

# 2014 SELECTION GUIDE

We deliver QUALITY, SPECIFICATION and PRICE at the same time.

March, 2014 V1




30x  
HD

30x  
FULL HD  
1080P

30x  
HD

30x  
FULL HD  
1080P

18x  
FULL HD  
1080P

18x  
FULL HD  
1080P

| Model                          | I91                                            | I92                                            | I93                                                                                                       | I94                                                                                                       | KCM-8111                                       | KCM-8211                                          |
|--------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------|
| Maximum Resolution             | 1MP                                            | 2MP                                            | 1MP                                                                                                       | 2MP                                                                                                       | 2MP                                            | 2MP                                               |
| Application Environment        | Indoor                                         | Indoor                                         | Outdoor                                                                                                   | Outdoor                                                                                                   | Indoor                                         | Outdoor                                           |
| Image Sensor                   | Progressive Scan CMOS                          | Progressive Scan CMOS                          | Progressive Scan CMOS                                                                                     | Progressive Scan CMOS                                                                                     | Progressive Scan CMOS                          | Progressive Scan CMOS                             |
| Day / Night                    | Yes                                            | Yes                                            | Yes                                                                                                       | Yes                                                                                                       | Yes                                            | Yes                                               |
| Superior Low Light Sensitivity | Yes                                            | Yes                                            | Yes                                                                                                       | Yes                                                                                                       | Yes                                            | Yes                                               |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0.05 lux at F1.6          | Color: 0.1 lux, B/W: 0.05 lux at F1.6          | Color: 0.1 lux, B/W: 0.05 lux at F1.6                                                                     | Color: 0.1 lux, B/W: 0.05 lux at F1.6                                                                     | Color: 0.1 lux, B/W: 0.05 lux at F1.6          | Color: 0.1 lux, B/W: 0.05 lux at F1.6             |
| Mechanical IR Cut Filter       | Yes                                            | Yes                                            | Yes                                                                                                       | Yes                                                                                                       | Yes                                            | Yes                                               |
| Lens                           | Zoom, f4.3-129mm / F1.6-5.0, DC iris           | Zoom, f4.3-129mm / F1.6-5.0, DC iris           | Zoom, f4.3-129mm / F1.6-5.0, DC iris                                                                      | Zoom, f4.3-129mm / F1.6-5.0, DC iris                                                                      | Zoom, f4.7-84.6mm / F1.6-2.8, DC iris          | Zoom, f4.7-84.6mm / F1.6-2.8, DC iris             |
| Zoom Ratio                     | 30x optical, 16x digital                       | 30x optical, 16x digital                       | 30x optical, 16x digital                                                                                  | 30x optical, 16x digital                                                                                  | 18x optical, 16x digital                       | 18x optical, 16x digital                          |
| Panning and Tilting Range      | Pan: 0°-360° (with Auto-flip)<br>Tilt: 0°-180° | Pan: 0°-360° (with Auto-flip)<br>Tilt: 0°-180° | Pan: 0°-360° (with Auto-flip)<br>Tilt: 0°-180°                                                            | Pan: 0°-360° (with Auto-flip)<br>Tilt: 0°-180°                                                            | Pan: 0°-360° (with Auto-flip)<br>Tilt: 0°-180° | Pan: 0°-360° (with Auto-flip)<br>Tilt: 0°-180°    |
| Lens Mount                     | Board mount                                    | Board mount                                    | Board mount                                                                                               | Board mount                                                                                               | Board mount                                    | Board mount                                       |
| Horizontal Viewing Angle       | 66.4°-2.68°                                    | 66.4°-2.68°                                    | 66.4°-2.68°                                                                                               | 66.4°-2.61°                                                                                               | 48.9°-3.6°                                     | 48.9°-3.6°                                        |
| Compression                    | H.264 High Profile<br>MJPEG                    | H.264 High Profile<br>MJPEG                    | H.264 High Profile<br>MJPEG                                                                               | H.264 High Profile<br>MJPEG                                                                               | H.264<br>MPEG-4 SP<br>MJPEG                    | H.264<br>MPEG-4 SP<br>MJPEG                       |
| Frame Rate vs. Resolution      | 30 fps at 1280 x 720                           | 30 fps at 1920 x 1080                          | 30 fps at 1280 x 720                                                                                      | 30 fps at 1920 x 1080                                                                                     | 15 fps at 1920 x 1080<br>30 fps at 1280 x 720  | 15 fps at 1920 x 1080<br>30 fps at 1280 x 720     |
| Multi-Streaming                | Dual streams                                   | Dual streams                                   | Dual streams                                                                                              | Dual streams                                                                                              | Dual streams                                   | Dual streams                                      |
| Wide Dynamic Range             | Extreme WDR (107 dB)                           | Extreme WDR (107 dB)                           | Extreme WDR (107 dB)                                                                                      | Extreme WDR (107 dB)                                                                                      | Advanced WDR (80 dB)                           | Advanced WDR (80 dB)                              |
| Digital Noise Reduction        | 2D+3D DNR                                      | 2D+3D DNR                                      | 2D+3D DNR                                                                                                 | 2D+3D DNR                                                                                                 | 2D+3D DNR                                      | 2D+3D DNR                                         |
| Audio                          | 2-way                                          | 2-way                                          | 2-way                                                                                                     | 2-way                                                                                                     | 2-way                                          | 2-way                                             |
| Digital Input/Output           | 2/2                                            | 2/2                                            | 4/2                                                                                                       | 4/2                                                                                                       | 2/2                                            | 2/2                                               |
| Local Storage                  | MicroSDHC/MicroSDXC<br>(card not included)     | MicroSDHC/MicroSDXC<br>(card not included)     | MicroSDHC/MicroSDXC<br>(card not included)                                                                | MicroSDHC/MicroSDXC<br>(card not included)                                                                | MicroSDHC<br>(card not included)               | No                                                |
| Power Source                   | DC 12V; High PoE                               | DC 12V; High PoE                               | AC 24V; High PoE                                                                                          | AC 24V; High PoE                                                                                          | DC 12V; High PoE                               | DC 12V; High PoE                                  |
| Environmental Casing           | Vandal Resistant (IK09)                        | Vandal Resistant (IK09)                        | Weatherproof (IP66); Vandal Proof casing (IK10);<br>Bundled dome cover (IK09); Optional dome cover (IK10) | Weatherproof (IP66); Vandal Proof casing (IK10);<br>Bundled dome cover (IK09); Optional dome cover (IK10) | Vandal Resistant (IK09)                        | Weatherproof (IP66)<br>Vandal proof (IK10)        |
| Other Value-Added Features     | Defogging<br>Advanced Image Stabilizer         | Defogging<br>Advanced Image Stabilizer         | Defogging<br>Advanced Image Stabilizer                                                                    | Defogging<br>Advanced Image Stabilizer                                                                    | Defogging                                      | Defogging                                         |
| ONVIF Compliant                | Yes                                            | Yes                                            | Yes                                                                                                       | Yes                                                                                                       | Yes                                            | Yes                                               |
| Starting Temperature           | -10°C ~ 50°C<br>(14°F ~ 122°F)                 | -10°C ~ 50°C<br>(14°F ~ 122°F)                 | -40°C ~ 50°C (-40°F ~ 122°F)<br>within 30 minutes                                                         | -40°C ~ 50°C (-40°F ~ 122°F)<br>within 30 minutes                                                         | -10°C ~ 45°C<br>(14°F ~ 113°F)                 | -30°C ~ 45°C (-22°F ~ 113°F)<br>within 30 minutes |
| Operating Temperature          | -10°C ~ 50°C<br>(14°F ~ 122°F)                 | -10°C ~ 50°C<br>(14°F ~ 122°F)                 | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                           | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                           | -10°C ~ 45°C<br>(14°F ~ 113°F)                 | -40°C ~ 45°C<br>(-40°F ~ 113°F)                   |
| Approvals                      | CE, FCC, IK09                                  | CE, FCC, IK09                                  | CE, FCC, IP66, IK09, NEMA 4X                                                                              | CE, FCC, IP66, IK09, NEMA 4X                                                                              | CE, FCC, IK09                                  | CE, FCC, IP66, IK10                               |

## Mini PTZ

## Speed Dome



10x  
HD



10x  
FULL HD  
1080P



10x  
FULL HD  
1080P



10x  
FULL HD  
1080P



30x  
HD



30x  
FULL HD  
1080P



36x

| Model                          | B94                                              | B95                                              | B96                                              | B97                                              | I95                                                                                                          | I96                                                                                                         | TCM-6630                                |
|--------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Maximum Resolution             | 1.3MP                                            | 2MP                                              | 5MP                                              | 3MP                                              | 1MP                                                                                                          | 2MP                                                                                                         | 0.35MP (D1)                             |
| Application Environment        | Outdoor                                          | Outdoor                                          | Outdoor                                          | Outdoor                                          | Outdoor                                                                                                      | Outdoor                                                                                                     | Outdoor                                 |
| Image Sensor                   | Progressive Scan CMOS                            | Progressive Scan CMOS                            | Progressive Scan CMOS                            | Progressive Scan CMOS                            | Progressive Scan CMOS                                                                                        | Progressive Scan CMOS                                                                                       | Interlaced Scan CCD                     |
| Day / Night                    | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                                                                                          | Yes                                                                                                         | Yes                                     |
| Superior Low Light Sensitivity | Yes                                              | Yes                                              | No                                               | No                                               | Yes                                                                                                          | Yes                                                                                                         | No                                      |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0.05 lux at F1.8            | Color: 0.1 lux, B/W: 0.05 lux at F1.8            | Color: 0.1 lux, B/W: 0.05 lux at F1.8            | Color: 0.1 lux, B/W: 0.05 lux at F1.8            | Color: 0.1 lux, B/W: 0.05 lux at F1.6                                                                        | Color: 0.1 lux, B/W: 0.05 lux at F1.6                                                                       | Color: 0.1 lux, B/W: 0.01 lux at F1.6   |
| Mechanical IR Cut Filter       | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                                                                                          | Yes                                                                                                         | Yes                                     |
| IR LED                         | No                                               | No                                               | No                                               | No                                               | No                                                                                                           | No                                                                                                          | No                                      |
| Lens                           | Zoom, f4.9-49mm / F1.8-3.0, DC iris              | Zoom, f4.9-49mm / F1.8-3.0, DC iris              | Zoom, f4.9-49mm / F1.8-3.0, DC iris              | Zoom, f4.9-49mm / F1.8-3.0, DC iris              | Zoom, f4.3-129mm / F1.6-5.0, DC iris                                                                         | Zoom, f4.3-129mm / F1.6-5.0, DC iris                                                                        | Zoom, f3.4-122.4mm / F1.6-4.5, DC iris  |
| Zoom Ratio                     | 10x optical                                      | 10x optical                                      | 10x optical                                      | 10x optical                                      | 30x optical, 16x digital                                                                                     | 30x optical, 16x digital                                                                                    | 36x optical, 12x digital                |
| Panning and Tilting Range      | Pan: 0°-350°<br>Tilt: 0°-180°                    | Pan: 0°-350°<br>Tilt: 0°-180°                    | Pan: 0°-350°<br>Tilt: 0°-180°                    | Pan: 0°-350°<br>Tilt: 0°-180°                    | Pan: 0°-360° endless<br>Tilt: 0°-180°                                                                        | Pan: 0°-360° endless<br>Tilt: 0°-180°                                                                       | Pan: 0°-360° endless<br>Tilt: -10°-190° |
| Lens Mount                     | Board mount                                      | Board mount                                      | Board mount                                      | Board mount                                      | Board mount                                                                                                  | Board mount                                                                                                 | Board mount                             |
| Horizontal Viewing Angle       | 52.1°-5.9°                                       | 57.8°-6.9°                                       | 49.7°-5.8°                                       | 49.6°-5.6°                                       | 66.4°-2.68°                                                                                                  | 66.4°-2.61°                                                                                                 | 57.8°-1.7°                              |
| Compression                    | H.264 High Profile<br>MJPEG                      | H.264 High Profile<br>MJPEG                      | H.264 High Profile<br>MJPEG                      | H.264 High Profile<br>MJPEG                      | H.264 High Profile<br>MJPEG                                                                                  | H.264 High Profile<br>MJPEG                                                                                 | H.264<br>MPEG-4 SP<br>MJPEG             |
| Frame Rate vs. Resolution      | 30 fps at 1280 x 960<br>60 fps at 1280 x 720     | 30 fps at 1920 x 1080                            | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080   | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080   | 30 fps at 1280 x 720                                                                                         | 30 fps at 1920 x 1080                                                                                       | 30 fps at 720 x 480                     |
| Multi-Streaming                | Dual streams                                     | Dual streams                                     | Dual streams                                     | Dual streams                                     | Dual streams                                                                                                 | Dual streams                                                                                                | Dual streams                            |
| Wide Dynamic Range             | Basic WDR (83.5 dB)                              | Basic WDR (72 dB)                                | Basic WDR (69 dB)                                | Superior WDR (107 dB)                            | Extreme WDR (107 dB)                                                                                         | Extreme WDR (107 dB)                                                                                        | Superior WDR                            |
| Digital Noise Reduction        | DNR                                              | DNR                                              | DNR                                              | DNR                                              | 2D+3D DNR                                                                                                    | 2D+3D DNR                                                                                                   | 2D+3D DNR                               |
| Audio                          | 2-way                                            | 2-way                                            | 2-way                                            | 2-way                                            | 2-way                                                                                                        | 2-way                                                                                                       | 2-way                                   |
| Digital Input/Output           | 1/1                                              | 1/1                                              | 1/1                                              | 1/1                                              | 4/2                                                                                                          | 4/2                                                                                                         | 8/1                                     |
| Local Storage                  | MicroSDHC/MicroSDXC<br>(card not included)       | MicroSDHC/MicroSDXC<br>(card not included)       | MicroSDHC/MicroSDXC<br>(card not included)       | MicroSDHC/MicroSDXC<br>(card not included)       | MicroSDHC/MicroSDXC<br>(card not included)                                                                   | MicroSDHC/MicroSDXC<br>(card not included)                                                                  | No                                      |
| Power Source                   | DC 12V; PoE Class 3                              | DC 12V; PoE Class 3                              | DC 12V; PoE Class 3                              | DC 12V; PoE Class 3                              | AC 24V; High PoE                                                                                             | AC 24V; High PoE                                                                                            | AC 24V                                  |
| Environmental Casing           | Weatherproof (IP66)<br>Vandal proof (IK10)       | Weatherproof (IP66)<br>Vandal proof (IK10)       | Weatherproof (IP66)<br>Vandal proof (IK10)       | Weatherproof (IP66)<br>Vandal proof (IK10)       | Weatherproof (IP66)<br>Vandal proof casing (IK10) Bundled<br>dome cover (IK09) Optional dome<br>cover (IK10) | Weatherproof (IP66)<br>Vandal proof casing (IK10) Bundled<br>dome cover (IK09)Optional dome<br>cover (IK10) | Weatherproof (IP66)                     |
| Other Value-Added Features     | -                                                | -                                                | -                                                | -                                                | Defogging<br>Advanced Image Stabilizer                                                                       | Defogging<br>Advanced Image Stabilizer                                                                      | -                                       |
| ONVIF Compliant                | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                                                                                          | Yes                                                                                                         | Yes                                     |
| Starting Temperature           | -20°C ~ 50°C<br>(-4°F ~ 122°F) within 30 minutes | -20°C ~ 50°C<br>(-4°F ~ 122°F) within 30 minutes | -20°C ~ 50°C<br>(-4°F ~ 122°F) within 30 minutes | -20°C ~ 50°C<br>(-4°F ~ 122°F) within 30 minutes | -40°C ~ 50°C<br>(-40°F ~ 122°F) within 30 minutes                                                            | -40°C ~ 50°C<br>(-40°F ~ 122°F) within 30 minutes                                                           | -45°C ~ 50°C<br>(-49°F ~ 122°F)         |
| Operating Temperature          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                   | -20°C ~ 50°C<br>(-4°F ~ 122°F)                   | -20°C ~ 50°C<br>(-4°F ~ 122°F)                   | -20°C ~ 50°C<br>(-4°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                              | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                             | -45°C ~ 50°C<br>(-49°F ~ 122°F)         |
| Approvals                      | CE, FCC, IP66, NEMA 4X                           | CE, FCC, IP66, NEMA 4X                           | CE, FCC, IP66, NEMA 4X                           | CE, FCC, IP66, NEMA 4X                           | CE, FCC, IP66, IK09, NEMA 4X                                                                                 | CE, FCC, IP66, IK09, NEMA 4X                                                                                | CE, FCC, IP66                           |

