

2012-2013
BUYER'S GUIDE
IP Surveillance – Unified Solution



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Hemispheric Camera

Full HD
1080PFull HD
1080P

Hemispheric Camera

KCM Series

Model Name	KCM-3911	KCM-7911
Resolution	4M	4M
Application Environment	Indoor	Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS
Lens	Fisheye lens, 1.05mm/ F2.8; Fixed iris; Fixed Focus	Fisheye lens, 1.05mm/ F2.8; Fixed iris; Fixed Focus
Horizontal Viewing Angle	180°	180°
Viewing Angle Adjustment	N/A	N/A
Lens Mount	Board mount	Board mount
Day / Night	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes
IR LED	No	No
Minimum Illumination	Color: 1.63 lux at F2.8 B/W : 0.06 lux at F2.8	Color: 1.63 lux at F2.8 B/W : 0.06 lux at F2.8
Wide Dynamic Range	Advanced WDR	Advanced WDR
Digital Noise Reduction	2D+3D DNR	2D+3D DNR
Maximum Frame Rate at Maximum Resolution	6 fps at 2032 X 1920	6 fps at 2032 X 1920
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 6 cropped VGA mode	
Audio	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	2/2	2/2
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Mount Type	Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Ceiling
Environmental Casing	N/A	Weatherproof (IP66 rated)
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-30 °C ~ 50 °C (-22 °F ~ 122 °F)
Approvals	CE, FCC	CE, FCC, IP66
Other Value-added Features	Mode: 180° / 360° Panorama, ePTZ, 6 VGA, Motion Detection Preset ; Defogging, local storage	

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** Flush mount is identical to in-ceiling mount

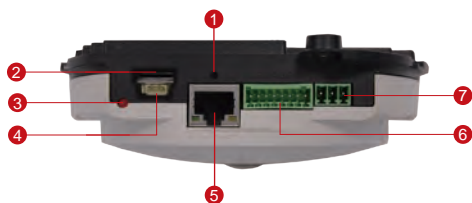
KCM-3911

4M Indoor Hemispheric with D/N,
Advanced WDR, Fisheye lens



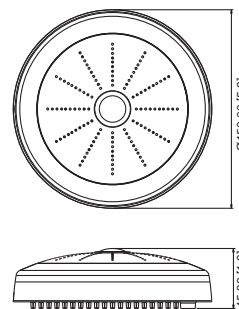
- 1/2.5" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.06 lux at F2.8
- 180°/360° panorama and ePTZ view
- Built-in f1.05 mm / F2.8 Megapixel Fisheye lens
- 6 fps at 2032 x 1920 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Up to 6 cropped regions as independent channels
- Two-way audio
- Video motion detection
- Digital input and digital output
- Advanced WDR
- 2D+3D Digital Noise Reduction
- MircoSDHC card slot for local storage
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- | | |
|------------------------|--------------------------|
| 1 Reset button | 5 Ethernet port |
| 2 MicroSDHC Card Slot | 6 Digital Input & Output |
| 3 Power LED | 7 DC 12V Power Input |
| 4 Audio Input / Output | |

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Power Adapter

PPBX-0002



Universal Power Adapter,
100~240V,
4 different connectors included

Popular Mounting Solutions

Flush	PMAX-1009	
Wall	PMAX-0310	
Pendant	PMAX-0101 PMAX-0103	
Pole	PMAX-0310 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

KCM-3911

• Device

Device Type	Hemispheric Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.5" (5.7 x 4.28 mm)
Day / Night	Yes
Minimum Illumination	Color: 1.63 lux at F2.8 (30 IRE, 2400°K); B/W: 0.06 lux at F2.8 (30 IRE, 2400°K)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1 /15 - 1/2000 sec (auto mode)