## Indoor Zoom Dome with WDR



## Outdoor Zoom Dome with WDR



## Hemispheric Dome with WDR



| Model                          | B61                                              | B64                                              | B65                                              | B67                                              | KCM-3311                                         | B81                                                  | B84                                                  | B85                                                  | B87                                                  | KCM-7311                                            | KCM-3911                                                                                      | KCM-7911                                      |
|--------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------|
| Maximum Resolution             | 5MP                                              | 1.3MP                                            | 2MP                                              | 3MP                                              | 4MP                                              | 5MP                                                  | 1.3MP                                                | 2MP                                                  | 3MP                                                  | 4MP                                                 | 4MP                                                                                           | 4MP                                           |
| Application Environment        | Indoor                                           | Indoor                                           | Indoor                                           | Indoor                                           | Indoor                                           | Outdoor                                              | Outdoor                                              | Outdoor                                              | Outdoor                                              | Outdoor                                             | Indoor                                                                                        | Outdoor                                       |
| Image Sensor                   | Progressive Scan CMOS                            | Progressive Scan CMOS                            | Progressive Scan CMOS                            | Progressive Scan CMOS                            | Progressive Scan CMOS                            | Progressive Scan CMOS                                | Progressive Scan CMOS                                | Progressive Scan CMOS                                | Progressive Scan CMOS                                | Progressive Scan CMOS                               | Progressive Scan CMOS                                                                         | Progressive Scan CMOS                         |
| Day / Night                    | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                                  | Yes                                                  | Yes                                                  | Yes                                                  | Yes                                                 | Yes                                                                                           | Yes                                           |
| Superior low Light Sensitivity | No                                               | Yes                                              | Yes                                              | No                                               | Yes                                              | No                                                   | Yes                                                  | Yes                                                  | No                                                   | Yes                                                 | Yes                                                                                           | Yes                                           |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2   | Color: 0.1 lux, B/W: 0.05 lux at F1.4            | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2       | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2       | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2       | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2       | Color: 0.1 lux, B/W: 0.05 lux at F1.4               | Color: 1.63 lux, B/W: 0.06 lux at F2.8                                                        | Color: 1.63 lux, B/W: 0.06 lux at F2.8        |
| Mechanical IR Cut Filter       | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                                  | Yes                                                  | Yes                                                  | Yes                                                  | Yes                                                 | Yes                                                                                           | Yes                                           |
| IR LED                         | Yes (Adaptive)                                   | Yes (Adaptive)                                   | Yes (Adaptive)                                   | Yes (Adaptive)                                   | No                                               | Yes (Adaptive)                                       | Yes (Adaptive)                                       | Yes (Adaptive)                                       | Yes (Adaptive)                                       | No                                                  | No                                                                                            | No                                            |
| Lens                           | Zoom, f3-9mm / F1.2-2.1, DC iris                 | Zoom, f3-9mm / F1.2-2.1, DC iris                 | Zoom, f3-9mm / F1.2-2.1, DC iris                 | Zoom, f3-9mm / F1.2-2.1, DC iris                 | Zoom, f3.3-12mm / F1.4-2.9, P-Iris               | Zoom, f3-9mm / F1.2-2.1, DC iris                     | Zoom, f3-9mm / F1.2-2.1, DC iris                     | Zoom, f3-9mm / F1.2-2.1, DC iris                     | Zoom, f3-9mm / F1.2-2.1, DC iris                     | Zoom, f3.3-12mm / F1.4-2.9, P-iris                  | Fisheye, 1.05mm / F2.8, Fixed iris                                                            | Fisheye, 1.05mm / F2.8, Fixed iris            |
| Zoom Ratio                     | 3x optical                                       | 3x optical                                       | 3x optical                                       | 3x optical                                       | 3.6x optical                                     | 3x optical                                           | 3x optical                                           | 3x optical                                           | 3x optical                                           | 3.6x optical                                        | -                                                                                             | -                                             |
| Viewing Angle Adjustment       | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 0°-180°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350°     | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350°     | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350°     | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350°     | Pan: 0°-350°<br>Tilt: 0°-180°<br>Rotate: 0°-350°    | -                                                                                             | -                                             |
| Lens Mount                     | Board mount                                      | Board mount                                      | Board mount                                      | Board mount                                      | Board mount                                      | Board mount                                          | Board mount                                          | Board mount                                          | Board mount                                          | Board mount                                         | Board mount                                                                                   | Board mount                                   |
| Horizontal Viewing Angle       | 85.7°-30.5°                                      | 90.6°-31.8°                                      | 103.6°-36.2°                                     | 84.5°-29.8°                                      | 77.2°-22.6°                                      | 85.7°-30.5°                                          | 90.6°-31.8°                                          | 103.6°-36.2°                                         | 84.5°-29.8°                                          | 77.2°-22.6°                                         | 180°                                                                                          | 180°                                          |
| Compression                    | H.264 High Profile MJPEG                         | H.264 High Profile MJPEG                         | H.264 High Profile MJPEG                         | H.264 High Profile MJPEG                         | H.264 MPEG-4 SP MJPEG                            | H.264 High Profile MJPEG                             | H.264 High Profile MJPEG                             | H.264 High Profile MJPEG                             | H.264 High Profile MJPEG                             | H.264 MPEG-4 SP MJPEG                               | H.264 MPEG-4 SP MJPEG                                                                         | H.264 MPEG-4 SP MJPEG                         |
| Frame Rate vs. Resolution      | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080   | 30 fps at 1280 x 960<br>60 fps at 1280 x 720     | 30 fps at 1920 x 1080                            | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080   | 8 fps at 2032 x 1920<br>30 fps at 1280 x 720     | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080       | 30 fps at 1280 x 960<br>60 fps at 1280 x 720         | 30 fps at 1920 x 1080                                | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080       | 8 fps at 2032 x 1920<br>30 fps at 1280 x 720        | 6 fps at 2032 x 1920<br>12 fps at 1920 x 1080                                                 | 6 fps at 2032 x 1920<br>12 fps at 1920 x 1080 |
| View Mode                      | -                                                | -                                                | -                                                | -                                                | -                                                | -                                                    | -                                                    | -                                                    | -                                                    | -                                                   | Fisheye View;<br>Dewarped View: 180° / 360° Panorama,<br>ePTZ, 6 VGA, Motion Detection Preset |                                               |
| Multi-Streaming                | Dual streams                                     | Dual streams                                     | Dual streams                                     | Dual streams                                     | Dual streams                                     | Dual streams                                         | Dual streams                                         | Dual streams                                         | Dual streams                                         | Dual streams                                        | Dual streams                                                                                  | Dual streams                                  |
| Wide Dynamic Range             | Basic WDR (69 dB)                                | Basic WDR (83.5 dB)                              | Basic WDR (72 dB)                                | Superior WDR (107 dB)                            | Advanced WDR (80 dB)                             | Basic WDR (69 dB)                                    | Basic WDR (83.5 dB)                                  | Basic WDR (72 dB)                                    | Superior WDR (107 dB)                                | Advanced WDR (80 dB)                                | Advanced WDR (80 dB)                                                                          | Advanced WDR (80 dB)                          |
| Digital Noise Reduction        | DNR                                              | DNR                                              | DNR                                              | DNR                                              | 2D+3D DNR                                        | DNR                                                  | DNR                                                  | DNR                                                  | DNR                                                  | 2D+3D DNR                                           | 2D+3D DNR                                                                                     | 2D+3D DNR                                     |
| Audio                          | 2-way                                            | 2-way                                            | 2-way                                            | 2-way                                            | No                                               | 2-way                                                | 2-way                                                | 2-way                                                | 2-way                                                | 2-way                                               | 2-way                                                                                         | 2-way                                         |
| Digital Input/Output           | 2/2                                              | 2/2                                              | 2/2                                              | 2/2                                              | No                                               | 2/2                                                  | 2/2                                                  | 2/2                                                  | 2/2                                                  | 2/2                                                 | 2/2                                                                                           | 2/2                                           |
| Local Storage                  | MicroSDHC/MicroSDXC (card not included)          | MicroSDHC/MicroSDXC (card not included)          | MicroSDHC/MicroSDXC (card not included)          | MicroSDHC/MicroSDXC (card not included)          | No                                               | MicroSDHC/MicroSDXC (card not included)              | MicroSDHC/MicroSDXC (card not included)              | MicroSDHC/MicroSDXC (card not included)              | MicroSDHC/MicroSDXC (card not included)              | MicroSDHC (card not included)                       | MicroSDHC (card not included)                                                                 | MicroSDHC (card not included)                 |
| Power Source                   | DC 12V; PoE Class 3                              | DC 12V; PoE Class 3                              | DC 12V; PoE Class 3                              | DC 12V; PoE Class 3                              | PoE Class 3                                      | DC 12V; PoE Class 3                                  | DC 12V; PoE Class 3                                  | DC 12V; PoE Class 3                                  | DC 12V; PoE Class 3                                  | DC 12V; PoE Class 3                                 | DC 12V; PoE Class 3                                                                           | DC 12V; PoE Class 3                           |
| Environmental Casing           | Vandal Resistant (IK09)                          | Vandal Resistant (IK09)                          | Vandal Resistant (IK09)                          | Vandal Resistant (IK09)                          | No                                               | Weatherproof (IP66)<br>Vandal proof (IK10)           | Weatherproof (IP66)<br>Vandal proof (IK10)           | Weatherproof (IP66)<br>Vandal proof (IK10)           | Weatherproof (IP66)<br>Vandal proof (IK10)           | Weatherproof (IP66)<br>Vandal proof                 | No                                                                                            | Weatherproof (IP66)                           |
| Other Value-Added Features     | -                                                | -                                                | -                                                | -                                                | Defogging                                        | -                                                    | -                                                    | -                                                    | -                                                    | Defogging                                           | Defogging                                                                                     | Defogging                                     |
| ONVIF Compliant                | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                              | Yes                                                  | Yes                                                  | Yes                                                  | Yes                                                  | Yes                                                 | Yes                                                                                           | Yes                                           |
| Starting Temperature           | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)<br>within 30 minutes | -40°C ~ 50°C<br>(-40°F ~ 122°F)<br>within 30 minutes | -40°C ~ 50°C<br>(-40°F ~ 122°F)<br>within 30 minutes | -40°C ~ 50°C<br>(-40°F ~ 122°F)<br>within 30 minutes | -10°C ~ 50°C<br>(14°F ~ 122°F)<br>within 30 minutes | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                | -20°C ~ 50°C<br>(-22°F ~ 122°F)               |
| Operating Temperature          | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                      | -40°C ~ 50°C<br>(-40°F ~ 122°F)                      | -40°C ~ 50°C<br>(-40°F ~ 122°F)                      | -40°C ~ 50°C<br>(-40°F ~ 122°F)                      | -30°C ~ 50°C<br>(-22°F ~ 122°F)                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                | -40°C ~ 50°C<br>(-22°F ~ 122°F)               |
| Approvals                      | CE, FCC, IK09                                    | CE, FCC, IK09                                    | CE, FCC, IK09                                    | CE, FCC, IK09                                    | CE, FCC                                          | CE, FCC, IP66, IK10, NEMA 4X                         | CE, FCC, IP66, IK10, NEMA 4X                         | CE, FCC, IP66, IK10, NEMA 4X                         | CE, FCC, IP66, IK10, NEMA 4X                         | CE, FCC, IP66                                       | CE, FCC                                                                                       | CE, FCC, IP66                                 |

|                                | Vari-Focal Outdoor Dome                                                                    |                                                                                                       |                                                                                            | Vari-Focal Outdoor Dome with WDR                                                           |                                                                                                         |                                                                                                         |                                                                                                         |                                                                                              |                                                                                                         |                                                                                              |                                                                                                         |
|--------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                |  <b>HD</b> |  <b>FULL HD 1080P</b> |  <b>HD</b> |  <b>HD</b> |  <b>FULL HD 1080P</b> |  <b>FULL HD 1080P</b> |  <b>FULL HD 1080P</b> |  <b>HD</b> |  <b>FULL HD 1080P</b> |  <b>HD</b> |  <b>FULL HD 1080P</b> |
| Model                          | D81                                                                                        | D82                                                                                                   | ACM-7411                                                                                   | E81                                                                                        | E82                                                                                                     | E83                                                                                                     | E84                                                                                                     | E85                                                                                          | E86                                                                                                     | E88                                                                                          | E89                                                                                                     |
| Maximum Resolution             | 1MP                                                                                        | 3MP                                                                                                   | 1.3MP                                                                                      | 1MP                                                                                        | 3MP                                                                                                     | 5MP                                                                                                     | 2MP                                                                                                     | 1MP                                                                                          | 3MP                                                                                                     | 1.3MP                                                                                        | 10MP                                                                                                    |
| Application Environment        | Outdoor                                                                                    | Outdoor                                                                                               | Outdoor                                                                                    | Outdoor                                                                                    | Outdoor                                                                                                 | Outdoor                                                                                                 | Outdoor                                                                                                 | Outdoor                                                                                      | Outdoor                                                                                                 | Outdoor                                                                                      | Outdoor                                                                                                 |
| Image Sensor                   | Progressive Scan CMOS                                                                      | Progressive Scan CMOS                                                                                 | Progressive Scan CMOS                                                                      | Progressive Scan CMOS                                                                      | Progressive Scan CMOS                                                                                   | Progressive Scan CMOS                                                                                   | Progressive Scan CMOS                                                                                   | Progressive Scan CMOS                                                                        | Progressive Scan CMOS                                                                                   | Progressive Scan CMOS                                                                        | Progressive Scan CMOS                                                                                   |
| Day / Night                    | Yes                                                                                        | Yes                                                                                                   | Yes                                                                                        | Yes                                                                                        | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     |
| Superior Low Light Sensitivity | No                                                                                         | No                                                                                                    | No                                                                                         | No                                                                                         | No                                                                                                      | No                                                                                                      | Yes                                                                                                     | No                                                                                           | No                                                                                                      | Yes                                                                                          | No                                                                                                      |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                             | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                                        | Color: 0.5 lux, B/W: 0.05 lux at F1.0                                                      | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                             | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                                          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                                          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                                          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                               | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                                          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                               | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                                          |
| Mechanical IR Cut Filter       | Yes                                                                                        | Yes                                                                                                   | Yes                                                                                        | Yes                                                                                        | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     |
| IR LED                         | Yes                                                                                        | Yes                                                                                                   | No                                                                                         | Yes                                                                                        | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     | Yes                                                                                          | Yes (Adaptive)                                                                                          |
| Lens                           | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                   | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                              | Vari-focal, f3.3-12mm / F1.6, Fixed iris                                                   | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                   | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                     | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                     | Vari-focal, f3.1-13.3mm / F1.4, Fixed iris                                                              |
| Viewing Angle Adjustment       | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                          | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                                     | Pan: 0°-350°<br>Tilt: 0°-180°<br>Rotate: 0°-350°                                           | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                          | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                                       | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                                       | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                                       | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                            | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                                       | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                            | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350°                                                        |
| Lens Mount                     | Board mount                                                                                | Board mount                                                                                           | Board mount                                                                                | Board mount                                                                                | Board mount                                                                                             | Board mount                                                                                             | Board mount                                                                                             | Board mount                                                                                  | Board mount                                                                                             | Board mount                                                                                  | Board mount                                                                                             |
| Horizontal Viewing Angle       | 59.8°-24.7°                                                                                | 70.5°-28.2°                                                                                           | 83.0°-23.8°                                                                                | 59.8°-24.7°                                                                                | 70.5°-28.2°                                                                                             | 69.2°-28.2°                                                                                             | 92.5°-35.9°                                                                                             | 60.1°-24.3°                                                                                  | 70.5°-28.8°                                                                                             | 83.0°-31.1°                                                                                  | 100.5°-25.8°                                                                                            |
| Compression                    | H.264 High Profile MJPEG                                                                   | H.264 High Profile MJPEG                                                                              | MPEG-4 SP MJPEG                                                                            | H.264 High Profile MJPEG                                                                   | H.264 High Profile MJPEG                                                                                | H.264 High Profile MJPEG                                                                                | H.264 High Profile MJPEG                                                                                | H.264 High Profile MJPEG                                                                     | H.264 High Profile MJPEG                                                                                | H.264 High Profile MJPEG                                                                     | H.264 High Profile MJPEG                                                                                |
| Frame Rate vs. Resolution      | 30 fps at 1280 x 720                                                                       | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                        | 8 fps at 1280 x 1024<br>30 fps at 640 x 480                                                | 30 fps at 1280 x 720                                                                       | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                          | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                                          | 30 fps at 1920 x 1080                                                                                   | 30 fps at 1280 x 720                                                                         | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                          | 30 fps at 1280 x 960<br>60 fps at 1280 x 720                                                 | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080                                                           |
| Multi-Streaming                | Dual streams                                                                               | Dual streams                                                                                          | Single streams                                                                             | Dual streams                                                                               | Dual streams                                                                                            | Dual streams                                                                                            | Dual streams                                                                                            | Dual streams                                                                                 | Dual streams                                                                                            | Dual streams                                                                                 | Dual streams                                                                                            |
| Wide Dynamic Range             | No                                                                                         | No                                                                                                    | No                                                                                         | Basic WDR (69 dB)                                                                          | Basic WDR (69 dB)                                                                                       | Basic WDR (69 dB)                                                                                       | Basic WDR (72 dB)                                                                                       | Superior WDR (107 dB)                                                                        | Superior WDR (107 dB)                                                                                   | Basic WDR (83.5 dB)                                                                          | Basic WDR (65.2 dB)                                                                                     |
| Digital Noise Reduction        | DNR                                                                                        | DNR                                                                                                   | No                                                                                         | DNR                                                                                        | DNR                                                                                                     | DNR                                                                                                     | DNR                                                                                                     | DNR                                                                                          | DNR                                                                                                     | DNR                                                                                          | DNR                                                                                                     |
| Audio                          | No                                                                                         | No                                                                                                    | 2-way                                                                                      | No                                                                                         | No                                                                                                      | No                                                                                                      | No                                                                                                      | No                                                                                           | No                                                                                                      | 2-way                                                                                        | 2-way                                                                                                   |
| Digital Input/Output           | No                                                                                         | No                                                                                                    | 1/1                                                                                        | No                                                                                         | No                                                                                                      | No                                                                                                      | No                                                                                                      | No                                                                                           | No                                                                                                      | 1/1                                                                                          | 2/2                                                                                                     |
| Local Storage                  | MicroSDHC/MicroSDXC (card not included)                                                    | MicroSDHC/MicroSDXC (card not included)                                                               | No                                                                                         | MicroSDHC/MicroSDXC (card not included)                                                    | MicroSDHC/MicroSDXC (card not included)                                                                 | MicroSDHC/MicroSDXC (card not included)                                                                 | MicroSDHC/MicroSDXC (card not included)                                                                 | MicroSDHC/MicroSDXC (card not included)                                                      | MicroSDHC/MicroSDXC (card not included)                                                                 | MicroSDHC/MicroSDXC (card not included)                                                      | MicroSDHC/MicroSDXC (card not included)                                                                 |
| Power Source                   | PoE Class 2                                                                                | PoE Class 2                                                                                           | DC 12V; PoE Class 3                                                                        | PoE Class 2                                                                                | PoE Class 2                                                                                             | PoE Class 2                                                                                             | PoE Class 2                                                                                             | PoE Class 2                                                                                  | PoE Class 2                                                                                             | PoE Class 2                                                                                  | PoE Class 2                                                                                             |
| Environmental Casing           | Weatherproof (IP66)<br>Vandal proof (IK10)                                                 | Weatherproof (IP66)<br>Vandal proof (IK10)                                                            | Weatherproof (IP66)<br>Vandal proof                                                        | Weatherproof (IP66)<br>Vandal proof (IK10)                                                 | Weatherproof (IP66)<br>Vandal proof (IK10)                                                              | Weatherproof (IP66)<br>Vandal proof (IK10)                                                              | Weatherproof (IP66)<br>Vandal proof (IK10)                                                              | Weatherproof (IP66)<br>Vandal proof (IK10)                                                   | Weatherproof (IP66)<br>Vandal proof (IK10)                                                              | Weatherproof (IP66)<br>Vandal proof (IK10)                                                   | Weatherproof (IP66)<br>Vandal proof (IK10)                                                              |
| ONVIF Compliant                | Yes                                                                                        | Yes                                                                                                   | No                                                                                         | Yes                                                                                        | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     |
| Starting Temperature           | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                             | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                        | -30°C ~ 50°C<br>(-22°F ~ 122°F)                                                            | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                             | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                               | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                               | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          |
| Operating Temperature          | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                            | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                       | -30°C ~ 50°C<br>(-22°F ~ 122°F)                                                            | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                            | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                              | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                              | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         |
| Approvals                      | CE, FCC, IP66, IK10                                                                        | CE, FCC, IP66, IK10                                                                                   | CE, FCC, IP66                                                                              | CE, FCC, IP66, IK10                                                                        | CE, FCC, IP66, IK10                                                                                     | CE, FCC, IP66, IK10                                                                                     | CE, FCC, IP66, IK10                                                                                     | CE, FCC, IP66, IK10                                                                          | CE, FCC, IP66, IK10                                                                                     | CE, FCC, IP66, IK10, NEMA 4X                                                                 | CE, FCC, IP66, IK10, NEMA 4X                                                                            |

## Fixed Outdoor Dome



HD



FULL HD 1080P



FULL HD 1080P



HD



FULL HD 1080P



FULL HD 1080P



FULL HD 1080P



HD



FULL HD 1080P



FULL HD 1080P

## Fixed Outdoor Dome with WDR

| Model                          | D71                                               | D72                                               | KCM-7111                                         | E71                                               | E72                                               | E73                                               | E74                                               | E75                                               | E76                                               | E77                                               |
|--------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Maximum Resolution             | 1MP                                               | 3MP                                               | 4MP                                              | 1MP                                               | 3MP                                               | 5MP                                               | 3MP                                               | 1.3MP                                             | 2MP                                               | 10MP                                              |
| Application Environment        | Outdoor                                           | Outdoor                                           | Outdoor                                          | Outdoor                                           | Outdoor                                           | Outdoor                                           | Outdoor                                           | Outdoor                                           | Outdoor                                           | Outdoor                                           |
| Image Sensor                   | Progressive Scan CMOS                             | Progressive Scan CMOS                             | Progressive Scan CMOS                            | Progressive Scan CMOS                             | Progressive Scan CMOS                             | Progressive Scan CMOS                             | Progressive Scan CMOS                             | Progressive Scan CMOS                             | Progressive Scan CMOS                             | Progressive Scan CMOS                             |
| Day / Night                    | Yes                                               | Yes                                               | Yes                                              | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               |
| Superior Low Light Sensitivity | No                                                | No                                                | Yes                                              | No                                                | No                                                | No                                                | No                                                | Yes                                               | Yes                                               | No                                                |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0    | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0    | Color: 0.1 lux, B/W: 0.05 lux at F2.0            | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0    | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0    | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0    | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0    | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.85   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.85   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8    |
| Mechanical IR Cut Filter       | Yes                                               | Yes                                               | Yes                                              | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               |
| IR LED                         | Yes                                               | Yes                                               | No                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               |
| Lens                           | Fixed focal, f2.93mm / F2.0, Fixed iris           | Fixed focal, f2.93mm / F2.0, Fixed iris           | Fixed focal, f2.8mm / F2.0, Fixed iris           | Fixed focal, f2.93mm / F2.0, Fixed iris           | Fixed focal, f2.93mm / F2.0, Fixed iris           | Fixed focal, f2.93mm / F2.0, Fixed iris           | Fixed focal, f2.93mm / F2.0, Fixed iris           | Fixed focal, f3.6mm / F1.85, Fixed iris           | Fixed focal, f3.6mm / F1.85, Fixed iris           | Fixed focal, f3.6mm / F1.8, Fixed iris            |
| Viewing Angle Adjustment       | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 0°-180°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350° |
| Lens Mount                     | Board mount                                       | Board mount                                       | CS mount                                         | Board mount                                       | Board mount                                       | Board mount                                       | Board mount                                       | Board mount                                       | Board mount                                       | Board mount                                       |
| Horizontal Viewing Angle       | 72.0°                                             | 83.3°                                             | 82.6°                                            | 72.0°                                             | 83.3°                                             | 82.3°                                             | 85.7°                                             | 77.9°                                             | 87.5°                                             | 101.4°                                            |
| Compression                    | H.264 High Profile MJPEG                          | H.264 High Profile MJPEG                          | H.264 MPEG-4 SP MJPEG                            | H.264 High Profile MJPEG                          | H.264 High Profile MJPEG                          | H.264 High Profile MJPEG                          | H.264 High Profile MJPEG                          | H.264 High Profile MJPEG                          | H.264 High Profile MJPEG                          | H.264 High Profile MJPEG                          |
| Frame Rate vs. Resolution      | 30 fps at 1280 x 720                              | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080    | 8 fps at 2032 x 1920<br>30 fps at 1280 x 720     | 30 fps at 1280 x 720                              | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080    | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080    | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080    | 30 fps at 1280 x 960<br>60 fps at 1280 x 720      | 30 fps at 1920 x 1080                             | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080     |
| Multi-Streaming                | Dual streams                                      | Dual streams                                      | Dual streams                                     | Dual streams                                      | Dual streams                                      | Dual streams                                      | Dual streams                                      | Dual streams                                      | Dual streams                                      | Dual streams                                      |
| Wide Dynamic Range             | No                                                | No                                                | No                                               | Basic WDR (69 dB)                                 | Basic WDR (69 dB)                                 | Basic WDR (69 dB)                                 | Superior WDR (107 dB)                             | Basic WDR (83.5 dB)                               | Basic WDR (72 dB)                                 | Basic WDR (65.2 dB)                               |
| Digital Noise Reduction        | DNR                                               | DNR                                               | DNR                                              | DNR                                               | DNR                                               | DNR                                               | DNR                                               | DNR                                               | DNR                                               | DNR                                               |
| Audio                          | No                                                | No                                                | 2-way                                            | No                                                | No                                                | No                                                | No                                                | 2-way                                             | 2-way                                             | 2-way                                             |
| Digital Input/Output           | No                                                | No                                                | 2/2                                              | No                                                | No                                                | No                                                | No                                                | 1/1                                               | 1/1                                               | 1/1                                               |
| Local Storage                  | MicroSDHC/MicroSDXC (card not included)           | MicroSDHC/MicroSDXC (card not included)           | MicroSDHC (card not included)                    | MicroSDHC/MicroSDXC (card not included)           | MicroSDHC/MicroSDXC (card not included)           | MicroSDHC/MicroSDXC (card not included)           | MicroSDHC/MicroSDXC (card not included)           | MicroSDHC/MicroSDXC (card not included)           | MicroSDHC/MicroSDXC (card not included)           | MicroSDHC/MicroSDXC (card not included)           |
| Power Source                   | PoE Class 2                                       | PoE Class 2                                       | DC 12V; PoE Class 3                              | PoE Class 2                                       | PoE Class 2                                       | PoE Class 2                                       | PoE Class 2                                       | PoE Class 2                                       | PoE Class 2                                       | PoE Class 2                                       |
| Environmental Casing           | Weatherproof (IP66)<br>Vandal proof (IK10)        | Weatherproof (IP66)<br>Vandal proof (IK10)        | Weatherproof (IP66)<br>Vandal proof              | Weatherproof (IP66)<br>Vandal proof (IK10)        | Weatherproof (IP66)<br>Vandal proof (IK10)        | Weatherproof (IP66)<br>Vandal proof (IK10)        | Weatherproof (IP66)<br>Vandal proof (IK10)        | Weatherproof (IP66)<br>Vandal proof (IK10)        | Weatherproof (IP66)<br>Vandal proof (IK10)        | Weatherproof (IP66)<br>Vandal proof (IK10)        |
| ONVIF Compliant                | Yes                                               | Yes                                               | Yes                                              | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               | Yes                                               |
| Starting Temperature           | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    | -30°C ~ 50°C<br>(-22°F ~ 122°F)                  | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    | -20°C ~ 50°C<br>(-4°F ~ 122°F)                    |
| Operating Temperature          | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   | -30°C ~ 50°C<br>(-22°F ~ 122°F)                  | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   | -40°C ~ 50°C<br>(-40°F ~ 122°F)                   |
| Approvals                      | CE, FCC, IP66, IK10                               | CE, FCC, IP66, IK10                               | CE, FCC, IP66                                    | CE, FCC, IP66, IK10                               | CE, FCC, IP66, IK10                               | CE, FCC, IP66, IK10                               | CE, FCC, IP66, IK10                               | CE, FCC, IP66, IK10, NEMA 4X                      | CE, FCC, IP66, IK10, NEMA 4X                      | CE, FCC, IP66, IK10, NEMA 4X                      |

|  | Fixed Indoor Dome with WDR                                                       |                                                                                  |                                                                                  | Indoor Fisheye Dome with WDR                                                      |                                                                                    | Vari-Focal Indoor Dome                                                             |                                                                                    |                                                                                    |                                                                                    |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                 |  |  |  |  |  |  |  |  |  |
| Model                                                                           | B51                                                                              | B52                                                                              | B53                                                                              | B55                                                                               | B56                                                                                | D61                                                                                | D62                                                                                | D64                                                                                | D65                                                                                |
| Maximum Resolution                                                              | 5MP                                                                              | 10MP                                                                             | 3MP                                                                              | 10MP                                                                              | 3MP                                                                                | 1.3MP                                                                              | 2MP                                                                                | 1MP                                                                                | 3MP                                                                                |
| Application Environment                                                         | Indoor                                                                           | Indoor                                                                           | Indoor                                                                           | Indoor                                                                            | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             |
| Image Sensor                                                                    | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                             | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              |
| Day / Night                                                                     | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                               | Yes                                                                                | No                                                                                 | No                                                                                 | Yes                                                                                | Yes                                                                                |
| Superior Low Light Sensitivity                                                  | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | Yes                                                                                | Yes                                                                                | No                                                                                 | No                                                                                 |
| Minimum Illumination                                                            | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.8                                   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.2                                   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.8                                   | Color: 0.1 lux, B/W: 0.05 lux at F2.0                                             | Color: 0.1 lux, B/W: 0.05 lux at F2.0                                              | Color: 0.1 lux at F1.4                                                             | Color: 0.1 lux at F1.4                                                             | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                     | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                     |
| Mechanical IR Cut Filter                                                        | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                               | Yes                                                                                | No                                                                                 | No                                                                                 | Yes                                                                                | Yes                                                                                |
| IR LED                                                                          | Yes (Adaptive)                                                                   | Yes (Adaptive)                                                                   | Yes (Adaptive)                                                                   | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | Yes                                                                                | Yes                                                                                |
| Lens                                                                            | Fixed focal, f1.9mm / F2.8<br>Fixed iris                                         | Fixed focal, f3.6mm / F1.8<br>Fixed iris                                         | Fixed focal, f1.9mm / F2.8<br>Fixed iris                                         | Fixed focal, f1.37mm / F2.0<br>Fixed iris                                         | Fixed focal, f1.19mm / F2.0<br>Fixed iris                                          | Vari-focal, f2.8-12mm / F1.4<br>Fixed iris                                         | Vari-focal, f2.8-12mm / F1.4<br>Fixed iris                                         | Vari-focal, f2.8-12mm / F1.4<br>Fixed iris                                         | Vari-focal, f2.8-12mm / F1.4<br>Fixed iris                                         |
| Viewing Angle Adjustment                                                        | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                | -                                                                                 | -                                                                                  | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  |
| Lens Mount                                                                      | Board mount                                                                      | Board mount                                                                      | Board mount                                                                      | Board mount                                                                       | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        |
| Horizontal Viewing Angle                                                        | 129.56° (overview area)<br>79.0° (high detail area)                              | 102°                                                                             | 129.56° (overview area)<br>79.0° (high detail area)                              | 180° (overview area)<br>109.8° (high detail area)                                 | 180° (overview area)<br>109.8° (high detail area)                                  | 83.0°-31.1°                                                                        | 92.5°-35.9°                                                                        | 59.8°-24.7°                                                                        | 70.5°-28.2°                                                                        |
| Compression                                                                     | H.264 High Profile<br>MJPEG                                                      | H.264 High Profile<br>MJPEG                                                      | H.264 High Profile<br>MJPEG                                                      | H.264 High Profile<br>MJPEG                                                       | H.264 High Profile<br>MJPEG                                                        | H.264 High Profile<br>MJPEG                                                        | H.264 High Profile<br>MJPEG                                                        | H.264 High Profile<br>MJPEG                                                        | H.264 High Profile<br>MJPEG                                                        |
| Frame Rate vs. Resolution                                                       | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                   | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080                                    | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                   | 6 fps at 3648 x 2736                                                              | 15 fps at 2048 x 1536                                                              | 30 fps at 1280 x 960<br>60 fps at 1280 x 720                                       | 30 fps at 1920 x 1080                                                              | 30 fps at 1280 x 720                                                               | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                     |
| View Mode                                                                       | -                                                                                | -                                                                                | -                                                                                | Fisheye View                                                                      | Fisheye View                                                                       | -                                                                                  | -                                                                                  | -                                                                                  | -                                                                                  |
| Multi-Streaming                                                                 | Dual streams                                                                     | Dual streams                                                                     | Dual streams                                                                     | Dual streams                                                                      | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       |
| Wide Dynamic Range                                                              | Basic WDR (69 dB)                                                                | Basic WDR (65.2 dB)                                                              | Superior WDR (107 dB)                                                            | Basic WDR (65.2 dB)                                                               | Superior WDR (107 dB)                                                              | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| Digital Noise Reduction                                                         | DNR                                                                              | DNR                                                                              | DNR                                                                              | DNR                                                                               | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                |
| Audio                                                                           | 2-way                                                                            | 2-way                                                                            | 2-way                                                                            | 2-way                                                                             | 2-way                                                                              | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| Digital Input/Output                                                            | 1/1                                                                              | 1/1                                                                              | 1/1                                                                              | 1/1                                                                               | 1/1                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| Local Storage                                                                   | MicroSDHC/MicroSDXC<br>(card not included)                                       | MicroSDHC/MicroSDXC<br>(card not included)                                       | MicroSDHC/MicroSDXC<br>(card not included)                                       | MicroSDHC/MicroSDXC<br>(card not included)                                        | MicroSDHC/MicroSDXC<br>(card not included)                                         | MicroSDHC/MicroSDXC<br>(card not included)                                         | MicroSDHC/MicroSDXC<br>(card not included)                                         | MicroSDHC/MicroSDXC<br>(card not included)                                         | MicroSDHC/MicroSDXC<br>(card not included)                                         |
| Power Source                                                                    | DC 12V; PoE Class 2                                                              | DC 12V; PoE Class 2                                                              | DC 12V; PoE Class 2                                                              | DC 12V; PoE Class 2                                                               | DC 12V; PoE Class 2                                                                | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        |
| Environmental Casing                                                            | Vandal Resistant (IK09)                                                          | Vandal Resistant (IK09)                                                          | Vandal Resistant (IK09)                                                          | No                                                                                | No                                                                                 | Vandal Resistant (IK09)                                                            | Vandal Resistant (IK09)                                                            | Vandal Resistant (IK09)                                                            | Vandal Resistant (IK09)                                                            |
| ONVIF Compliant                                                                 | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                               | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                |
| Starting Temperature                                                            | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                    | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     |
| Operating Temperature                                                           | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                    | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     |
| Approvals                                                                       | CE, FCC, IK09                                                                    | CE, FCC, IK09                                                                    | CE, FCC, IK09                                                                    | CE, FCC                                                                           | CE, FCC                                                                            | CE, FCC, IK09                                                                      | CE, FCC, IK09                                                                      | CE, FCC, IK09                                                                      | CE, FCC, IK09                                                                      |

|                                                                                 |                                                                                  |                                                                                  |                                                                                  |                                                                                  |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |                                                                                  | Vari-Focal Indoor Dome with WDR                                                  |                                                                                  |                                                                                  |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |
|                                                                                 |  |  |  |  |  |  |  |  |  |  |
| Model                                                                           | E61                                                                              | E62                                                                              | E63                                                                              | E64                                                                              | E65                                                                                | E66                                                                                | E67                                                                                | E68                                                                                | E69                                                                                | E610                                                                               |
| Maximum Resolution                                                              | 1MP                                                                              | 3MP                                                                              | 5MP                                                                              | 1MP                                                                              | 3MP                                                                                | 1.3MP                                                                              | 2MP                                                                                | 1.3MP                                                                              | 2MP                                                                                | 10MP                                                                               |
| Application Environment                                                         | Indoor                                                                           | Indoor                                                                           | Indoor                                                                           | Indoor                                                                           | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             |
| Image Sensor                                                                    | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              |
| Day / Night                                                                     | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                                | No                                                                                 | No                                                                                 | Yes                                                                                | Yes                                                                                | Yes                                                                                |
| Superior Low Light Sensitivity                                                  | No                                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                 | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | No                                                                                 |
| Minimum Illumination                                                            | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                     | Color: 0.1 lux at F1.4                                                             | Color: 0.1 lux at F1.4                                                             | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                     | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                     | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                     |
| Mechanical IR Cut Filter                                                        | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                                | No                                                                                 | No                                                                                 | Yes                                                                                | Yes                                                                                | Yes                                                                                |
| IR LED                                                                          | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                                | No                                                                                 | No                                                                                 | Yes                                                                                | Yes                                                                                | Yes (Adaptive)                                                                     |
| Lens                                                                            | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                         | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                         | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                         | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                         | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                           | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                           | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                           | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                           | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                           | Vari-focal, f3.1-13.3mm / F1.4, Fixed iris                                         |
| Viewing Angle Adjustment                                                        | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  | Pan: 0°-350°<br>Tilt: 17°-163°<br>Rotate: 0°-350°                                  | Pan: 0°-350°<br>Tilt: 5°-170°<br>Rotate: 0°-350°                                   |
| Lens Mount                                                                      | Board mount                                                                      | Board mount                                                                      | Board mount                                                                      | Board mount                                                                      | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        |
| Horizontal Viewing Angle                                                        | 59.8°-24.7°                                                                      | 70.5°-28.2°                                                                      | 69.2°-28.2°                                                                      | 60.1°-24.3°                                                                      | 70.5°-28.8°                                                                        | 83.0°-31.1°                                                                        | 92.5°-35.9°                                                                        | 83.0°-31.1°                                                                        | 92.5°-35.9°                                                                        | 100.5°-25.8°                                                                       |
| Compression                                                                     | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           |
| Frame Rate vs. Resolution                                                       | 30 fps at 1280 x 720                                                             | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                   | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                   | 30 fps at 1280 x 720                                                             | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                     | 30 fps at 1280 x 960<br>60 fps at 1280 x 720                                       | 30 fps at 1920 x 1080                                                              | 30 fps at 1280 x 960<br>60 fps at 1280 x 720                                       | 30 fps at 1920 x 1080                                                              | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080                                      |
| Multi-Streaming                                                                 | Dual streams                                                                     | Dual streams                                                                     | Dual streams                                                                     | Dual streams                                                                     | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       |
| Wide Dynamic Range                                                              | Basic WDR (69 dB)                                                                | Basic WDR (69 dB)                                                                | Basic WDR (69 dB)                                                                | Superior WDR (107 dB)                                                            | Superior WDR (107 dB)                                                              | Basic WDR (83.5 dB)                                                                | Basic WDR (72 dB)                                                                  | Basic WDR (83.5 dB)                                                                | Basic WDR (72 dB)                                                                  | Basic WDR (65.2 dB)                                                                |
| Digital Noise Reduction                                                         | DNR                                                                              | DNR                                                                              | DNR                                                                              | DNR                                                                              | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                |
| Audio                                                                           | No                                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                 | No                                                                                 | No                                                                                 | 2-way                                                                              | 2-way                                                                              | 2-way                                                                              |
| Digital Input/Output                                                            | No                                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                 | No                                                                                 | No                                                                                 | 1/1                                                                                | 1/1                                                                                | 2/2                                                                                |
| Local Storage                                                                   | MicroSDHC/MicroSDXC (card not included)                                          | MicroSDHC/MicroSDXC (card not included)                                          | MicroSDHC/MicroSDXC (card not included)                                          | MicroSDHC/MicroSDXC (card not included)                                          | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            |
| Power Source                                                                    | PoE Class 2                                                                      | PoE Class 2                                                                      | PoE Class 2                                                                      | PoE Class 2                                                                      | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        |
| Environmental Casing                                                            | Vandal Resistant (IK09)                                                          | Vandal Resistant (IK09)                                                          | Vandal Resistant (IK09)                                                          | Vandal Resistant (IK09)                                                          | Vandal Resistant (IK09)                                                            | Vandal Resistant (IK09)                                                            | Vandal Resistant (IK09)                                                            | Vandal Resistant (IK09)                                                            | Vandal Resistant (IK09)                                                            | Vandal Resistant (IK09)                                                            |
| ONVIF Compliant                                                                 | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                |
| Starting Temperature                                                            | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     |
| Operating Temperature                                                           | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     |
| Approvals                                                                       | CE, FCC, IK09                                                                    | CE, FCC, IK09                                                                    | CE, FCC, IK09                                                                    | CE, FCC, IK09                                                                    | CE, FCC, IK09                                                                      | CE, FCC, IK09                                                                      | CE, FCC, IK09                                                                      | CE, FCC, IK09                                                                      | CE, FCC, IK09                                                                      | CE, FCC, IK09                                                                      |