• Lens

Focal Length / Aperture	Fisheye Lens, 1.05 mm / F2.8
Iris	Fixed iris
Focus	Fixed Focus
Horizontal Viewing Angle	180°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	6 fps at 2032 X 1920; 12 fps at 1920 X 1080; 12 fps at 1280 X 720; 12 fps at 640 X 480
Mode	180° / 360° Panorama, ePTZ, 6 VGA, Motion Detection Preset
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 6 cropped VGA mode
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Advanced WDR; White balance: automatic, hold and manual; Brightness; Saturation; Contrast; Edge enhancement; Automatic gain control; 2D+3D Digital noise reduction; Flickerless; Defogging
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Cable with 3.5mm Phone Jack
Audio-Out	Cable with 3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3-6 regions, depending on video mode); External device through digital input
Alarm Response	Notify control center; Go to ePTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE 802.3af) / 9.6W DC 12V / 7.68W (adapter not included)
Weight	425 g (0.93 lb)
Dimensions (Ø x H)	150mm x 45.32mm (5.9" x 1.8")
Mount Type	Flush, Wall, Pendant, Pole, Corner
Operating Temperature	-10 °C - 50°C (14°F - 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

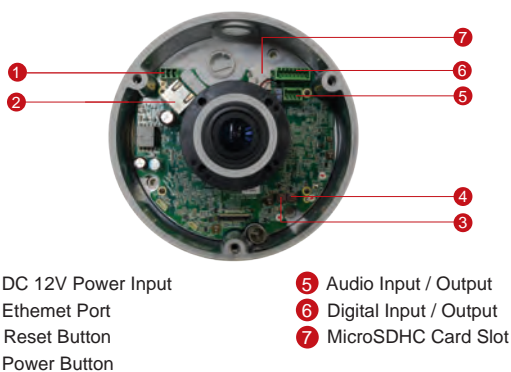
KCM-7911

4M Outdoor Hemispheric with D/N,
Advanced WDR, Fisheye lens

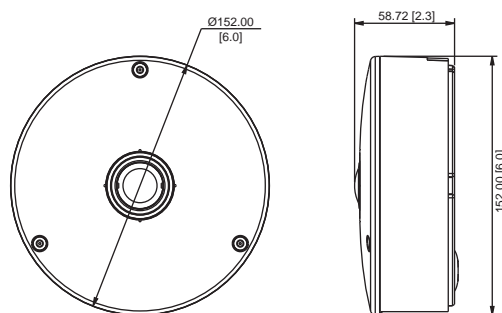


- 1/2.5" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.06 lux at F2.8
- 180°/360° panorama and ePTZ view
- Built-in f1.05 mm / F2.8 Megapixel Fisheye lens
- 6 fps at 2032 x 1920 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Up to 6 cropped regions as independent channels
- Two-way audio
- Video motion detection
- Digital input and digital output
- Advanced WDR
- 2D+3D Digital Noise Reduction
- MircoSDHC card slot for local storage
- Powered by PoE Class 3 / DC 12V
- Weatherproof IP66 rated casing

PHOTO INDICATION



DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Power Adapter

PPBX-0002



Universal Power Adapter,
100~240V,
4 different connectors included

Popular Mounting Solutions

Surface	PMAX-0802	
Wall	PMAX-0310	
Pendant	PMAX-0101 PMAX-0103	
Pole	PMAX-0310 PMAX-0502	

PRODUCT SPECIFICATION

KCM-7911

• Device

Device Type	Outdoor Hemispheric Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.5" (5.7 x 4.28 mm)
Day / Night	Yes
Minimum Illumination	Color: 1.63 lux at F2.8 (30 IRE, 2400°K); B/W: 0.06 lux at F2.8 (30 IRE, 2400°K)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1 /15 - 1/2000 sec (auto mode)

• Lens

Focal Length / Aperture	Fisheye Lens, 1.05 mm / F2.8
Iris	Fixed iris
Focus	Fixed Focus
Horizontal Viewing Angle	180°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	6 fps at 2032 x 1920; 12 fps at 1920 x 1080 (Full HD 1080p); 12 fps at 1280 x 720 (HD 720p); 12 fps at 640 x 480 (VGA)
Mode	180° / 360° Panorama, ePTZ, 6 VGA, Motion Detection Preset
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 6 cropped VGA mode
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Advanced WDR, White balance: automatic, hold and manual; Brightness; Saturation; Contrast; Edge enhancement; Automatic gain control; 2D+3D Digital noise reduction; Flickerless; Defogging
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Terminal block
Audio-Out	Terminal block