**Fixed Indoor Dome**
**Fixed Indoor Dome with WDR**

|                                | <div>Fixed Indoor Dome</div>                                                                   |                                                                                                           |                                                                                                |                                                                                                           |                                                                                                 | <div>Fixed Indoor Dome with WDR</div>                                                            |                                                                                                  |                                                                                                             |                                                                                                             |                                                                                                             |                                                                                                  |                                                                                                             |                                                                                                             |  |
|--------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--|
|                                | <div> HD</div> | <div> FULL HD 1080P</div> | <div> HD</div> | <div> FULL HD 1080P</div> | <div> HD</div> | <div> HD</div> | <div> HD</div> | <div> FULL HD 1080P</div> | <div> FULL HD 1080P</div> | <div> FULL HD 1080P</div> | <div> HD</div> | <div> FULL HD 1080P</div> | <div> FULL HD 1080P</div> |  |
| Model                          | D51                                                                                            | D52                                                                                                       | D54                                                                                            | D55                                                                                                       | TCM-3111                                                                                        | E51                                                                                              | E52                                                                                              | E53                                                                                                         | E54                                                                                                         | E56                                                                                                         | E57                                                                                              | E58                                                                                                         | E59                                                                                                         |  |
| Maximum Resolution             | 1MP                                                                                            | 3MP                                                                                                       | 1MP                                                                                            | 3MP                                                                                                       | 1.3MP                                                                                           | 1MP                                                                                              | 1MP                                                                                              | 3MP                                                                                                         | 5MP                                                                                                         | 3MP                                                                                                         | 1.3MP                                                                                            | 2MP                                                                                                         | 10MP                                                                                                        |  |
| Application Environment        | Indoor                                                                                         | Indoor                                                                                                    | Indoor                                                                                         | Indoor                                                                                                    | Indoor                                                                                          | Indoor                                                                                           | Indoor                                                                                           | Indoor                                                                                                      | Indoor                                                                                                      | Indoor                                                                                                      | Indoor                                                                                           | Indoor                                                                                                      | Indoor                                                                                                      |  |
| Image Sensor                   | Progressive Scan CMOS                                                                          | Progressive Scan CMOS                                                                                     | Progressive Scan CMOS                                                                          | Progressive Scan CMOS                                                                                     | Progressive Scan CMOS                                                                           | Progressive Scan CMOS                                                                            | Progressive Scan CMOS                                                                            | Progressive Scan CMOS                                                                                       | Progressive Scan CMOS                                                                                       | Progressive Scan CMOS                                                                                       | Progressive Scan CMOS                                                                            | Progressive Scan CMOS                                                                                       | Progressive Scan CMOS                                                                                       |  |
| Day / Night                    | No                                                                                             | No                                                                                                        | Yes                                                                                            | Yes                                                                                                       | No                                                                                              | No                                                                                               | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         |  |
| Superior Low Light Sensitivity | No                                                                                             | No                                                                                                        | No                                                                                             | No                                                                                                        | No                                                                                              | No                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | No                                                                                                          | Yes                                                                                              | Yes                                                                                                         | No                                                                                                          |  |
| Minimum Illumination           | Color: 0.1 lux at F2.0                                                                         | Color: 0.1 lux at F2.0                                                                                    | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                 | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                            | Color: 0.5 lux, B/W: 0.5 lux at F1.0                                                            | Color: 0.1 lux at F2.0                                                                           | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                   | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                              | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                              | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0                                                              | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.85                                                  | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.85                                                             | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                              |  |
| Mechanical IR Cut Filter       | No                                                                                             | No                                                                                                        | Yes                                                                                            | Yes                                                                                                       | No                                                                                              | No                                                                                               | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         |  |
| IR LED                         | No                                                                                             | No                                                                                                        | Yes                                                                                            | Yes                                                                                                       | No                                                                                              | No                                                                                               | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         |  |
| Lens                           | Fixed focal, f3.6mm / F2.0, Fixed iris                                                         | Fixed focal, f3.6mm / F2.0, Fixed iris                                                                    | Fixed focal, f3.6mm / F1.8, Fixed iris                                                         | Fixed focal, f3.6mm / F1.8, Fixed iris                                                                    | Fixed focal, f4.2mm / F1.8, Fixed iris                                                          | Fixed focal, f2.8mm / F2.0, Fixed iris                                                           | Fixed focal, f3.6mm / F1.8, Fixed iris                                                           | Fixed focal, f3.6mm / F1.8, Fixed iris                                                                      | Fixed focal, f3.6mm / F1.8, Fixed iris                                                                      | Fixed focal, f2.93mm / F2.0, Fixed iris                                                                     | Fixed focal, f3.6mm / F1.85, Fixed iris                                                          | Fixed focal, f3.6mm / F1.85, Fixed iris                                                                     | Fixed focal, f3.6mm / F1.8, Fixed iris                                                                      |  |
| Viewing Angle Adjustment       | Pan: 0°-330°<br>Tilt: 0°-180°                                                                  | Pan: 0°-330°<br>Tilt: 0°-180°                                                                             | Pan: 0°-330°<br>Tilt: 20°-90°                                                                  | Pan: 0°-330°<br>Tilt: 20°-90°                                                                             | Pan: 0°-170°<br>Tilt: 0°-180°                                                                   | Pan: 0°-330°<br>Tilt: 0°-180°                                                                    | Pan: 0°-330°<br>Tilt: 20°-90°                                                                    | Pan: 0°-330°<br>Tilt: 20°-90°                                                                               | Pan: 0°-330°<br>Tilt: 20°-90°                                                                               | Pan: 0°-330°<br>Tilt: 20°-90°                                                                               | Pan: 0°-330°<br>Tilt: 20°-90°                                                                    | Pan: 0°-330°<br>Tilt: 20°-90°                                                                               | Pan: 0°-330°<br>Tilt: 20°-90°                                                                               |  |
| Lens Mount                     | Board mount                                                                                    | Board mount                                                                                               | Board mount                                                                                    | Board mount                                                                                               | Board mount                                                                                     | Board mount                                                                                      | Board mount                                                                                      | Board mount                                                                                                 | Board mount                                                                                                 | Board mount                                                                                                 | Board mount                                                                                      | Board mount                                                                                                 | Board mount                                                                                                 |  |
| Horizontal Viewing Angle       | 60.2°                                                                                          | 70.8°                                                                                                     | 60.6°                                                                                          | 72.0°                                                                                                     | 68.2°                                                                                           | 77.5°                                                                                            | 60.6°                                                                                            | 72.0°                                                                                                       | 72.0°                                                                                                       | 85.7°                                                                                                       | 77.9°                                                                                            | 87.5°                                                                                                       | 101.4°                                                                                                      |  |
| Compression                    | H.264 High Profile MJPEG                                                                       | H.264 High Profile MJPEG                                                                                  | H.264 High Profile MJPEG                                                                       | H.264 High Profile MJPEG                                                                                  | H.264 MPEG-4 SP MJPEG                                                                           | H.264 High Profile MJPEG                                                                         | H.264 High Profile MJPEG                                                                         | H.264 High Profile MJPEG                                                                                    | H.264 High Profile MJPEG                                                                                    | H.264 High Profile MJPEG                                                                                    | H.264 High Profile MJPEG                                                                         | H.264 High Profile MJPEG                                                                                    | H.264 High Profile MJPEG                                                                                    |  |
| Frame Rate vs. Resolution      | 30 fps at 1280 x 720                                                                           | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                            | 30 fps at 1280 x 720                                                                           | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                            | 18 fps at 1280 x 1024<br>30 fps at 640 x 480                                                    | 30 fps at 1280 x 720                                                                             | 30 fps at 1280 x 720                                                                             | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                              | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                                              | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                              | 30 fps at 1280 x 960<br>60 fps at 1280 x 720                                                     | 30 fps at 1920 x 1080                                                                                       | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080                                                               |  |
| Multi-Streaming                | Dual streams                                                                                   | Dual streams                                                                                              | Dual streams                                                                                   | Dual streams                                                                                              | Dual streams                                                                                    | Dual streams                                                                                     | Dual streams                                                                                     | Dual streams                                                                                                | Dual streams                                                                                                | Dual streams                                                                                                | Dual streams                                                                                     | Dual streams                                                                                                | Dual streams                                                                                                |  |
| Wide Dynamic Range             | No                                                                                             | No                                                                                                        | No                                                                                             | No                                                                                                        | No                                                                                              | Basic WDR (69 dB)                                                                                | Basic WDR (69 dB)                                                                                | Basic WDR (69 dB)                                                                                           | Basic WDR (69 dB)                                                                                           | Superior WDR (107 dB)                                                                                       | Basic WDR (83.5 dB)                                                                              | Basic WDR (72 dB)                                                                                           | Basic WDR (65.2 dB)                                                                                         |  |
| Digital Noise Reduction        | DNR                                                                                            | DNR                                                                                                       | DNR                                                                                            | DNR                                                                                                       | No                                                                                              | DNR                                                                                              | DNR                                                                                              | DNR                                                                                                         | DNR                                                                                                         | DNR                                                                                                         | DNR                                                                                              | DNR                                                                                                         | DNR                                                                                                         |  |
| Audio                          | No                                                                                             | No                                                                                                        | No                                                                                             | No                                                                                                        | No                                                                                              | No                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | No                                                                                                          | No                                                                                               | No                                                                                                          | No                                                                                                          |  |
| Digital Input/Output           | No                                                                                             | No                                                                                                        | No                                                                                             | No                                                                                                        | No                                                                                              | No                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | No                                                                                                          | No                                                                                               | No                                                                                                          | No                                                                                                          |  |
| Local Storage                  | No                                                                                             | No                                                                                                        | No                                                                                             | No                                                                                                        | No                                                                                              | No                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | No                                                                                                          | No                                                                                               | No                                                                                                          | No                                                                                                          |  |
| Power Source                   | PoE Class 2                                                                                    | PoE Class 2                                                                                               | PoE Class 2                                                                                    | PoE Class 2                                                                                               | PoE Class 2                                                                                     | PoE Class 2                                                                                      | PoE Class 2                                                                                      | PoE Class 2                                                                                                 | PoE Class 2                                                                                                 | PoE Class 2                                                                                                 | PoE Class 2                                                                                      | PoE Class 2                                                                                                 | PoE Class 2                                                                                                 |  |
| Environmental Casing           | No                                                                                             | No                                                                                                        | No                                                                                             | No                                                                                                        | No                                                                                              | No                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | No                                                                                                          | No                                                                                               | No                                                                                                          | No                                                                                                          |  |
| ONVIF Compliant                | Yes                                                                                            | Yes                                                                                                       | Yes                                                                                            | Yes                                                                                                       | Yes                                                                                             | Yes                                                                                              | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         |  |
| Starting Temperature           | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                 | -10°C ~ 50°C<br>(14°F ~ 122°F)"                                                                           | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                 | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                            | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                  | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              |  |
| Operating Temperature          | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                 | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                            | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                 | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                            | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                  | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                              |  |
| Approvals                      | CE, FCC                                                                                        | CE, FCC                                                                                                   | CE, FCC                                                                                        | CE, FCC                                                                                                   | CE, FCC                                                                                         | CE, FCC                                                                                          | CE, FCC                                                                                          | CE, FCC                                                                                                     | CE, FCC                                                                                                     | CE, FCC                                                                                                     | CE, FCC                                                                                          | CE, FCC                                                                                                     | CE, FCC                                                                                                     |  |

| <div>  </div> | Indoor Mini Dome                                                                 |                                                                                  |                                                                                  | Indoor Mini Dome with WDR                                                         |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    | Indoor Mini Fisheye Dome with WDR                                                  |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                              |  |  |  |  |  |  |  |  |  |  |
| Model                                                                                        | D91                                                                              | D92                                                                              | ACM-3701E                                                                        | E91                                                                               | E92                                                                                | E93                                                                                | E94                                                                                | E95                                                                                | E97                                                                                | E96                                                                                |
| Maximum Resolution                                                                           | 1MP                                                                              | 3MP                                                                              | 1.3MP                                                                            | 1MP                                                                               | 3MP                                                                                | 5MP                                                                                | 1.3MP                                                                              | 2MP                                                                                | 10MP                                                                               | 5MP                                                                                |
| Application Environment                                                                      | Indoor                                                                           | Indoor                                                                           | Indoor                                                                           | Indoor                                                                            | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             | Indoor                                                                             |
| Image Sensor                                                                                 | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                             | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              |
| Day / Night                                                                                  | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| Superior Low Light Sensitivity                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | Yes                                                                                | Yes                                                                                | No                                                                                 | No                                                                                 |
| Minimum Illumination                                                                         | Color: 0.1 lux at F2.0                                                           | Color: 0.1 lux at F2.0                                                           | Color: 0.5 lux, B/W: 0.5 lux at F1.0                                             | Color: 0.1 lux at F2.0                                                            | Color: 0.1 lux at F2.0                                                             | Color: 0.1 lux at F2.8                                                             | Color: 0.1 lux at F1.85                                                            | Color: 0.1 lux at F1.85                                                            | Color: 0.1 lux at F1.8                                                             | Color: 0.1 lux at F2.0                                                             |
| Mechanical IR Cut Filter                                                                     | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| IR LED                                                                                       | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| Lens                                                                                         | Fixed focal, f2.93mm / F2.0, Fixed iris                                          | Fixed focal, f2.93mm / F2.0, Fixed iris                                          | Fixed focal, f3.6mm / F1.8, Fixed iris                                           | Fixed focal, f2.93mm / F2.0, Fixed iris                                           | Fixed focal, f2.93mm / F2.0, Fixed iris                                            | Fixed focal, f1.9mm / F2.8, Fixed iris                                             | Fixed focal, f3.6mm / F1.85, Fixed iris                                            | Fixed focal, f3.6mm / F1.85, Fixed iris                                            | Fixed focal, f3.6mm / F1.8, Fixed iris                                             | Fixed focal, f1.19mm / F2.0, Fixed iris                                            |
| Viewing Angle Adjustment                                                                     | Pan: ±90°<br>Tilt: 0°-90°                                                        | Pan: ±90°<br>Tilt: 0°-90°                                                        | Pan: ±20°<br>Tilt: 0°-90°<br>Rotate: ±15°                                        | Pan: ±90°<br>Tilt: 0°-90°                                                         | Pan: ±90°<br>Tilt: 0°-90°                                                          | Pan: ±90°<br>Tilt: 0°-90°                                                          | Pan: ±90°<br>Tilt: 0°-90°                                                          | Pan: ±90°<br>Tilt: 0°-90°                                                          | Pan: ±90°<br>Tilt: 0°-90°                                                          | Rotate: ±90°                                                                       |
| Lens Mount                                                                                   | Board mount                                                                      | Board mount                                                                      | Board mount                                                                      | Board mount                                                                       | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        | Board mount                                                                        |
| Horizontal Viewing Angle                                                                     | 72.0°                                                                            | 83.3°                                                                            | 72.3°                                                                            | 72.0°                                                                             | 83.3°                                                                              | 126.9° (overview area)<br>77.4° (high detail area)                                 | 77.3°                                                                              | 87.5°                                                                              | 101.4°                                                                             | 180° (overview area)<br>109.8° (high detail area)                                  |
| Compression                                                                                  | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                         | MPEG-4 SP MJPEG                                                                  | H.264 High Profile MJPEG                                                          | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           |
| Frame Rate vs. Resolution                                                                    | 30 fps at 1280 x 720                                                             | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                   | 8 fps at 1280 x 1024<br>30 fps at 640 x 480                                      | 30 fps at 1280 x 720                                                              | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                     | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                     | 30 fps at 1280 x 960<br>60 fps at 1280 x 720                                       | 30 fps at 1920 x 1080                                                              | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080                                      | 15 fps at 2592 x 1944                                                              |
| View Mode                                                                                    | -                                                                                | -                                                                                | -                                                                                | -                                                                                 | -                                                                                  | -                                                                                  | -                                                                                  | -                                                                                  | -                                                                                  | Fisheye View                                                                       |
| Multi-Streaming                                                                              | Dual streams                                                                     | Dual streams                                                                     | Single streams                                                                   | Dual streams                                                                      | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       |
| Wide Dynamic Range                                                                           | No                                                                               | No                                                                               | No                                                                               | Basic WDR (69 dB)                                                                 | Basic WDR (69 dB)                                                                  | Basic WDR (69 dB)                                                                  | Basic WDR (83.5 dB)                                                                | Basic WDR (72 dB)                                                                  | Basic WDR (65.2 dB)                                                                | Basic WDR (69 dB)                                                                  |
| Digital Noise Reduction                                                                      | DNR                                                                              | DNR                                                                              | No                                                                               | DNR                                                                               | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                |
| Audio                                                                                        | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| Digital Input/Output                                                                         | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| Local Storage                                                                                | MicroSDHC/MicroSDXC (card not included)                                          | MicroSDHC/MicroSDXC (card not included)                                          | No                                                                               | MicroSDHC/MicroSDXC (card not included)                                           | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            |
| Power Source                                                                                 | PoE Class 1                                                                      | PoE Class 1                                                                      | PoE Class 3                                                                      | PoE Class 1                                                                       | PoE Class 1                                                                        | PoE Class 1                                                                        | PoE Class 1                                                                        | PoE Class 1                                                                        | PoE Class 1                                                                        | PoE Class 1                                                                        |
| Environmental Casing                                                                         | Vandal Resistant (IK08)                                                          | Vandal Resistant (IK08)                                                          | No                                                                               | Vandal Resistant (IK08)                                                           | Vandal Resistant (IK08)                                                            | Vandal Resistant (IK08)                                                            | Vandal Resistant (IK08)                                                            | Vandal Resistant (IK08)                                                            | Vandal Resistant (IK08)                                                            | Vandal Resistant (IK08)                                                            |
| ONVIF Compliant                                                                              | Yes                                                                              | Yes                                                                              | No                                                                               | Yes                                                                               | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                |
| Starting Temperature                                                                         | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 40°C<br>(14°F ~ 104°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                    | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     |
| Operating Temperature                                                                        | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                   | -10°C ~ 40°C<br>(14°F ~ 104°F)                                                   | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                    | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                     | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                     |
| Approvals                                                                                    | CE, FCC, IK08                                                                    | CE, FCC, IK08                                                                    | CE, FCC                                                                          | CE, FCC, IK08                                                                     | CE, FCC, IK08                                                                      | CE, FCC, IK08                                                                      | CE, FCC, IK08                                                                      | CE, FCC, IK08                                                                      | CE, FCC, IK08                                                                      | CE, FCC, IK08                                                                      |



## Zoom Bullet with WDR



## Vari-Focal Bullet with WDR



| Model                          | B41                                                     | B44                                                     | B45                                                     | B47                                                     | E41                                                     | E41A                                                    | E42A                                                    | E43A                                                    | E44                                                     | E45                                                     | E46                                                     | E47                                                     |
|--------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Maximum Resolution             | 5MP                                                     | 1.3MP                                                   | 2MP                                                     | 3MP                                                     | 1MP                                                     | 1MP                                                     | 3MP                                                     | 5MP                                                     | 2MP                                                     | 1MP                                                     | 3MP                                                     | 1.3MP                                                   |
| Application Environment        | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 | Outdoor                                                 |
| Image Sensor                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   | Progressive Scan CMOS                                   |
| Day / Night                    | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     |
| Superior Low Light Sensitivity | No                                                      | Yes                                                     | Yes                                                     | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | Yes                                                     | No                                                      | No                                                      | Yes                                                     |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.6          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4          |
| Mechanical IR Cut Filter       | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     |
| IR LED                         | Yes (Adaptive)                                          | Yes (Adaptive)                                          | Yes (Adaptive)                                          | Yes (Adaptive)                                          | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     |
| Lens                           | Zoom, f5.2-62.4mm / F1.8-3.0, DC iris                   | Zoom, f4.9-49mm / F1.8-3.0, DC iris                     | Zoom, f4.9-49mm / F1.8-3.0, DC iris                     | Zoom, f5.2-62.4mm / F1.8-3.0, DC iris                   | Vari-focal, f3.3-12mm / F1.6, Fixed iris                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                | Vari-focal, f2.8-12mm / F1.4, Fixed iris                |
| Zoom Ratio                     | 12x optical                                             | 10x optical                                             | 10x optical                                             | 12x optical                                             | -                                                       | -                                                       | -                                                       | -                                                       | -                                                       | -                                                       | -                                                       | -                                                       |
| Lens Mount                     | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             | Board mount                                             |
| Horizontal Viewing Angle       | 48.4°-4.8°                                              | 52.1°-5.7°                                              | 57.8°-6.9°                                              | 50.2°-4.69°                                             | 69.8°-19.1°                                             | 59.8°-24.7°                                             | 70.5°-28.2°                                             | 69.2°-28.2°                                             | 92.5°-35.9°                                             | 60.1°-24.3°                                             | 70.5°-28.8°                                             | 59.8°-24.7°                                             |
| Compression                    | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                | H.264 High Profile MJPEG                                |
| Frame Rate vs. Resolution      | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080          | 30 fps at 1280 x 960<br>60 fps at 1280 x 720            | 30 fps at 1920 x 1080                                   | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080          | 30 fps at 1280 x 720                                    | 30 fps at 1280 x 720                                    | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080          | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080          | 30 fps at 1920 x 1080                                   | 30 fps at 1280 x 720                                    | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080          | 30 fps at 1280 x 960<br>60 fps at 1280 x 720            |
| Multi-Streaming                | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            | Dual streams                                            |
| Wide Dynamic Range             | Basic WDR (69 dB)                                       | Basic WDR (83.5 dB)                                     | Basic WDR (72 dB)                                       | Superior WDR (107 dB)                                   | Basic WDR (69 dB)                                       | Basic WDR (69 dB)                                       | Basic WDR (69 dB)                                       | Basic WDR (69 dB)                                       | Basic WDR (72 dB)                                       | Superior WDR (107 dB)                                   | Superior WDR (107 dB)                                   | Basic WDR (83.5 dB)                                     |
| Digital Noise Reduction        | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     | DNR                                                     |
| Audio                          | 2-way                                                   | 2-way                                                   | 2-way                                                   | 2-way                                                   | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | 2-way                                                   |
| Digital Input/Output           | 1/1                                                     | 1/1                                                     | 1/1                                                     | 1/1                                                     | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | 1/1                                                     |
| Local Storage                  | MicroSDHC/MicroSDXC (card not included)                 | MicroSDHC/MicroSDXC (card not included)                 | MicroSDHC/MicroSDXC (card not included)                 | MicroSDHC/MicroSDXC (card not included)                 | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | No                                                      | MicroSDHC/MicroSDXC (card not included)                 |
| Power Source                   | DC 12V; PoE Class 3                                     | DC 12V; PoE Class 3                                     | DC 12V; PoE Class 3                                     | DC 12V; PoE Class 3                                     | PoE Class 2                                             | PoE Class 2                                             | PoE Class 2                                             | PoE Class 2                                             | PoE Class 2                                             | PoE Class 2                                             | PoE Class 2                                             | PoE Class 3                                             |
| Environmental Casing           | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) | Weatherproof (IP66)<br>Vandal proof metal casing (IK10) |
| ONVIF Compliant                | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     | Yes                                                     |
| Starting Temperature           | -40°C ~ 50°C<br>(-40°F ~ 122°F)<br>within 30 minutes    | -40°C ~ 50°C<br>(-40°F ~ 122°F)<br>within 30 minutes    | -40°C ~ 50°C<br>(-40°F ~ 122°F)<br>within 30 minutes    | -40°C ~ 50°C<br>(-40°F ~ 122°F)<br>within 30 minutes    | -20°C ~ 50°C<br>(-4°F ~ 122°F)                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                          |
| Operating Temperature          | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                         |
| Approvals                      | CE, FCC, IP66, NEMA 4X                                  | CE, FCC, IP66, NEMA 4X                                  | CE, FCC, IP66, NEMA 4X                                  | CE, FCC, IP66, NEMA 4X                                  | CE, FCC, IP66, IK10 (metal casing)                      | CE, FCC, IP66, IK10 (metal casing)                      | CE, FCC, IP66, IK10 (metal casing)                      | CE, FCC, IP66, IK10 (metal casing)                      | CE, FCC, IP66, IK10 (metal casing)                      | CE, FCC, IP66, IK10 (metal casing)                      | CE, FCC, IP66, IK10 (metal casing)                      | CE, FCC, IP66, NEMA 4X, IK10 (metal casing)             |

|                                | Vari-Focal Bullet                                                                          |                                                                                                       | Fixed Bullet with WDR                                                                      |                                                                                                        |                                                                                                         |                                                                                                         |                                                                                                         | Fixed Bullet                                                                                 |                                                                                                         |
|--------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                |  <b>HD</b> |  <b>FULL HD 1080P</b> |  <b>HD</b> |  <b>FULL HD 1080P</b> |  <b>FULL HD 1080P</b> |  <b>FULL HD 1080P</b> |  <b>FULL HD 1080P</b> |  <b>HD</b> |  <b>FULL HD 1080P</b> |
| Model                          | D41                                                                                        | D42                                                                                                   | E31                                                                                        | E32                                                                                                    | E33                                                                                                     | E34                                                                                                     | E37                                                                                                     | D31                                                                                          | D32                                                                                                     |
| Maximum Resolution             | 1MP                                                                                        | 3MP                                                                                                   | 1MP                                                                                        | 3MP                                                                                                    | 5MP                                                                                                     | 3MP                                                                                                     | 10MP                                                                                                    | 1MP                                                                                          | 3MP                                                                                                     |
| Application Environment        | Outdoor                                                                                    | Outdoor                                                                                               | Outdoor                                                                                    | Outdoor                                                                                                | Outdoor                                                                                                 | Outdoor                                                                                                 | Outdoor                                                                                                 | Outdoor                                                                                      | Outdoor                                                                                                 |
| Image Sensor                   | Progressive Scan CMOS                                                                      | Progressive Scan CMOS                                                                                 | Progressive Scan CMOS                                                                      | Progressive Scan CMOS                                                                                  | Progressive Scan CMOS                                                                                   | Progressive Scan CMOS                                                                                   | Progressive Scan CMOS                                                                                   | Progressive Scan CMOS                                                                        | Progressive Scan CMOS                                                                                   |
| Day / Night                    | Yes                                                                                        | Yes                                                                                                   | Yes                                                                                        | Yes                                                                                                    | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     |
| Superior Low Light Sensitivity | No                                                                                         | No                                                                                                    | No                                                                                         | No                                                                                                     | No                                                                                                      | No                                                                                                      | No                                                                                                      | No                                                                                           | No                                                                                                      |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                             | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4                                                        | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                             | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                         | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                          | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.85                                                         | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                               | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8                                                          |
| Mechanical IR Cut Filter       | Yes                                                                                        | Yes                                                                                                   | Yes                                                                                        | Yes                                                                                                    | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     |
| IR LED                         | Yes                                                                                        | Yes                                                                                                   | Yes                                                                                        | Yes                                                                                                    | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     |
| Lens                           | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                   | Vari-focal, f2.8-12mm / F1.4, Fixed iris                                                              | Fixed focal, f4.2mm / F1.8, Fixed iris                                                     | Fixed focal, f4.2mm / F1.8, Fixed iris                                                                 | Fixed focal, f4.2mm / F1.8, Fixed iris                                                                  | Fixed focal, f3.6mm / F1.8, Fixed iris                                                                  | Fixed focal, f3.6mm / F1.85, Fixed iris                                                                 | Fixed focal, f4.2mm / F1.8, Fixed iris                                                       | Fixed focal, f4.2mm / F1.8, Fixed iris                                                                  |
| Lens Mount                     | Board mount                                                                                | Board mount                                                                                           | Board mount                                                                                | Board mount                                                                                            | Board mount                                                                                             | Board mount                                                                                             | Board mount                                                                                             | Board mount                                                                                  | Board mount                                                                                             |
| Horizontal Viewing Angle       | 59.8°-24.7°                                                                                | 70.5°-28.2°                                                                                           | 55.9°                                                                                      | 62.7°                                                                                                  | 62.7°                                                                                                   | 68.0°                                                                                                   | 100.8°                                                                                                  | 55.9°                                                                                        | 62.7°                                                                                                   |
| Compression                    | H.264 High Profile MJPEG                                                                   | H.264 High Profile MJPEG                                                                              | H.264 High Profile MJPEG                                                                   | H.264 High Profile MJPEG                                                                               | H.264 High Profile MJPEG                                                                                | H.264 High Profile MJPEG                                                                                | H.264 High Profile MJPEG                                                                                | H.264 High Profile MJPEG                                                                     | H.264 High Profile MJPEG                                                                                |
| Frame Rate vs. Resolution      | 30 fps at 1280 x 720                                                                       | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                        | 30 fps at 1280 x 720                                                                       | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                         | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                                          | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                          | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080                                                           | 30 fps at 1280 x 720                                                                         | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                          |
| Multi-Streaming                | Dual streams                                                                               | Dual streams                                                                                          | Dual streams                                                                               | Dual streams                                                                                           | Dual streams                                                                                            | Dual streams                                                                                            | Dual streams                                                                                            | Dual streams                                                                                 | Dual streams                                                                                            |
| Wide Dynamic Range             | No                                                                                         | No                                                                                                    | Basic WDR (69 dB)                                                                          | Basic WDR (69 dB)                                                                                      | Basic WDR (69 dB)                                                                                       | Superior WDR (107 dB)                                                                                   | Basic WDR (65.2 dB)                                                                                     | No                                                                                           | No                                                                                                      |
| Digital Noise Reduction        | DNR                                                                                        | DNR                                                                                                   | DNR                                                                                        | DNR                                                                                                    | DNR                                                                                                     | DNR                                                                                                     | DNR                                                                                                     | DNR                                                                                          | DNR                                                                                                     |
| Audio                          | No                                                                                         | No                                                                                                    | No                                                                                         | No                                                                                                     | No                                                                                                      | No                                                                                                      | No                                                                                                      | No                                                                                           | No                                                                                                      |
| Digital Input/Output           | No                                                                                         | No                                                                                                    | No                                                                                         | No                                                                                                     | No                                                                                                      | No                                                                                                      | No                                                                                                      | No                                                                                           | No                                                                                                      |
| Local Storage                  | No                                                                                         | No                                                                                                    | No                                                                                         | No                                                                                                     | No                                                                                                      | No                                                                                                      | MicroSDHC/MicroSDXC (card not included)                                                                 | No                                                                                           | No                                                                                                      |
| Power Source                   | PoE Class 2                                                                                | PoE Class 2                                                                                           | PoE Class 2                                                                                | PoE Class 2                                                                                            | PoE Class 2                                                                                             | PoE Class 2                                                                                             | PoE Class 3                                                                                             | PoE Class 2                                                                                  | PoE Class 2                                                                                             |
| Environmental Casing           | Weatherproof (IP66)<br>Vandal proof metal casing (IK10)                                    | Weatherproof (IP66)<br>Vandal proof metal casing (IK10)                                               | Weatherproof (IP66)<br>Vandal proof metal casing (IK10)                                    | Weatherproof (IP66)<br>Vandal proof metal casing (IK10)                                                | Weatherproof (IP66)<br>Vandal proof metal casing (IK10)                                                 | Weatherproof (IP66)<br>Vandal proof metal casing (IK10)                                                 | Weatherproof (IP66)<br>Vandal proof metal casing (IK10)                                                 | Weatherproof (IP66)                                                                          | Weatherproof (IP66)                                                                                     |
| ONVIF Compliant                | Yes                                                                                        | Yes                                                                                                   | Yes                                                                                        | Yes                                                                                                    | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                                     | Yes                                                                                          | Yes                                                                                                     |
| Starting Temperature           | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                             | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                        | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                             | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                         | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                               | -20°C ~ 50°C<br>(-4°F ~ 122°F)                                                                          |
| Operating Temperature          | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                            | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                       | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                            | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                        | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                              | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                         |
| Approvals                      | CE, FCC, IP66, IK10 (metal casing)                                                         | CE, FCC, IP66, IK10 (metal casing)                                                                    | CE, FCC, IP66, IK10 (metal casing)                                                         | CE, FCC, IP66, IK10 (metal casing)                                                                     | CE, FCC, IP66, IK10 (metal casing)                                                                      | CE, FCC, IP66, IK10 (metal casing)                                                                      | CE, FCC, IP66, NEMA 4X, IK10 (metal casing)                                                             | CE, FCC, IP66                                                                                | CE, FCC, IP66                                                                                           |

|                                | Box                                                                              |                                                                                  |                                                                                  |                                                                                  | Box with WDR                                                                      |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Model                          | D21F                                                                             | D21V                                                                             | D22F                                                                             | D22V                                                                             | E21F                                                                              | E21V                                                                               | E22F                                                                               | E22V                                                                               | E23                                                                                | E24                                                                                | E25                                                                                | E270                                                                               | E271                                                                               |
| Maximum Resolution             | 1MP                                                                              | 1MP                                                                              | 5MP                                                                              | 5MP                                                                              | 1MP                                                                               | 1MP                                                                                | 5MP                                                                                | 5MP                                                                                | 2MP                                                                                | 3MP                                                                                | 1.3MP                                                                              | 10MP                                                                               | 10MP                                                                               |
| Application Environment        | Indoor/Outdoor                                                                   | Indoor/Outdoor                                                                   | Indoor/Outdoor                                                                   | Indoor/Outdoor                                                                   | Indoor/Outdoor                                                                    | Indoor/Outdoor                                                                     | Indoor/Outdoor                                                                     | Indoor/Outdoor                                                                     | Indoor/Outdoor                                                                     | Indoor/Outdoor                                                                     | Indoor/Outdoor                                                                     | Indoor/Outdoor                                                                     | Indoor/Outdoor                                                                     |
| Image Sensor                   | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                            | Progressive Scan CMOS                                                             | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              | Progressive Scan CMOS                                                              |
| Day / Night                    | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                               | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                |
| Superior Low Light Sensitivity | No                                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | Yes                                                                                | No                                                                                 | Yes                                                                                | No                                                                                 | No                                                                                 |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0.05 lux at F1.8                                            | Color: 0.1 lux, B/W: 0.05 lux at F1.4                                            | Color: 0.1 lux, B/W: 0.05 lux at F2.0                                            | Color: 0.1 lux, B/W: 0.05 lux at F1.4                                            | Color: 0.1 lux, B/W: 0.05 lux at F1.8                                             | Color: 0.1 lux, B/W: 0.05 lux at F1.4                                              | Color: 0.1 lux, B/W: 0.05 lux at F2.0                                              | Color: 0.1 lux, B/W: 0.05 lux at F1.4                                              | Color: 0.1 lux, B/W: 0.05 lux at F1.4                                              | Color: 0.1 lux, B/W: 0.05 lux at F1.4                                              | Color: 0.1 lux, B/W: 0.05 lux at F1.4                                              | Color: 0.1 lux, B/W: 0.05 lux at F1.8                                              | Color: 0.1 lux, B/W: 0.05 lux at F1.4                                              |
| Mechanical IR Cut Filter       | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                               | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                |
| IR LED                         | No                                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 |
| Lens                           | Fixed focal, f4.2mm / F1.8, Fixed iris                                           | Vari-focal, f2.8-12mm / F1.4, DC iris                                            | Fixed focal, f2.93mm / F2.0, Fixed iris                                          | Vari-focal, f2.8-12mm / F1.4, DC iris                                            | Fixed focal, f4.2mm / F1.8, Fixed iris                                            | Vari-focal, f2.8-12mm / F1.4, DC iris                                              | Fixed focal, f2.93mm / F2.0, Fixed iris                                            | Vari-focal, f2.8-12mm / F1.4, DC iris                                              | Vari-focal, f2.8-12mm / F1.4, DC iris                                              | Vari-focal, f2.8-12mm / F1.4, DC iris                                              | Vari-focal, f2.8-12mm / F1.4, DC iris                                              | Fixed focal, f3.6mm / F1.8, Fixed iris                                             | Vari-focal, f3-13mm / F1.4, DC iris                                                |
| Lens Mount                     | CS mount (interchangeable lens)                                                  | CS mount (interchangeable lens)                                                  | CS mount (interchangeable lens)                                                  | CS mount (interchangeable lens)                                                  | CS mount (interchangeable lens)                                                   | CS mount (interchangeable lens)                                                    | CS mount (interchangeable lens)                                                    | CS mount (interchangeable lens)                                                    | CS mount (interchangeable lens)                                                    | CS mount (interchangeable lens)                                                    | CS mount (interchangeable lens)                                                    | CS mount (interchangeable lens)                                                    | CS mount (interchangeable lens)                                                    |
| Horizontal Viewing Angle       | 53.8°                                                                            | 62.0°-24.8°                                                                      | 81.6°                                                                            | 70.9°-29.2°                                                                      | 53.8°                                                                             | 62.0°-24.8°                                                                        | 81.6°                                                                              | 70.9°-29.2°                                                                        | 88.4°-35.7°                                                                        | 78.1°-26.8°                                                                        | 82.0°-31.1°                                                                        | 101.4°                                                                             | 100.5°-26.2°                                                                       |
| Compression                    | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                         | H.264 High Profile MJPEG                                                          | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           | H.264 High Profile MJPEG                                                           |
| Frame Rate vs. Resolution      | 30 fps at 1280 x 720                                                             | 30 fps at 1280 x 720                                                             | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                   | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                   | 30 fps at 1280 x 720                                                              | 30 fps at 1280 x 720                                                               | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                     | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                     | 30 fps at 1920 x 1080                                                              | 15 fps at 2048 x 1536<br>60 fps at 1280 x 960<br>30 fps at 1920 x 1080             | 30 fps at 1280 x 960<br>60 fps at 1280 x 720                                       | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080                                      | 6 fps at 3648 x 2736<br>30 fps at 1920 x 1080                                      |
| Multi-Streaming                | Dual streams                                                                     | Dual streams                                                                     | Dual streams                                                                     | Dual streams                                                                     | Dual streams                                                                      | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       | Dual streams                                                                       |
| Wide Dynamic Range             | No                                                                               | No                                                                               | No                                                                               | No                                                                               | Basic WDR (69 dB)                                                                 | Basic WDR (69 dB)                                                                  | Basic WDR (69 dB)                                                                  | Basic WDR (69 dB)                                                                  | Basic WDR (72 dB)                                                                  | Superior WDR (107 dB)                                                              | Basic WDR (83.5 dB)                                                                | Basic WDR (65.2 dB)                                                                | Basic WDR (65.2 dB)                                                                |
| Digital Noise Reduction        | DNR                                                                              | DNR                                                                              | DNR                                                                              | DNR                                                                              | DNR                                                                               | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                | DNR                                                                                |
| Audio                          | No                                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | 2-way                                                                              | 2-way                                                                              |
| Digital Input/Output           | No                                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | 1/1                                                                                | 1/1                                                                                |
| Local Storage                  | No                                                                               | No                                                                               | No                                                                               | No                                                                               | No                                                                                | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | No                                                                                 | MicroSDHC/MicroSDXC (card not included)                                            | MicroSDHC/MicroSDXC (card not included)                                            |
| Power Source                   | PoE Class 2                                                                      | PoE Class 2                                                                      | PoE Class 2                                                                      | PoE Class 2                                                                      | PoE Class 2                                                                       | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        | PoE Class 2                                                                        |
| Environmental Casing           | Optional housing (IP66)                                                          | Optional housing (IP66)                                                          | Optional housing (IP66)                                                          | Optional housing (IP66)                                                          | Optional housing (IP66)                                                           | Optional housing (IP66)                                                            | Optional housing (IP66)                                                            | Optional housing (IP66)                                                            | Optional housing (IP66)                                                            | Optional housing (IP66)                                                            | Optional housing (IP66)                                                            | Optional housing (IP66)                                                            | Optional housing (IP66)                                                            |
| ONVIF Compliant                | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                              | Yes                                                                               | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                | Yes                                                                                |
| Starting Temperature           | -10°C ~ 50°C (14°F ~ 122°F)                                                      | -10°C ~ 50°C (14°F ~ 122°F)                                                      | -10°C ~ 50°C (14°F ~ 122°F)                                                      | -10°C ~ 50°C (14°F ~ 122°F)                                                      | -10°C ~ 50°C (14°F ~ 122°F)                                                       | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        |
| Operating Temperature          | -10°C ~ 50°C (14°F ~ 122°F)                                                      | -10°C ~ 50°C (14°F ~ 122°F)                                                      | -10°C ~ 50°C (14°F ~ 122°F)                                                      | -10°C ~ 50°C (14°F ~ 122°F)                                                      | -10°C ~ 50°C (14°F ~ 122°F)                                                       | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        | -10°C ~ 50°C (14°F ~ 122°F)                                                        |
| Approvals                      | CE, FCC                                                                          | CE, FCC                                                                          | CE, FCC                                                                          | CE, FCC                                                                          | CE, FCC                                                                           | CE, FCC                                                                            | CE, FCC                                                                            | CE, FCC                                                                            | CE, FCC                                                                            | CE, FCC                                                                            | CE, FCC                                                                            | CE, FCC                                                                            | CE, FCC                                                                            |