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3-6 regions, depending on video mode); External device through digital input
Alarm Response	Notify control center; Go to ePTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE 802.3af) / 9.6W DC 12V / 7.68W (adapter not included)
Weight	800 g (1.76 lb)
Dimensions (Ø x H)	152mm x 58.72mm (6" x 2.3")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Ceiling
Operating Temperature	-30 °C - 50°C (-22°F - 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

Dome Cameras



HD



HD



HD

Full HD
1080PFull HD
1080P

Fixed Indoor Dome Camera

Model Name	Fixed Indoor Dome Camera				
	D Series	E Series			
	D51	E51	E52	E53	E54
Resolution	1M	1M	1M	3M	5M
Application Environment	Indoor	Indoor	Indoor	Indoor	Indoor
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
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Lens	Fixed focal lens, f3.6mm / F2.0, Fixed iris	Fixed focal lens, f2.8mm / F2.0, Fixed iris	Fixed focal lens, f3.6mm / F1.8, Fixed iris	Fixed focal lens, f3.6mm / F1.8, Fixed iris	Fixed focal lens, f3.6mm / F1.8, Fixed iris
Horizontal Viewing Angle	61°	77.5°	60.2°	72°	72°
Viewing Angle Adjustment	Pan: 0°-330°, Tilt: 0°-180°	Pan: 0°-330°, Tilt: 0°-180°	Pan: 0°-330°, Tilt: 20°-90°	Pan: 0°-330°, Tilt: 20°-90°	Pan: 0°-330°, Tilt: 20°-90°
Lens Mount	Board mount	Board mount	Board mount	Board mount	Board mount
Day / Night	No	No	Yes	Yes	Yes
Mechanical IR Cut Filter	No	No	Yes	Yes	Yes
IR LED	No	No	Yes	Yes	Yes
Minimum Illumination	Color: 0.1 lux at F2.0	Color: 0.1 lux at F2.0	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)
Wide Dynamic Range	No	Basic WDR	Basic WDR	Basic WDR	Basic WDR
Digital Noise Reduction	DNR	DNR	DNR	DNR	DNR
Maximum Frame Rate at Maximum Resolution	30 fps at 1280 x 720	30 fps at 1280 x 720	30 fps at 1280 x 720	15 fps at 2048 x 1536	15 fps at 2592 x 1944
Multi-Streaming	Simultaneous dual streams based on two configurations				
Audio	No	No	No	No	No
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	No	No	No	No	No
Power Source	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**				
Environmental Casing	No	No	No	No	No
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)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** Flush mount is identical to in-ceiling mount

Dome Cameras



HD



HD



HD

Full HD
1080P

	Fixed Indoor Dome Camera		Vari-Focal Indoor Dome Camera	Indoor Dome Camera with Zoom Lens
	ACM Series	TCM Series	TCM Series	KCM Series
Model Name	ACM-3701E	TCM-3111	TCM-3511	KCM-3311
Resolution	1.3M	1.3M	1.3M	4M
Application Environment	Indoor	Indoor	Indoor	Indoor
Compression	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Zoom Ratio	No	No	No	3.6x optical
Lens	Fixed focal, f3.6 mm/ F1.8, Fixed iris	Fixed focal lens, f4.2mm/ F1.8, Fixed iris	Vari-focal lens, f3.3- 12 mm/ F1.6, Fixed iris	Zoom, f3.3 - 12 mm/ F1.4 ~ 2.9; P-Iris
Horizontal Viewing Angle	72.3°	68.15°	78.1° - 23.1°	77.22° - 22.62°
Viewing Angle Adjustment	Pan: ± 20°, Tilt: 0° - 90°, Rotate: ± 15°	Pan: 0°-170°, Tilt: 0°-180°	Pan: 0° - 330°, Tilt: 30° - 90°	Pan: 0° - 360°, Tilt: 0° - 180°, Rotate: 0° - 360°
Lens Mount	Board mount	Board mount (interchangeable lens)	Board mount	Board Mount
Day / Night	No	Yes (Electronic)	Yes	Yes
Mechanical IR Cut Filter	No	No	Yes	Yes
IR LED	No	No	Yes	No
Minimum Illumination	Color: 0.5 lux at F1.0, B/W: 0.5 lux at F1.0	Color: 0.5 lux at F1.0, B/W: 0.5 lux at F1.0	Color: 0.5 lux at F1.0, B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.4, B/W : 0.05 lux at F1.4
Wide Dynamic Range	No	No	Basic WDR	Advanced WDR
Digital Noise Reduction	No	No	No	2D+3D DNR
Maximum Frame Rate at Maximum Resolution	8 fps at 1280 x 1024	18 fps at 1280 x 1024	18 fps at 1280 x 1024	8 fps at 2032 X 1920
Multi-Streaming	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Audio	No	No	2-way	No
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	No	No	1/1	No
Power Source	Rugged RJ-45 PoE Class 3	PoE Class 2	DC 12V; PoE Class 3	PoE Class 3
Mount Type	Surface	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**
Operating Temperature	-10 °C ~ 40 °C (14 °F ~ 104 °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
Lens Option		PLEN-0121		
Other Value-added Features				Defogging