|                                | Box with Zoom Lens                                                                                       |                                                                                                          |                                                                                                          |                                                                                                           | Cube                                                                                     |                                                                                                     | Cube with WDR                                                                            |                                                                                                     |                                                                                                     |
|--------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                | <br>18x<br>FULL HD 1080P | <br>18x<br>FULL HD 1080P | <br>22x<br>FULL HD 1080P | <br>18x<br>FULL HD 1080P | <br>HD | <br>FULL HD 1080P | <br>HD | <br>FULL HD 1080P | <br>FULL HD 1080P |
| Model                          | KCM-5211                                                                                                 | KCM-5211E                                                                                                | KCM-5511                                                                                                 | KCM-5611                                                                                                  | D11                                                                                      | D12                                                                                                 | E11                                                                                      | E12                                                                                                 | E13                                                                                                 |
| Maximum Resolution             | 4MP                                                                                                      | 4MP                                                                                                      | 2MP                                                                                                      | 2MP                                                                                                       | 1MP                                                                                      | 3MP                                                                                                 | 1MP                                                                                      | 3MP                                                                                                 | 5MP                                                                                                 |
| Application Environment        | Indoor                                                                                                   | Outdoor                                                                                                  | Outdoor                                                                                                  | Outdoor                                                                                                   | Indoor                                                                                   | Indoor                                                                                              | Indoor                                                                                   | Indoor                                                                                              | Indoor                                                                                              |
| Image Sensor                   | Progressive Scan CMOS                                                                                    | Progressive Scan CMOS                                                                                    | Progressive Scan CMOS                                                                                    | Progressive Scan CMOS                                                                                     | Progressive Scan CMOS                                                                    | Progressive Scan CMOS                                                                               | Progressive Scan CMOS                                                                    | Progressive Scan CMOS                                                                               | Progressive Scan CMOS                                                                               |
| Day / Night                    | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                       | No                                                                                       | No                                                                                                  | No                                                                                       | No                                                                                                  | No                                                                                                  |
| Superior Low Light Sensitivity | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                       | No                                                                                       | No                                                                                                  | No                                                                                       | No                                                                                                  | No                                                                                                  |
| Minimum Illumination           | Color: 0.1 lux, B/W: 0.05 lux at F1.6                                                                    | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.6                                                           | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.6                                                           | Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.6                                                            | Color: 0.1 lux at F2.0                                                                   | Color: 0.1 lux at F2.0                                                                              | Color: 0.1 lux at F1.8                                                                   | Color: 0.1 lux at F2.0                                                                              | Color: 0.1 lux at F2.0                                                                              |
| Mechanical IR Cut Filter       | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                       | No                                                                                       | No                                                                                                  | No                                                                                       | No                                                                                                  | No                                                                                                  |
| IR LED                         | No                                                                                                       | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                       | No                                                                                       | No                                                                                                  | No                                                                                       | No                                                                                                  | No                                                                                                  |
| Lens                           | Zoom, f4.7-84.6mm / F1.6-2.8, DC iris                                                                    | Zoom, f4.7-84.6mm / F1.6-2.8, DC iris                                                                    | Zoom, f3.2-70.4mm / F1.6-3.8, DC iris                                                                    | Zoom, f4.7-84.6mm / F1.6-2.8, DC iris                                                                     | Fixed focal, f3.6mm / F2.0, Fixed iris                                                   | Fixed focal, f3.6mm / F2.0, Fixed iris                                                              | Fixed focal, f4.2mm / F1.8, Fixed iris,                                                  | Fixed focal, f2.8mm / F2.0, Fixed iris                                                              | Fixed focal, f2.8mm / F2.0, Fixed iris                                                              |
| Zoom Ratio                     | 18x optical                                                                                              | 18x optical                                                                                              | 22x optical                                                                                              | 18x optical                                                                                               | -                                                                                        | -                                                                                                   | -                                                                                        | -                                                                                                   | -                                                                                                   |
| Lens Mount                     | Board mount                                                                                              | Board mount                                                                                              | Board mount                                                                                              | Board mount                                                                                               | Board mount                                                                              | Board mount                                                                                         | CS mount (interchangeable lens)                                                          | CS mount (interchangeable lens)                                                                     | CS mount (interchangeable lens)                                                                     |
| Horizontal Viewing Angle       | 48.9°-3.6°                                                                                               | 48.9°-3.6°                                                                                               | 57.1°-3.0°                                                                                               | 48.9°-3.6°                                                                                                | 60.2°                                                                                    | 70.8°                                                                                               | 53.8°                                                                                    | 92.6°                                                                                               | 92.6°                                                                                               |
| Compression                    | H.264<br>MPEG-4 SP<br>MJPEG                                                                              | H.264<br>MPEG-4 SP<br>MJPEG                                                                              | H.264<br>MPEG-4 SP<br>MJPEG                                                                              | H.264<br>MPEG-4 SP<br>MJPEG                                                                               | H.264 High Profile<br>MJPEG                                                              | H.264 High Profile<br>MJPEG                                                                         | H.264 High Profile<br>MJPEG                                                              | H.264 High Profile<br>MJPEG                                                                         | H.264 High Profile<br>MJPEG                                                                         |
| Frame Rate vs. Resolution      | 8 fps at 2032 x 1920<br>30 fps at 1280 x 720                                                             | 8 fps at 2032 x 1920<br>30 fps at 1280 x 720                                                             | 15 fps at 1920 x 1080<br>30 fps at 1280 x 720                                                            | 15 fps at 1920 x 1080<br>30 fps at 1280 x 720                                                             | 30 fps at 1280 x 720                                                                     | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                      | 30 fps at 1280 x 720                                                                     | 15 fps at 2048 x 1536<br>30 fps at 1920 x 1080                                                      | 15 fps at 2592 x 1944<br>30 fps at 1920 x 1080                                                      |
| Multi-Streaming                | Dual streams                                                                                             | Dual streams                                                                                             | Dual streams                                                                                             | Dual streams                                                                                              | Dual streams                                                                             | Dual streams                                                                                        | Dual streams                                                                             | Dual streams                                                                                        | Dual streams                                                                                        |
| Wide Dynamic Range             | No                                                                                                       | Advanced WDR (80 dB)                                                                                     | Advanced WDR (80 dB)                                                                                     | Advanced WDR                                                                                              | No                                                                                       | No                                                                                                  | Basic WDR (69 dB)                                                                        | Basic WDR (69 dB)                                                                                   | Basic WDR (69 dB)                                                                                   |
| Digital Noise Reduction        | DNR                                                                                                      | 2D+3D DNR                                                                                                | 2D+3D DNR                                                                                                | 2D+3D DNR                                                                                                 | DNR                                                                                      | DNR                                                                                                 | DNR                                                                                      | DNR                                                                                                 | DNR                                                                                                 |
| Audio                          | 2-way                                                                                                    | 2-way                                                                                                    | 2-way                                                                                                    | 2-way                                                                                                     | No                                                                                       | No                                                                                                  | 2-way, built-in microphone                                                               | 2-way, built-in microphone                                                                          | 2-way, built-in microphone                                                                          |
| Digital Input/Output           | 2/2                                                                                                      | 2/2                                                                                                      | 2/2                                                                                                      | 2/2                                                                                                       | No                                                                                       | No                                                                                                  | No                                                                                       | No                                                                                                  | No                                                                                                  |
| Serial Port                    | No                                                                                                       | RS-485, RS-422                                                                                           | RS-485, RS-422                                                                                           | RS-485, RS-422                                                                                            | -                                                                                        | -                                                                                                   | -                                                                                        | -                                                                                                   | -                                                                                                   |
| Local Storage                  | MicroSDHC<br>(card not included)                                                                         | MicroSDHC<br>(card not included)                                                                         | MicroSDHC<br>(card not included)                                                                         | MicroSDHC<br>(card not included)                                                                          | No                                                                                       | No                                                                                                  | No                                                                                       | No                                                                                                  | No                                                                                                  |
| Power Source                   | DC 12V; PoE Class 3                                                                                      | DC 12V; PoE Class 3                                                                                      | DC 12V; PoE Class 3                                                                                      | DC 12V; PoE Class 3                                                                                       | PoE Class 1                                                                              | PoE Class 2                                                                                         | PoE Class 2                                                                              | PoE Class 2                                                                                         | PoE Class 2                                                                                         |
| Environmental Casing           | No                                                                                                       | Weatherproof (IP66)                                                                                      | Weatherproof (IP66)                                                                                      | Weatherproof (IP66)                                                                                       | No                                                                                       | No                                                                                                  | No                                                                                       | No                                                                                                  | No                                                                                                  |
| Other Value-Added Features     | No                                                                                                       | Defogging                                                                                                | Defogging                                                                                                | Defogging                                                                                                 | -                                                                                        | -                                                                                                   | -                                                                                        | -                                                                                                   | -                                                                                                   |
| ONVIF Compliant                | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                      | Yes                                                                                                       | Yes                                                                                      | Yes                                                                                                 | Yes                                                                                      | Yes                                                                                                 | Yes                                                                                                 |
| Starting Temperature           | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                           | -20°C ~ 50°C<br>(-4°F ~ 122°F)<br>within 30 minutes                                                      | -10°C ~ 50°C<br>(14°F ~ 122°F)<br>within 30 minutes                                                      | -20°C ~ 50°C<br>(-4°F ~ 122°F)<br>within 30 minutes                                                       | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                           | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                                      | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                           | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                                      | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                                      |
| Operating Temperature          | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                           | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                          | -30°C ~ 50°C<br>(-22°F ~ 122°F)                                                                          | -40°C ~ 50°C<br>(-40°F ~ 122°F)                                                                           | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                           | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                                      | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                           | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                                      | -10°C ~ 45°C<br>(14°F ~ 113°F)                                                                      |
| Approvals                      | CE, FCC                                                                                                  | CE, FCC, IP66                                                                                            | CE, FCC, IP66                                                                                            | CE, FCC, IP66                                                                                             | CE, FCC                                                                                  | CE, FCC                                                                                             | CE, FCC                                                                                  | CE, FCC                                                                                             | CE, FCC                                                                                             |

|  | Video Encoder                                                                                                        | Video Decoder                                                                                                        |                                                                                     |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                 | 1 Channel                                                                                                            | 1 Channel                                                                                                            | 16 Channel                                                                          |
|                                                                                 |                                     |                                   |  |
| Model                                                                           | TCD-2100                                                                                                             | ACD-3100                                                                                                             | ECD-1000                                                                            |
| Compression                                                                     | H.264, MPEG-4 SP, MJPEG                                                                                              | MPEG-4 SP, MPEG-4 ASP                                                                                                | H.264                                                                               |
| Frame Rate vs. Resolution                                                       | 30 fps at 720 x 480 (NTSC)<br>25 fps at 720 x 576 (PAL)                                                              | 30 fps at 720 x 480 (NTSC)<br>25 fps at 720 x 576 (PAL)                                                              | 30 fps at 1920 x 1080<br>25 fps at 720 x 576                                        |
| Multi-Streaming                                                                 | Dual streams                                                                                                         | -                                                                                                                    | -                                                                                   |
| Audio                                                                           | No                                                                                                                   | 2-way                                                                                                                | No                                                                                  |
| Network Protocol & Service                                                      | TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour | TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP                                          |
| Network Connector                                                               | RJ-45                                                                                                                | RJ-45                                                                                                                | RJ-45                                                                               |
| Analog Video Input                                                              | BNC x 1                                                                                                              | -                                                                                                                    | -                                                                                   |
| Analog Video Output                                                             | No                                                                                                                   | BNC x 1; S-Video x 1                                                                                                 | 1, BNC                                                                              |
| HDMI Output                                                                     | -                                                                                                                    | No                                                                                                                   | 1, HDMI Type A                                                                      |
| Digital Input/Output                                                            | 1/1                                                                                                                  | 2/2                                                                                                                  | No                                                                                  |
| Serial Port                                                                     | RS-485, RS-422, RS-232                                                                                               | RS-485, RS-422, RS-232                                                                                               | No                                                                                  |
| Power Source                                                                    | DC 12V                                                                                                               | DC 12V                                                                                                               | DC 12V; PoE Class 3                                                                 |
| Bundled Accessories                                                             | -                                                                                                                    | -                                                                                                                    | Pole Mount                                                                          |
| Mount Type                                                                      | -                                                                                                                    | -                                                                                                                    | Surface, Pole, VESA 10x10                                                           |
| Local Access                                                                    | -                                                                                                                    | -                                                                                                                    | USB Mouse                                                                           |
| Remote Access                                                                   | Web Client (IE),<br>Mobile Client (iOS & Android)                                                                    | Web Client (IE)                                                                                                      | Web Client (IE),<br>Mobile Client (iOS & Android)                                   |
| Client PC Operating System                                                      | Windows 7, Windows Vista, Windows Server 2003, Windows XP                                                            | Windows 7, Windows Vista, Windows Server 2003, Windows XP                                                            | Windows 7, Windows Vista, Windows Server 2003, Windows XP                           |
| PC Web Browser                                                                  | IE 6, IE 7, IE 8, IE 9, IE 10                                                                                        | IE 6, IE 7, IE 8                                                                                                     | IE 9, IE 10                                                                         |
| ONVIF Compliant                                                                 | Yes                                                                                                                  | No                                                                                                                   | No                                                                                  |
| Starting Temperature                                                            | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                                       | 0°C ~ 50°C<br>(32°F ~ 122°F)                                                                                         | 0°C ~ 50°C<br>(32°F ~ 122°F)                                                        |
| Operating Temperature                                                           | -10°C ~ 50°C<br>(14°F ~ 122°F)                                                                                       | 0°C ~ 50°C<br>(32°F ~ 122°F)                                                                                         | 0°C ~ 50°C<br>(32°F ~ 122°F)                                                        |
| Approvals                                                                       | CE, FCC                                                                                                              | CE, FCC                                                                                                              | CE, FCC                                                                             |

# Video Management System

## Standalone NVR



| Model                      | ENR-1000                                                                                                         | ENR-1100                                                                                         | ENR-1200                                                                                                    | ENR-2000                                                                                                    | GNR-3000                                                                                                                                                         | INR-410                                                                                                                                                          | INR-420                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Number of Cameras  | 4                                                                                                                | 9                                                                                                | 16                                                                                                          | 16                                                                                                          | 64                                                                                                                                                               | 200                                                                                                                                                              | 200                                                                                                                                                              |
| Maximum Number of Clients  | 1 local, 2 remote                                                                                                | 1 local, 2 remote                                                                                | 1 local, 2 remote                                                                                           | 1 local, 2 remote                                                                                           | 1 local, 4 remote                                                                                                                                                | 1 local, 3 remote                                                                                                                                                | 1 local, 3 remote                                                                                                                                                |
| Free License               | 4                                                                                                                | 9                                                                                                | 16                                                                                                          | 16                                                                                                          | 32                                                                                                                                                               | 64                                                                                                                                                               | 64                                                                                                                                                               |
| Video Resolution           | Up to 2-Megapixel (Local display)<br>Up to 10-Megapixel (Remote display)                                         | Up to 2-Megapixel (Local display)<br>Up to 10-Megapixel (Remote display)                         | Up to 2-Megapixel (Local display)<br>Up to 10-Megapixel (Remote display)                                    | Up to 2-Megapixel (Local display)<br>Up to 10-Megapixel (Remote display)                                    | Support all ACTi cameras in all resolutions                                                                                                                      | Support all ACTi cameras in all resolutions                                                                                                                      | Support all ACTi cameras in all resolutions                                                                                                                      |
| Compression                | H.264                                                                                                            | H.264                                                                                            | H.264                                                                                                       | H.264                                                                                                       | H.264, MPEG-4, MJPEG                                                                                                                                             | H.264, MPEG-4, MJPEG                                                                                                                                             | H.264, MPEG-4, MJPEG                                                                                                                                             |
| Multi-Streaming            | No                                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | Dual streams                                                                                                                                                     | Dual streams                                                                                                                                                     | Dual streams                                                                                                                                                     |
| Scheduled Recording        | Yes                                                                                                              | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| Event Recording            | Yes                                                                                                              | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| Manual Recording           | Yes                                                                                                              | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| Speed Up                   | Yes                                                                                                              | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| Dual Stream Management     | No                                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| Recording Throughput       | 4 channels at 1080p/30fps                                                                                        | 9 channels at 1080p/30fps                                                                        | 16 channels at 1080p/30fps                                                                                  | 16 channels at 1080p/30fps                                                                                  | Maximum total bitrate 300 Mbps                                                                                                                                   | Maximum total bitrate 300 Mbps                                                                                                                                   | Maximum total bitrate 300 Mbps                                                                                                                                   |
| HDD Interface              | Maximum 2 SATA disks                                                                                             | Maximum 2 SATA disks                                                                             | Maximum 2 SATA disks                                                                                        | Maximum 4 SATA disks                                                                                        | Maximum 5 SATA disks<br>(1 system disk included)                                                                                                                 | Maximum 8 SATA disks<br>(1 system disk included)                                                                                                                 | Maximum 8 SATA disks<br>(1 system disk included)                                                                                                                 |
| External Storage Interface | No                                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | eSATA, iSCSI, USB                                                                                                                                                | eSATA, iSCSI, USB                                                                                                                                                | eSATA, iSCSI, USB                                                                                                                                                |
| RAID Level                 | No                                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | Software RAID 0, 1                                                                                                                                               | Software RAID 0, 1                                                                                                                                               | Hardware RAID 0, 1, 5, 10                                                                                                                                        |
| Display Layout Mode        | Local: 1, 2, 4<br>Remote: 1, 2, 4                                                                                | Local: 1, 2, 4, 9, 1+5, 1+7, 2+4<br>Remote: 1, 2, 4, 9, 1+5, 1+7, 2+4                            | Local: 1, 2, 4, 9, 12, 16, 1+5, 1+7, 1+12, 2+4, 2+8<br>Remote: 1, 2, 4, 9, 12, 16, 1+5, 1+7, 1+12, 2+4, 2+8 | Local: 1, 2, 4, 9, 12, 16, 1+5, 1+7, 1+12, 2+4, 2+8<br>Remote: 1, 2, 4, 9, 12, 16, 1+5, 1+7, 1+12, 2+4, 2+8 | Local: 1, 4, 5, 6, 8, 9, 10, 12, 16, Custom<br>Remote: 1, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, Custom                                      | Local: 1, 4, 6, 8, 9, 10, 12, 16, Custom<br>Remote: 1, 4, 9, 16, 25, 36, 49, 64, Custom                                                                          | Local: 1, 4, 6, 8, 9, 10, 12, 16, Custom<br>Remote: 1, 4, 9, 16, 25, 36, 49, 64, Custom                                                                          |
| Digital Zoom               | Yes                                                                                                              | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| Event Status               | Display event status upon alarm or upon connection loss or recovery between server and client                    | Display event status upon alarm or upon connection loss or recovery between server and client    | Display event status upon alarm or upon connection loss or recovery between server and client               | Display event status upon alarm or upon connection loss or recovery between server and client               | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full                           | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full                           | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full                           |
| Instant Playback           | Instant Playback in live view window (Remote client)                                                             | Instant Playback in live view window (Remote client)                                             | Instant Playback in live view window (Remote client)                                                        | Instant Playback in live view window (Remote client)                                                        | Instant Playback in live view window                                                                                                                             | Instant Playback in live view window                                                                                                                             | Instant Playback in live view window                                                                                                                             |
| e-Map                      | No                                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| PTZ Control                | Yes                                                                                                              | Yes                                                                                              | Yes                                                                                                         | Yes                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| Playback Control           | Continuous forward and backward playback with speeds 0.5x/1x/2x/4x/8x/16x/32x; pause; stop                       | Continuous forward and backward playback with speeds 0.5x/1x/2x/4x/8x/16x/32x; pause; stop       | Continuous forward and backward playback with speeds 0.5x/1x/2x/4x/8x/16x/32x; pause; stop                  | Continuous forward and backward playback with speeds 0.5x/1x/2x/4x/8x/16x/32x; pause; stop                  | Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop                                                                  | Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop                                                                  | Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop                                                                  |
| Synchronized Playback      | 4 channels                                                                                                       | 9 channels                                                                                       | 16 channels                                                                                                 | 16 channels                                                                                                 | 9 channels (local), 64 channels (remote)                                                                                                                         | 9 channels (local), 64 channels (remote)                                                                                                                         | 9 channels (local), 64 channels (remote)                                                                                                                         |
| Local Access               | HDMI monitor, USB keyboard & mouse                                                                               | HDMI monitor, USB keyboard & mouse                                                               | HDMI monitor, USB keyboard & mouse                                                                          | HDMI monitor, USB keyboard & mouse                                                                          | VGA port for monitor, USB joystick, keyboard & mouse                                                                                                             | HDMI & VGA port for monitor, USB joystick, keyboard & mouse                                                                                                      | HDMI & VGA port for monitor, USB joystick, keyboard & mouse                                                                                                      |
| Remote Access              | Web Client (IE),<br>Mobile Client (iOS & Android)                                                                | Web Client (IE),<br>Mobile Client (iOS & Android)                                                | Web Client (IE),<br>Mobile Client (iOS & Android)                                                           | Web Client (IE),<br>Mobile Client (iOS & Android)                                                           | Workstation, Web Client (IE),<br>Mobile Client (iOS & Android)                                                                                                   | Workstation, Web Client (IE),<br>Mobile Client (iOS & Android)                                                                                                   | Workstation, Web Client (IE),<br>Mobile Client (iOS & Android)                                                                                                   |
| Event Trigger              | Video motion detection; External device through digital input; Network loss and recovery; System-hard disk error | Video motion detection; External device through digital input; Network loss and recovery         | Video motion detection; External device through digital input; Network loss and recovery                    | Video motion detection; External device through digital input; Network loss and recovery                    | Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery; Server loss and recovery   | Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery; Server loss and recovery   | Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery; Server loss and recovery   |
| Event Response             | Record video; Beep; Digital output; E-mail with snapshots; Event logging; Go to PTZ preset point                 | Record video; Beep; Digital output; E-mail with snapshots; Event logging; Go to PTZ preset point | Record video; Beep; Digital output; E-mail with snapshots; Event logging; Go to PTZ preset point            | Record video; Beep; Digital output; E-mail with snapshots; Event logging; Go to PTZ preset point            | Record video; Pop-up window; Hotspot window; Audio alert; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Go to PTZ preset point | Record video; Pop-up window; Hotspot window; Audio alert; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Go to PTZ preset point | Record video; Pop-up window; Hotspot window; Audio alert; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Go to PTZ preset point |
| Permission Control         | Unlimited number of users, Customizable permissions for user groups                                              | Unlimited number of users, Customizable permissions for user groups                              | Unlimited number of users, Customizable permissions for user groups                                         | Unlimited number of users, Customizable permissions for user groups                                         | Unlimited number of users, Active Directory, Customizable permissions for user groups                                                                            | Unlimited number of users, Active Directory, Customizable permissions for user groups                                                                            | Unlimited number of users, Active Directory, Customizable permissions for user groups                                                                            |
| ONVIF Compliant            | No                                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | Yes (NVR3 v3.0.08 or newer version)                                                                                                                              | Yes (NVR3 v3.0.08 or newer version)                                                                                                                              | Yes (NVR3 v3.0.08 or newer version)                                                                                                                              |
| Video Export               | USB                                                                                                              | USB                                                                                              | USB                                                                                                         | USB                                                                                                         | eSATA, iSCSI, USB                                                                                                                                                | eSATA, iSCSI, USB                                                                                                                                                | eSATA, iSCSI, USB                                                                                                                                                |
| Server Operating System    | Embedded Linux                                                                                                   | Embedded Linux                                                                                   | Embedded Linux                                                                                              | Embedded Linux                                                                                              | Embedded Windows 7                                                                                                                                               | Embedded Windows 7                                                                                                                                               | Embedded Windows 7                                                                                                                                               |
| Client PC Operating System | Windows 8, Windows 7                                                                                             | Windows 8, Windows 7                                                                             | Windows 8, Windows 7                                                                                        | Windows 8, Windows 7                                                                                        | Windows 8, Windows 7, Windows Server 2012                                                                                                                        | Windows 8, Windows 7, Windows Server 2012                                                                                                                        | Windows 8, Windows 7, Windows Server 2012                                                                                                                        |
| PC Web Browser             | IE 9, IE 10, IE 11                                                                                               | IE 9, IE 10, IE 11                                                                               | IE 9, IE 10, IE 11                                                                                          | IE 9, IE 10, IE 11                                                                                          | IE 8, IE 9, IE 10                                                                                                                                                | IE 8, IE 9, IE 10                                                                                                                                                | IE 8, IE 9, IE 10                                                                                                                                                |
| ONVIF Compliant            | No                                                                                                               | No                                                                                               | No                                                                                                          | No                                                                                                          | Yes                                                                                                                                                              | Yes                                                                                                                                                              | Yes                                                                                                                                                              |
| Operating Temperature      | 0°C ~ 40°C<br>(32°F ~ 104°F)                                                                                     | 0°C ~ 40°C<br>(32°F ~ 104°F)                                                                     | 0°C ~ 40°C<br>(32°F ~ 104°F)                                                                                | 0°C ~ 40°C<br>(32°F ~ 104°F)                                                                                | 0°C ~ 40°C<br>(32°F ~ 104°F)                                                                                                                                     | 0°C ~ 40°C<br>(32°F ~ 104°F)                                                                                                                                     | 0°C ~ 40°C<br>(32°F ~ 104°F)                                                                                                                                     |
| Approvals                  | CE/FCC                                                                                                           | CE/FCC                                                                                           | CE/FCC                                                                                                      | CE/FCC                                                                                                      | CE/FCC                                                                                                                                                           | CE/FCC                                                                                                                                                           | CE/FCC                                                                                                                                                           |

|  | Video Management System                                                                                                                                                                     |                                                                                                                                                                                             |                                                                                                                                                                  |                                                                                                                                        |                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                 | Software NVR                                                                                                                                                                                |                                                                                                                                                                                             |                                                                                                                                                                  | Central Management System                                                                                                              |                                                                                                                                                                                                                             |
|                                                                                 |                                                                                                            |                                                                                                            |                                                                               |                                                     |                                                                                                                                          |
| Model                                                                           | NVR 2.3 Ent                                                                                                                                                                                 | NVR 2.3 Pro                                                                                                                                                                                 | NVR 3.0                                                                                                                                                          | CMS 1.0 *                                                                                                                              | CMS 2.0 **                                                                                                                                                                                                                  |
| Maximum Number of Cameras                                                       | 64                                                                                                                                                                                          | 64                                                                                                                                                                                          | 100                                                                                                                                                              | Unlimited                                                                                                                              | Unlimited                                                                                                                                                                                                                   |
| Maximum Number of Clients                                                       | 1 local, 5 remote (concurrent)                                                                                                                                                              | 1 local                                                                                                                                                                                     | 1 local, 5 remote (concurrent)                                                                                                                                   | 1 local, 5 remote (concurrent)                                                                                                         | 1 local, 5 remote (concurrent)                                                                                                                                                                                              |
| Free License                                                                    | 16                                                                                                                                                                                          | 64                                                                                                                                                                                          | 16                                                                                                                                                               | 0                                                                                                                                      | 0                                                                                                                                                                                                                           |
| Video Resolution                                                                | Up to 5-Megapixel                                                                                                                                                                           | Up to 5-Megapixel                                                                                                                                                                           | Support all ACTi cameras in all resolutions                                                                                                                      | Up to 5-Megapixel                                                                                                                      | Support all ACTi cameras in all resolutions                                                                                                                                                                                 |
| Compression                                                                     | H.264, MPEG-4, MJPEG                                                                                                                                                                        | H.264, MPEG-4, MJPEG                                                                                                                                                                        | H.264, MPEG-4, MJPEG                                                                                                                                             | H.264, MPEG-4, MJPEG                                                                                                                   | H.264, MPEG-4, MJPEG                                                                                                                                                                                                        |
| Multi-Streaming                                                                 | Dual streams                                                                                                                                                                                | Dual streams                                                                                                                                                                                | Dual streams                                                                                                                                                     | Dual streams                                                                                                                           | Dual streams                                                                                                                                                                                                                |
| Scheduled Recording                                                             | Yes                                                                                                                                                                                         | Yes                                                                                                                                                                                         | Yes                                                                                                                                                              | -                                                                                                                                      | -                                                                                                                                                                                                                           |
| Event Recording                                                                 | Yes                                                                                                                                                                                         | Yes                                                                                                                                                                                         | Yes                                                                                                                                                              | -                                                                                                                                      | -                                                                                                                                                                                                                           |
| Manual Recording                                                                | Yes                                                                                                                                                                                         | Yes                                                                                                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                    | Yes                                                                                                                                                                                                                         |
| Speed Up                                                                        | No                                                                                                                                                                                          | No                                                                                                                                                                                          | Yes                                                                                                                                                              | -                                                                                                                                      | -                                                                                                                                                                                                                           |
| Dual Stream Management                                                          | Yes                                                                                                                                                                                         | Yes                                                                                                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                    | Yes                                                                                                                                                                                                                         |
| Recording Throughput                                                            | 64 channels at 5MP/15fps                                                                                                                                                                    | 64 channels at 5MP/15fps                                                                                                                                                                    | 100 channels at 5MP/15fps                                                                                                                                        | -                                                                                                                                      | -                                                                                                                                                                                                                           |
| Display Layout Mode                                                             | 1, 4, 6, 8, 9, 12, 16, 36, 48, 49, 64                                                                                                                                                       | 1, 4, 6, 8, 9, 12, 16, 36, 48, 49, 64                                                                                                                                                       | 1, 4, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, Custom                                                                                                | 1, 4, 6, 8, 9, 12, 16, 36, 48, 49, 64                                                                                                  | 1, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, Custom                                                                                                                                                        |
| Digital Zoom                                                                    | Yes                                                                                                                                                                                         | Yes                                                                                                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                    | Yes                                                                                                                                                                                                                         |
| Event Status                                                                    | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full                                                      | Display event status upon alarm or when the allocated disk space is full                                                                                                                    | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full                           | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full                                                                                      |
| Instant Playback                                                                | No                                                                                                                                                                                          | No                                                                                                                                                                                          | Instant Playback in live view window                                                                                                                             | No                                                                                                                                     | Instant Playback in live view window                                                                                                                                                                                        |
| e-Map                                                                           | Yes                                                                                                                                                                                         | Yes                                                                                                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                    | Yes                                                                                                                                                                                                                         |
| PTZ Control                                                                     | Yes                                                                                                                                                                                         | Yes                                                                                                                                                                                         | Yes                                                                                                                                                              | Yes                                                                                                                                    | Yes                                                                                                                                                                                                                         |
| Playback Control                                                                | Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop                                                                                                        | Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop                                                                                                        | Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop                                                                  | Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop                                                   | Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop                                                                                                                             |
| Synchronized Playback                                                           | 4 channels                                                                                                                                                                                  | 4 channels                                                                                                                                                                                  | 64 channels                                                                                                                                                      | 4 channels                                                                                                                             | 64 channels                                                                                                                                                                                                                 |
| Local Access                                                                    | monitor, joystick, keyboard & mouse                                                                                                                                                         | monitor, joystick, keyboard & mouse                                                                                                                                                         | monitor, joystick, keyboard & mouse                                                                                                                              | monitor, joystick, keyboard & mouse                                                                                                    | monitor, joystick, keyboard & mouse                                                                                                                                                                                         |
| Remote Access                                                                   | Workstation, Web Client (IE), Mobile Client (iOS)                                                                                                                                           | Workstation, Web Client (IE)                                                                                                                                                                | Workstation, Web Client (IE), Mobile Client (iOS & Android)                                                                                                      | Workstation, Web Client (IE)                                                                                                           | Workstation, Web Client (IE), Mobile Client (iOS & Android)                                                                                                                                                                 |
| Event Trigger                                                                   | Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery                                                        | Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery                                                        | Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery; Server loss and recovery   | Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery   | NVR: Source loss and recovery; Schedule service start and stop; Disk status<br>Device: Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery |
| Event Response                                                                  | Record video; Pop-up window; Hotspot window; Play audio file or Beep; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Event logging; Go to PTZ preset point | Record video; Pop-up window; Hotspot window; Play audio file or Beep; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Event logging; Go to PTZ preset point | Record video; Pop-up window; Hotspot window; Audio alert; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Go to PTZ preset point | Pop-up window; Hotspot window; Play audio file or Beep                                                                                 | NVR: Play beep sound; Execute system command to activate other programs; E-mail notification<br>Device: Pop-up window with live video; Switch to hotspot window; Play beep sound; Switch view; Send view to TV Wall         |
| Permission Control                                                              | Unlimited number of users, Active Directory, Customizable permissions for user groups                                                                                                       | Unlimited number of users, Active Directory, Customizable permissions for user groups                                                                                                       | Unlimited number of users, Active Directory, Customizable permissions for user groups                                                                            | Unlimited number of users, Active Directory, Customizable permissions for user groups                                                  | Unlimited number of users, Active Directory, Customizable permissions for user groups                                                                                                                                       |
| Server Operating System                                                         | Windows 7                                                                                                                                                                                   | Windows 7                                                                                                                                                                                   | Windows 8, Windows 7, Windows Server 2012                                                                                                                        | Windows 7                                                                                                                              | Windows 8, Windows 7, Windows Server 2012                                                                                                                                                                                   |
| Client PC Operating System                                                      | Windows 7                                                                                                                                                                                   | Windows 7                                                                                                                                                                                   | Windows 8, Windows 7, Windows Server 2012                                                                                                                        | Windows 7                                                                                                                              | Windows 8, Windows 7, Windows Server 2012                                                                                                                                                                                   |
| PC Web Browser                                                                  | IE 8, IE 9                                                                                                                                                                                  | IE 8, IE 9                                                                                                                                                                                  | IE 8, IE 9, IE 10                                                                                                                                                | IE 8, IE 9                                                                                                                             | IE 8, IE 9, IE 10                                                                                                                                                                                                           |
| ONVIF Compliant                                                                 | No                                                                                                                                                                                          | No                                                                                                                                                                                          | Yes<br>(Support ONVIF Compliant cameras with NVR3 v3.0.08 or newer version)                                                                                      | No                                                                                                                                     | Yes<br>(Support ONVIF Compliant cameras with NVR3 v3.0.08 or newer version)                                                                                                                                                 |

\* Fully compatible with ACTi cameras, encoders and NVR Enterprise 2.3

\*\* Fully compatible with ACTi cameras, encoders, NVR 3.0 and standalone NVRs.

# 2014 Product Roadmap Matrix

## D/E Series

| Product Type            |                   |       | Cube                                                                              |     | Box                                                                               |      |            |      | Bullet                                                                             |     |            |             | Mini Dome                                                                           |     |               | Dome                                                                                |     |            |      |             |     |            |     | Mini Fisheye Dome                                                                   |               |
|-------------------------|-------------------|-------|-----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|------|------------|------|------------------------------------------------------------------------------------|-----|------------|-------------|-------------------------------------------------------------------------------------|-----|---------------|-------------------------------------------------------------------------------------|-----|------------|------|-------------|-----|------------|-----|-------------------------------------------------------------------------------------|---------------|
|                         |                   |       |  |     |  |      |            |      |  |     |            |             |  |     |               |  |     |            |      |             |     |            |     |  |               |
| Application Environment |                   |       | Indoor                                                                            |     | Indoor/Outdoor                                                                    |      |            |      | Outdoor                                                                            |     |            |             | Indoor                                                                              |     | Outdoor       | Indoor                                                                              |     |            |      | Outdoor     |     |            |     | Indoor                                                                              | Outdoor       |
| Lens                    |                   |       | Fixed focal                                                                       |     | Fixed focal                                                                       |      | Vari-focal |      | Fixed focal                                                                        |     | Vari-focal |             | Fixed focal                                                                         |     | Fixed focal   | Fixed focal                                                                         |     | Vari-focal |      | Fixed focal |     | Vari-focal |     | Fixed focal                                                                         | Fixed focal   |
| Product Platfrom        |                   |       | D1x                                                                               | E1x | D2x                                                                               | E2x  | D2x        | E2x  | D3x                                                                                | E3x | D4x        | E4x         | D9x                                                                                 | E9x | E9x           | D5x                                                                                 | E5x | D6x        | E6x  | D7x         | E7x | D8x        | E8x | E9x                                                                                 | E9x           |
| Day Only                | Standard          | 1MP   | D11                                                                               | E11 |                                                                                   |      |            |      |                                                                                    |     |            |             | D91                                                                                 | E91 |               | D51                                                                                 | E51 |            |      |             |     |            |     |                                                                                     |               |
|                         |                   | 3MP   | D12                                                                               | E12 |                                                                                   |      |            |      |                                                                                    |     |            |             | D92                                                                                 | E92 |               | D52                                                                                 |     |            |      |             |     |            |     |                                                                                     |               |
|                         |                   | 5MP   |                                                                                   | E13 |                                                                                   |      |            |      |                                                                                    |     |            |             |                                                                                     | E93 | E920<br>E920M |                                                                                     |     |            |      |             |     |            |     | E96                                                                                 | E921<br>E921M |
|                         |                   | 10MP  |                                                                                   | E14 |                                                                                   |      |            |      |                                                                                    |     |            |             |                                                                                     | E97 | E922<br>E922M |                                                                                     |     |            |      |             |     |            |     |                                                                                     | E923<br>E923M |
|                         | Super Low Light   | 1.3MP |                                                                                   |     |                                                                                   |      |            |      |                                                                                    |     |            |             |                                                                                     | E94 |               |                                                                                     |     | D61        | E66  |             |     |            |     |                                                                                     |               |
|                         |                   | 2MP   |                                                                                   |     |                                                                                   |      |            |      |                                                                                    |     |            |             |                                                                                     | E95 |               |                                                                                     |     | D62        | E67  |             |     |            |     |                                                                                     |               |
|                         | Complicated Light | 3MP   |                                                                                   |     |                                                                                   |      |            |      |                                                                                    |     |            |             |                                                                                     |     |               | E918<br>E918M                                                                       |     |            |      |             |     |            |     |                                                                                     |               |
| Day & Night             | Standard          | 1MP   |                                                                                   |     | D21F                                                                              | E21F | D21V       | E21V | D31                                                                                | E31 | D41        | E41<br>E41A |                                                                                     |     |               | D54                                                                                 | E52 | D64        | E61  | D71         | E71 | D81        | E81 |                                                                                     |               |
|                         |                   | 3MP   |                                                                                   |     |                                                                                   |      |            |      | D32                                                                                | E32 | D42        | E42A        |                                                                                     |     |               | D55                                                                                 | E53 | D65        | E62  | D72         | E72 | D82        | E82 |                                                                                     |               |
|                         |                   | 5MP   |                                                                                   |     | D22F                                                                              | E22F | D22V       | E22V |                                                                                    | E33 |            | E43A        |                                                                                     |     |               |                                                                                     | E54 |            | E63  |             | E73 |            | E83 |                                                                                     |               |
|                         |                   | 10MP  |                                                                                   |     |                                                                                   | E270 |            | E271 |                                                                                    | E37 |            | E48         |                                                                                     |     |               |                                                                                     | E59 |            | E610 |             | E77 |            | E89 |                                                                                     |               |
|                         | Super Low Light   | 1.3MP |                                                                                   |     |                                                                                   |      |            | E25  |                                                                                    |     |            | E47         |                                                                                     |     |               |                                                                                     | E57 |            | E68  |             | E75 |            | E88 |                                                                                     |               |
|                         |                   | 2MP   |                                                                                   |     |                                                                                   |      |            | E23  |                                                                                    |     |            | E44         |                                                                                     |     |               |                                                                                     | E58 |            | E69  |             | E76 |            | E84 |                                                                                     |               |
|                         | Complicated Light | 1MP   |                                                                                   |     |                                                                                   |      |            |      |                                                                                    |     |            | E45         |                                                                                     |     |               |                                                                                     |     |            | E64  |             |     |            | E85 |                                                                                     |               |
|                         |                   | 3MP   |                                                                                   |     |                                                                                   |      |            | E24  |                                                                                    | E34 |            | E46         |                                                                                     |     |               |                                                                                     | E56 |            | E65  |             | E74 |            | E86 |                                                                                     |               |

Available  
Now

Available in  
Q2, 2014

The availability information here is for reference only. Please visit our website at [www.acti.com](http://www.acti.com) for the latest information.

# 2014 Product Roadmap Matrix

## B/I Series

| Product Type            |                                        |       | Zoom Box                                                                          | Zoom Bullet                                                                       | Dome                                                                              | Zoom Dome                                                                                                                                                             |             |              | Fisheye Dome                                                                        | Hemispheric Dome                                                                    |             | Mini PTZ                                                                            | PTZ                                                                                 |              | Speed Dome                                                                          |
|-------------------------|----------------------------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
|                         |                                        |       |  |  |  |   |             |              |  |  |             |  |  |              |  |
| Application Environment |                                        |       | Indoor/Outdoor                                                                    | Outdoor                                                                           | Indoor                                                                            | Indoor                                                                                                                                                                | Outdoor     |              | Indoor                                                                              | Indoor                                                                              | Outdoor     | Outdoor                                                                             | Indoor                                                                              | Outdoor      | Outdoor                                                                             |
| Lens                    |                                        |       | Zoom                                                                              | Zoom                                                                              | Fixed focal                                                                       | Zoom                                                                                                                                                                  | Zoom        |              | Fixed focal                                                                         | Fixed focal                                                                         | Fixed focal | Zoom                                                                                | Zoom                                                                                | Zoom         | Zoom                                                                                |
| Product Platform        |                                        |       | B2x                                                                               | B4x                                                                               | B5x                                                                               | B6x                                                                                                                                                                   | B8x         | I8x          | B5x                                                                                 | I5x                                                                                 | I7x         | B9x                                                                                 | I9x                                                                                 | I9x          | I9x                                                                                 |
| Day & Night             | Standard                               | 5MP   | B21<br>(12x)                                                                      | B41<br>(12x)                                                                      | B51                                                                               | B61<br>(3x)                                                                                                                                                           | B81<br>(3x) |              |                                                                                     |                                                                                     |             | B96<br>(10x)                                                                        |                                                                                     |              |                                                                                     |
|                         |                                        | 10MP  |                                                                                   |                                                                                   | B52                                                                               |                                                                                                                                                                       |             |              | B55                                                                                 |                                                                                     |             |                                                                                     |                                                                                     |              |                                                                                     |
|                         | Super Low Light                        | 1.3MP | B24<br>(10x)                                                                      | B44<br>(10x)                                                                      |                                                                                   | B64<br>(3x)                                                                                                                                                           | B84<br>(3x) |              |                                                                                     |                                                                                     |             | B94<br>(10x)                                                                        |                                                                                     |              |                                                                                     |
|                         |                                        | 2MP   | B25<br>(10x)                                                                      | B45<br>(10x)                                                                      |                                                                                   | B65<br>(3x)                                                                                                                                                           | B85<br>(3x) |              |                                                                                     |                                                                                     |             | B95<br>(10x)                                                                        |                                                                                     |              |                                                                                     |
|                         | Complicated Light                      | 3MP   | B27<br>(12x)                                                                      | B47<br>(12x)                                                                      | B53                                                                               | B67<br>(3x)                                                                                                                                                           | B87<br>(3x) |              | B56                                                                                 |                                                                                     |             | B97<br>(10x)                                                                        |                                                                                     |              |                                                                                     |
|                         | Complicated Light<br>+ Super Low Light | 1MP   |                                                                                   |                                                                                   |                                                                                   |                                                                                                                                                                       |             | I84<br>(10x) |                                                                                     |                                                                                     |             |                                                                                     | I91<br>(30x)                                                                        | I93<br>(30x) | I95<br>(30x)                                                                        |
|                         |                                        | 2MP   |                                                                                   |                                                                                   |                                                                                   |                                                                                                                                                                       |             | I85<br>(10x) |                                                                                     |                                                                                     |             |                                                                                     | I92<br>(30x)                                                                        | I94<br>(30x) | I96<br>(30x)                                                                        |
|                         |                                        | 5MP   |                                                                                   |                                                                                   |                                                                                   |                                                                                                                                                                       |             |              |                                                                                     |                                                                                     | I51         | I71                                                                                 |                                                                                     |              |                                                                                     |