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (except ACM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** Flush mount is identical to in-ceiling mount

Dome Cameras



	Fixed Outdoor Dome		Vari-Focal Outdoor Dome	
	KCM Series	ACM Series	TCM Series	
Model Name	KCM-7111	ACM-7411	TCM-7411	
Resolution	4M	1.3M	1.3M	
Application Environment	Outdoor	Outdoor	Outdoor	
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	
Zoom Ratio	No	No	No	
Lens	Fixed focal, f2.8 mm / F2.0, Fixed iris	Vari-focal, f3.3 - 12 mm/ F1.6, Fixed iris	Vari-focal, f3.3 - 12 mm/ F1.6, Fixed iris	
Horizontal Viewing Angle	82.59°	83° - 23.8°	78.4° - 23.1°	
Viewing Angle Adjustment	Pan: 0°-360°, Tilt: 0°-180°, Rotate: 0°-360°	Pan: 0°-360°, Tilt: 0°-180°, Rotate: 0°-360°**	Pan: 0°-360°, Tilt: 0°-180°, Rotate: 0°-360°**	
Lens Mount	CS Mount	Board Mount	Board Mount	
Day / Night	Yes	Yes	Yes	
Mechanical IR Cut Filter	Yes	Yes	Yes	
IR LED	No	No	No	
Minimum Illumination	Color: 0.1 Lux at F2.0, B/W : 0.05 Lux at F2.0	Color: 0.5 lux at F1.0, B/W: 0.05 lux at F1.0	Color: 0.5 lux at F1.0, B/W: 0.05 lux at F1.0	
Wide Dynamic Range	No	No	Basic WDR	
Digital Noise Reduction	No	No	No	
Maximum Frame Rate at Maximum Resolution	8 fps at 2032 X 1920	8 fps at 1280 x 1024	18 fps at 1280 x 1024	
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	
Audio	2-way	2-way	2-way	
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	
Digital Input/Output	2/2	1/1	1/1	
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	
Environmental Casing	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof	
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F) with DC 12V; -5°C ~ 50°C (23°F ~ 122°F) with PoE	-30°C ~ 50°C (-22°F ~ 122°F) with DC 12V; -5°C ~ 50°C (23°F ~ 122°F) with PoE	
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66	
Other Value-added Features	Local storage			

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (except ACM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** Flush mount is identical to in-ceiling mount