Available  
Now

Available in  
Q2, 2014

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## Mounting Accessory Matrix

| Camera Type                        | Camera Installation Series                                                         |                                                                                     | Example Models                                        | Target Surface    | Mounting Method |               |       |          |         |                |                |              |              |                       |                               |  |
|------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------|-----------------|---------------|-------|----------|---------|----------------|----------------|--------------|--------------|-----------------------|-------------------------------|--|
|                                    |                                                                                    |                                                                                     |                                                       |                   | Surface         | Rough Surface | Flush | Gang Box | Pendant | Tilted Mount   | Accessory Set* | By L-Bracket | By Bracket   | By Integrated Bracket | 1.5" NPT Third Party Solution |  |
| Cube                               | Cube                                                                               |    | D1x, E1x                                              | Ceiling           |                 |               |       |          |         |                |                |              | Y            |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               |       |          |         |                |                | Y            |              |                       |                               |  |
| Box                                | Indoor Box                                                                         |    | D2xx, E2x, E2xx, KCM-5211                             | Ceiling           |                 |               |       |          |         |                |                |              | Y            |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               |       |          |         |                |                | Y            |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       |          |         | Y (w/ Housing) |                |              |              |                       |                               |  |
|                                    | Outdoor-Ready Box                                                                  |    | KCM-5211E, KCM-5511, KCM-5611                         | Wall              |                 |               |       |          |         |                | Y              |              | Y            |                       |                               |  |
| Bullet                             | Bullet with Bundled Removable Bracket                                              |    | D3x, D4x, E3x, E47, E41x ~ E43x                       | Ceiling           |                 |               |       |          |         |                |                |              | Y            |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               |       |          |         |                |                | Y            |              | Y                     |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       |          |         |                |                |              |              |                       |                               |  |
|                                    | Bullet with Integrated Bracket                                                     |    | B4x, E44 ~ E46                                        | Ceiling           |                 |               |       | Y        |         |                |                |              | Y (B4x only) | Y                     |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               | Y     |          |         |                |                |              | Y            |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       |          |         | Y              |                |              |              |                       |                               |  |
| Dome                               | Mini Dome & Mini Fisheye Dome                                                      |    | D9x, E9x, ACM-3701E                                   | Ceiling           | Y               |               |       | Y        |         |                |                |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              | Y               |               |       | Y        |         |                |                |              |              |                       |                               |  |
|                                    | Indoor Dome                                                                        |    | B5x, D5x, E5x B6x, D6x, E6x KCM-3311, TCM-3111        | Ceiling           | Y               |               | Y     | Y        | Y       |                |                |              |              |                       | Y                             |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              | Y               |               |       | Y        |         |                | Y              | Y            |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       | Y        |         | Y              |                |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Corner            |                 |               |       |          |         | Y              |                |              |              |                       |                               |  |
|                                    | Outdoor Dome                                                                       |    | D7x, D8x, E7x, E8x, B8x, ACM-7411, KCM-7111, KCM-7311 | Ceiling           | Y               |               | Y     | Y        | Y       |                |                |              |              |                       | Y                             |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               |       |          |         |                | Y              | Y            |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       |          | Y       |                | Y              |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Corner            |                 |               |       |          |         | Y              |                |              |              |                       |                               |  |
|                                    | Indoor Hemispheric & Fisheye Dome                                                  |    | B55, B56, KCM-3911                                    | Ceiling           | Y               |               | Y     | Y        | Y       |                |                |              |              |                       | Y                             |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               |       |          |         | Y              | Y              |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       |          | Y       | Y              |                |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Corner            |                 |               |       |          |         | Y              |                |              |              |                       |                               |  |
| Outdoor Hemispheric & Fisheye Dome |  | KCM-7911                                                                            | Ceiling                                               | Y                 | Y               |               | Y     |          |         |                |                |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     | Wall                                                  |                   |                 |               |       |          | Y       |                |                |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     | Pole                                                  |                   |                 |               |       |          | Y       |                |                |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     | Corner                                                |                   |                 |               |       |          | Y       |                |                |              |              |                       |                               |  |
| PTZ                                | Outdoor Mini PTZ                                                                   |  | B94, B95, B96, B97                                    | Ceiling           | Y               |               | Y     | Y        |         |                |                |              |              |                       | Y                             |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               |       |          |         |                | Y              | Y            |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       |          | Y       |                | Y              |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Corner            |                 |               |       |          |         |                | Y              |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Rooftop / Parapet |                 |               |       |          |         |                |                |              |              |                       | Y                             |  |
|                                    | Indoor PTZ                                                                         |  | I91, I92, KCM-8111                                    | Ceiling           | Y               |               | Y     |          | Y       |                |                |              |              |                       | Y                             |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               |       |          |         |                | Y              | Y            |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       |          | Y       |                | Y              |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Corner            |                 |               |       |          |         |                | Y              |              |              |                       |                               |  |
|                                    | Outdoor PTZ & Speed Dome                                                           |  | I93 ~ I96, KCM-8211, TCM-6630                         | Ceiling           |                 |               |       |          | Y       |                |                |              |              |                       | Y                             |  |
|                                    |                                                                                    |                                                                                     |                                                       | Wall              |                 |               |       |          |         |                | Y              |              |              |                       |                               |  |
|                                    |                                                                                    |                                                                                     |                                                       | Pole              |                 |               |       |          | Y       |                | Y              |              |              |                       |                               |  |
| Corner                             |                                                                                    |                                                                                     |                                                       |                   |                 |               |       |          |         | Y              |                |              |              |                       |                               |  |
| Rooftop / Parapet                  |                                                                                    |                                                                                     |                                                       |                   |                 |               |       |          |         |                |                |              |              | Y                     |                               |  |

## Popular Mounting Accessory Sets

|        |         | Ceiling                                                                                                                                        | Wall                                                                                                                                                          | Pole                                                                                                                                                           | Corner                                                                                                                                                           |
|--------|---------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dome   |         | <b>PMAX-10xx</b><br>Flush Mount                               | <b>SMAX-0150</b><br>Heavy Duty Wall Mount and Mount Kit                    | <b>SMAX-0144</b><br>Pole Mount with Heavy Duty and Mount Kit                | <b>SMAX-0041</b><br>Corner Mount with Heavy Duty and Mount Kit                |
|        |         | <b>SMAX-0053</b><br>Pendant Mount with Bracket and Mount Kit  | <b>SMAX-0089</b><br>Junction Box with Heavy Duty Wall Mount and Mount Kit  | <b>SMAX-0134</b><br>Pole Mount with Junction Box, Heavy Duty and Mount Kit  | <b>SMAX-0031</b><br>Corner Mount with Junction Box, Heavy Duty and Mount Kit  |
| PTZ    | Outdoor | <b>SMAX-0067</b><br>Junction Box with Pendant Mount           | <b>SMAX-0083</b><br>Junction Box with Heavy Duty Wall Mount                | <b>SMAX-0096</b><br>Pole Mount with Pendant Mount                           | <b>SMAX-0035</b><br>Corner Mount with Heavy Duty                              |
|        | Indoor  | <b>SMAX-0054</b><br>Pendant Mount with Mount Kit             | <b>SMAX-0151</b><br>Heavy Duty Wall Mount with Mount Kit                  | <b>SMAX-0145</b><br>Pole Mount with Heavy Duty and Mount Kit               | <b>SMAX-0042</b><br>Corner Mount with Heavy Duty and Mount Kit               |
| Bullet |         | <b>PMAX-1300</b><br>Ceiling Bracket                         | <b>PMAX-0806</b><br>Gangbox Converter                                    | <b>SMAX-0092</b><br>Pole Mount with Mounting Bracket                      | <b>SMAX-0005</b><br>Corner Mount with Mounting Bracket                      |
| Box    |         | <b>PMAX-1104</b><br>Bracket                                 | <b>SMAX-0001</b><br>Wall Mount Bracket with Housing                      | <b>SMAX-0093</b><br>Pole Mount with Mounting Bracket and Housing          | <b>SMAX-0006</b><br>Corner Mount with Mounting Bracket and Housing          |

These are some of the most commonly used accessory sets. Please visit <http://www.acti.com/mountingselector> for more mounting accessory solutions.

|  | Optional Lenses                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
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|                                                                                 |  |  |  |  |  |  |  |  |  |  |
| Model                                                                           | PLEN-0101                                                                         | PLEN-0114                                                                         | PLEN-0119                                                                         | PLEN-0121                                                                         | PLEN-0127                                                                           | PLEN-0130                                                                           | PLEN-0131                                                                           | PLEN-0205                                                                           | PLEN-4103                                                                           | PLEN-4104                                                                           |
| Product Type                                                                    | Fixed Lens                                                                        | Fixed Lens                                                                        | Fixed Lens                                                                        | Fixed Lens                                                                        | Vari-focal Lens                                                                     | Fixed Lens                                                                          | Vari-focal Lens                                                                     | Vari-focal Lens                                                                     | Fixed Lens                                                                          | Fixed Lens                                                                          |
| Day / Night                                                                     | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                                 | No                                                                                  | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 |
| Lens Mount                                                                      | CS Mount                                                                          | Board Mount                                                                       | CS Mount                                                                          | Board Mount                                                                       | CS Mount                                                                            | CS Mount                                                                            | CS Mount                                                                            | C Mount (C to CS adapter included)                                                  | Board Mount                                                                         | Board Mount                                                                         |
| Focal Length                                                                    | Fixed focal, f4.2mm                                                               | Fixed focal, f4.2mm                                                               | Fixed focal, f2.8mm                                                               | Fixed focal, f2.8mm                                                               | Vari-focal, f2.8-12mm                                                               | Fixed focal, f2.93mm                                                                | Vari-focal, f3.3-9mm                                                                | Vari-focal, f8-80mm                                                                 | Fixed focal, f8.0mm                                                                 | Fixed focal, f6.0mm                                                                 |
| Iris                                                                            | Fixed iris, F1.8                                                                  | Fixed iris, F1.8                                                                  | Fixed iris, F2.0                                                                  | Fixed iris, F2.0                                                                  | DC iris, F1.4                                                                       | Fixed iris, F2.0                                                                    | Fixed iris, F1.4                                                                    | DC iris, F1.6                                                                       | Fixed iris, F1.8                                                                    | Fixed iris, F1.8                                                                    |
| Focus                                                                           | Manual focus                                                                      | Fixed focus (adjustable back focus)                                               | Manual focus                                                                      | Fixed focus (adjustable back focus)                                               | Manual focus                                                                        | Manual focus                                                                        | Manual focus                                                                        | Manual focus                                                                        | Fixed focus (adjustable back focus)                                                 | Fixed focus (adjustable back focus)                                                 |
| Supported Models                                                                | D22F<br>D22V<br>E12<br>E13<br>E22F                                                | D91<br>D92<br>E91<br>E92                                                          | D21F<br>D21V<br>E11<br>E21F                                                       | TCM-3111                                                                          | D21F<br>D21V<br>D22F<br>D22V<br>E21F<br>E22F                                        | D21F<br>D21V<br>E21F                                                                | E11<br>E12<br>E13                                                                   | D21F<br>D21V<br>D22F<br>D22V<br>E21F<br>E22F<br>E23<br>E24<br>E25                   | D91<br>D92<br>E91<br>E92                                                            | D91<br>D92<br>E91<br>E92                                                            |

|  | Optional Dome Covers                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
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|                                                                                  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |
| Model                                                                            | PDCX-0001                                                                         | PDCX-0101                                                                         | PDCX-0103                                                                         | PDCX-0104                                                                         | PDCX-0105                                                                         | PDCX-1001                                                                          | PDCX-1005                                                                           | PDCX-1101                                                                                                                       | PDCX-1102                                                                           | PDCX-1105                                                                           | PDCX-1106                                                                           | PDCX-1107                                                                           | PDCX-1108                                                                           | PDCX-1109                                                                           |
| Product Type                                                                     | Transparent Cover                                                                 | Smoked Cover                                                                      | Smoked Cover                                                                      | Smoked Cover                                                                      | Smoked Cover                                                                      | Transparent Cover                                                                  | Transparent Cover                                                                   | Smoked Cover                                                                                                                    | Smoked Cover                                                                        | Smoked Cover                                                                        | Smoked Cover                                                                        | Smoked Cover                                                                        | Smoked Cover                                                                        | Smoked Cover                                                                        |
| Description                                                                      | Transparent Dome Cover for TCM-6630                                               | 3-inch Smoked Dome Cover                                                          | Smoked Dome Cover for TCM-6630                                                    | 3-inch Smoked Dome Cover                                                          | 3-inch Smoked Dome Cover                                                          | Transparent Dome Cover for TCM-6630                                                | Transparent Dome Cover for I93, I94, I95, I96                                       | 4-inch Smoked Dome Cover                                                                                                        | 2-inch Smoked Dome Cover with casing for ACM-3701E                                  | Indoor PTZ Smoked Dome Cover                                                        | 2-inch Smoked Dome Cover                                                            | Smoked Dome Cover for KCM-8211                                                      | Smoked Dome Cover for I93, I94, I95, I96                                            | Smoked Dome Cover for DE6X/7X/B6X/ B8X/B9X                                          |
| Material                                                                         | Plastic                                                                           | Plastic                                                                           | Plastic                                                                           | Plastic                                                                           | Plastic                                                                           | Plastic                                                                            | Plastic/Aluminum                                                                    | Plastic                                                                                                                         | Plastic                                                                             | Plastic/Aluminum                                                                    | Plastic                                                                             | Plastic/Aluminum                                                                    | Plastic/Aluminum                                                                    | Plastic                                                                             |
| Dimension                                                                        | 145 mm (5.71")                                                                    | 96 mm (3.78")                                                                     | 145 mm (5.71")                                                                    | 96 mm (3.78")                                                                     | 96 mm (3.78")                                                                     | 145 mm (5.71")                                                                     | 188 x 127 mm (7.4" x 5")                                                            | 107.8 mm (4.25")                                                                                                                | 100 mm (3.94")                                                                      | 134 x 77 mm (5.28" x 3.03")                                                         | 54 mm (2.13")                                                                       | 180 x 120 mm (7" x 4.7")                                                            | 188 x 127 mm (7.4" x 5")                                                            | 107.8 mm (4.25")                                                                    |
| Weight                                                                           | 0.625kg (1.38lb)                                                                  | 0.23kg (0.51lb)                                                                   | 0.625kg (1.38lb)                                                                  | 0.52kg (1.15lb)                                                                   | 0.49kg (1.08lb)                                                                   | 0.64kg (1.41lb)                                                                    | 0.36 kg (0.79 lb)                                                                   | 0.26kg (0.57lb)                                                                                                                 | 0.132kg (0.29lb)                                                                    | 0.2kg (0.45lb)                                                                      | 0.012kg (0.03lb)                                                                    | 1kg (2.25lb)                                                                        | 0.36 kg (0.79 lb)                                                                   | 0.26 kg (0.57 lb)                                                                   |
| Durability                                                                       | Standard                                                                          | Standard                                                                          | Standard                                                                          | Standard                                                                          | Standard                                                                          | Vandal Proof (IK10)                                                                | Vandal Proof (IK10)                                                                 | Vandal Proof (IK10)                                                                                                             | Standard                                                                            | Vandal Resistant (IK09)                                                             | Vandal Resistant (IK08)                                                             | Vandal Proof (IK10)                                                                 | Vandal Proof (IK10)                                                                 | Vandal Proof (IK10)                                                                 |
| Dome Cover Transparency                                                          | Transparent                                                                       | Smoke                                                                             | Smoke                                                                             | Smoke                                                                             | Smoke                                                                             | Transparent                                                                        | Transparent                                                                         | Smoke                                                                                                                           | Smoke                                                                               | Smoke                                                                               | Smoke                                                                               | Smoke                                                                               | Smoke                                                                               | Smoke                                                                               |
| Supported Models                                                                 | TCM-6630                                                                          | TCM-3111                                                                          | TCM-6630                                                                          | D51<br>D52<br>D54<br>D55<br>E51                                                   | E52<br>E53<br>E54<br>E56<br>E57<br>E58<br>E59                                     | TCM-6630                                                                           | I93<br>I94<br>I95<br>I96                                                            | ACM-7411<br>B51<br>B52<br>B53<br>D61<br>D62<br>D64<br>D65<br>D71<br>D72<br>D81<br>D82<br>E61<br>E62<br>E63<br>E64<br>E65<br>E66 | ACM-3701E                                                                           | I91<br>I92<br>KCM-8111                                                              | D91<br>D92<br>E91<br>E92<br>E93<br>E94<br>E95<br>E96<br>E97                         | KCM-8211                                                                            | I93<br>I94<br>I95<br>I96                                                            | B61<br>B64<br>B67<br>B81<br>B84<br>B87<br>B94<br>B95<br>B96                         |



## Power Supply Accessories



| Model                | PPBX-0002                           | PPOE-0000                                            | PPOE-0001                                            | PPOE-0101              | PPOE-0102                            | PPOE-4000                                            |
|----------------------|-------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------|--------------------------------------|------------------------------------------------------|
| Product Type         | Power Adapter                       | PoE Injector                                         | PoE Injector                                         | PoE Injector           | PoE Injector                         | PoE Injector                                         |
| Description          | AC 100-240V to DC 12V power adapter | IEEE802.3af PoE Injector for Class 1, 2 or 3 devices | IEEE802.3af PoE Injector for Class 1, 2 or 3 devices | High PoE injector      | High PoE injector                    | IEEE802.3af PoE Injector for Class 1, 2 or 3 devices |
| Power Connector Type | Universal                           | US/Japan                                             | Universal                                            | Universal              | Universal                            | Australia                                            |
| Supported Models     | All the DC 12V powered devices      | All the PoE class 1, 2 and 3 devices                 | All the PoE class 1, 2 and 3 devices                 | I91<br>I92<br>KCM-8111 | I93<br>I94<br>I95<br>I96<br>KCM-8211 | All the PoE class 1, 2 and 3 devices                 |

## Standalone NVR Accessories



| Model            | PMAX-1200                                                                         | PMAX-1201                                                                         |
|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Product Type     | Standalone NVR Mount                                                              | Standalone NVR Mount                                                              |
| Description      | 19" sliding rail for rack mounting of Rackmount Standalone NVR (INR-410, INR-420) | 26" sliding rail for rack mounting of Rackmount Standalone NVR (INR-410, INR-420) |
| Supported Models | INR-410<br>INR-420                                                                | INR-410<br>INR-420                                                                |

## Video Encoder/Decoder Accessories



| Model            | RMK-2000                                              | RMK-3000                                              |
|------------------|-------------------------------------------------------|-------------------------------------------------------|
| Product Type     | Video Encoder Mount                                   | Video Encoder Mount                                   |
| Description      | 4U Rackmount kit for video encoders/decoders, 8 slots | 4U Rackmount kit for video encoders/decoders, 8 slots |
| Fan              | Yes, 1 per slot                                       | No                                                    |
| Supported Models | TCD-2100<br>ACD-3100                                  | TCD-2100<br>ACD-3100                                  |

## ACTi Corporation

As the technology leader in IP surveillance, ACTi not only provides IP cameras but also develops and offers NVR recording platforms in both Software or Hardware versions. Integrators also have the freedom to use ACTi IP cameras with many VMS solutions on the market, or utilize a unified ACTi solution (cameras + recording platform) as well. ACTi offers a complete range of IP cameras in 1~10 Megapixel resolutions. All cameras include an ISP designed and manufactured by ACTi with many different lens options available. Be assured that the video is always clear and the focus is always precise, even in low light applications. Excellent quality video anytime and anywhere by ACTi!

**Sales Contact**  
[sales@acti.com](mailto:sales@acti.com)

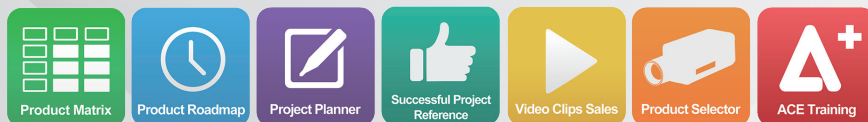
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### ACTi Corporation

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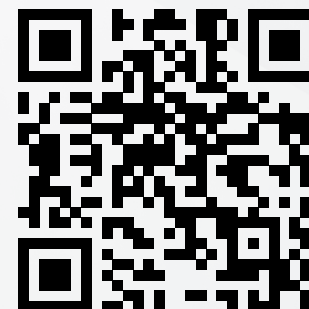
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