Dome Cameras



	Vari-Focal Outdoor Dome	Outdoor Dome with Zoom Lens
	TCM Series	KCM Series
Model Name	TCM-7811	KCM-7311
Resolution	1.25M	4M
Application Environment	Outdoor	Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CCD	Progressive Scan CMOS
Zoom Ratio	No	3.6x optical
Lens	Vari-focal, f3 - 9 mm/ F1.2, DC iris	Zoom, f3.3 - 12 mm / F1.4 ~ 2.9, P-Iris
Horizontal Viewing Angle	85.8° - 30.3°	77.22° - 22.62°
Viewing Angle Adjustment	Pan: 0°-360°, Tilt: 10°-90°, Rotate: 0°-360°	Pan: 0°-360°, Tilt: 0°-180°, Rotate: 0°-360°
Lens Mount	Board Mount	Board Mount
Day / Night	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes
IR LED	Yes	No
Minimum Illumination	Color: 0.15 lux at F1.2, B/W: 0 lux (IR LED on)	Color: 0.1 Lux at F1.4, B/W : 0.05 Lux at F1.4
Wide Dynamic Range	No	Advanced WDR
Digital Noise Reduction	No	2D+3D DNR
Maximum Frame Rate at Maximum Resolution	15 fps at 1280 x 960	8 fps at 2032 X 1920
Multi-Streaming	Simultaneous dual streams based on two configurations	Simultaneous dual steams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Audio	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	1/1	2/2
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**
Environmental Casing	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F) with DC 12V; -5°C ~ 50°C (23°F ~ 122°F) with PoE	-30 °C ~ 50 °C (-22 °F ~ 122 °F)
Approvals	CE, FCC, IP66, IK10	CE, FCC, IP66
Other Value-added Features	Local storage	Defogging; Local storage

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (except ACM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** Flush mount is identical to in-ceiling mount

D51

1MP Indoor Dome with Fixed lens



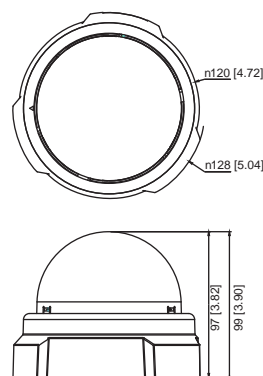
- Progressive Scan CMOS
- Minimum illumination 0.1 Lux at F2.0
- Built-in f3.6mm / F2.0 Megapixel fixed lens
- 30 fps at 1280 x 720 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Powered by PoE Class 2
- Video motion detection

PHOTO INDICATION




- 1 Power LED
- 2 Ethernet Port
- 3 Reset Button



DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-0104		3-inch, smoke, non-vandal proof

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308 	
Pendant	PMAX-0101 + PMAX-0103 	
Corner	PMAX-0101 + PMAX-0303 + PMAX-0402 	
Pole	PMAX-0101 + PMAX-0303 + PMAX-0502 	
Flush	PMAX-1006 	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

D51

• Device

Device Type	Fixed Indoor Dome Camera
Image Sensor	Progressive Scan CMOS
Day / Night	No
Minimum Illumination	Color: 0.1 lux at F2.0 (30 IRE, 2400°K)
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
IR LED	No
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f3.6 mm / F2.0
Iris	Fixed iris
Focus	Fixed focus
Lens Mount	Board Mount
Horizontal Viewing Angle	61°
Viewing Angle Adjustment	Pan: 0° - 330°; Tilt: 0° - 180°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	White balance: automatic, hold, and manual; Brightness; Contrast; Auto gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control Center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 3.79 W
Weight	292 g (0.64 lb)
Dimensions (Ø x H)	128 mm x 99 mm (5.12" x 3.90")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

E51

1MP Indoor Dome with Basic WDR, Fixed lens



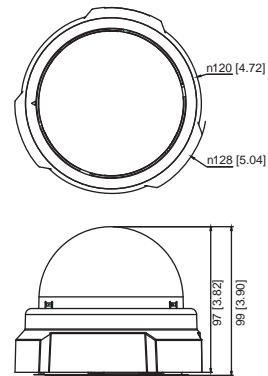
- Progressive Scan CMOS
- Minimum illumination 0.1 Lux at F2.0
- Built-in f2.8mm / F2.0 Megapixel fixed lens
- 30 fps at 1280 x 720 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Powered by PoE Class 2
- Video motion detection
- Basic WDR

PHOTO INDICATION



- 1 Power LED
- 2 Ethernet Port
- 3 Reset Button

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-0104		3-inch, smoke, non-vandal proof

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308	
Pendant	PMAX-0101 + PMAX-0103	
Corner	PMAX-0101 + PMAX-0303 + PMAX-0402	
Pole	PMAX-0101 + PMAX-0303 + PMAX-0502	
Flush	PMAX-1006	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

E51

• Device

Device Type	Fixed Indoor Dome Camera
Image Sensor	Progressive Scan CMOS
Day / Night	No
Minimum Illumination	Color: 0.1 lux at F2.0 (30 IRE, 2400°K)
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
IR LED	No
Electronic Shutter	1/5 - 1/2000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f2.8 mm / F2.0
Iris	Fixed iris
Focus	Fixed focus
Lens Mount	Board Mount
Horizontal Viewing Angle	77.5°
Viewing Angle Adjustment	Pan: 0° - 330°; Tilt: 0° - 180°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA);
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Auto gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control Center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 3.79 W
Weight	292 g (0.64 lb)
Dimensions (Ø x H)	128 mm x 99 mm (5.12" x 3.90")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

E52

1MP Indoor Dome with D/N, IR, Basic WDR, Fixed lens



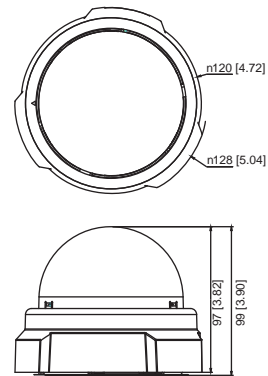
- Progressive Scan CMOS
- Minimum illumination 0 lux with IR LED on
- Built-in f3.6mm / F1.8 Megapixel fixed lens
- 30 fps at 1280 x 720 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Powered by PoE Class 2
- Video motion detection
- Basic WDR

PHOTO INDICATION



- 1 Power LED
- 2 Ethernet Port
- 3 Reset Button

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-0105		3-inch, smoke, non-vandal proof

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308	
Pendant	PMAX-0101 + PMAX-0103	
Corner	PMAX-0101 + PMAX-0303 + PMAX-0402	
Pole	PMAX-0101 + PMAX-0303 + PMAX-0502	
Flush	PMAX-1006	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

E52

• Device

Device Type	Fixed Indoor Dome Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700~1100nm
IR LED	IR LED x 16 (850nm)
IR Working Distance	15 m (0 lux, 30 IRE, Max exposure gain)
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f3.6 mm / F1.8
Iris	Fixed iris
Focus	Fixed focus
Lens Mount	Board Mount
Horizontal Viewing Angle	60.2°
Viewing Angle Adjustment	Pan: 0° - 330°; Tilt: 20° - 90°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA);
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Auto gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control Center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 4.26 W (IR on)
Weight	292 g (0.64 lb)
Dimensions (Ø x H)	128 mm x 99 mm (5.12" x 3.90")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

E53

3MP Indoor Dome with D/N, IR, Basic WDR, Fixed lens



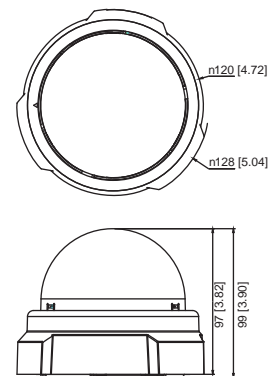
- Progressive Scan CMOS
- Minimum illumination 0 lux with IR LED on
- Built-in f3.6mm / F1.8 Megapixel fixed lens
- 15 fps at 2048x1536 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Powered by PoE Class 2
- Video motion detection
- Basic WDR

PHOTO INDICATION



- 1 Power LED
- 2 Ethernet Port
- 3 Reset Button

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover

PDCX-0105



3-inch, smoke, non-vandal proof

Popular Mounting Solutions

Surface	Accessories not required
Wall	PMAX-0308 
Pendant	PMAX-0101 PMAX-0103 
Corner	PMAX-0101 PMAX-0303 PMAX-0402 
Pole	PMAX-0101 PMAX-0303 PMAX-0502 
Flush	PMAX-1006 

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

E53

• Device

Device Type	Fixed Indoor Dome Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700~1100nm
IR LED	IR LED x 16 (850nm)
IR Working Distance	15 m (0 lux, 30 IRE, Max exposure gain)
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f3.6 mm / F1.8
Iris	Fixed iris
Focus	Fixed focus
Lens Mount	Board Mount
Horizontal Viewing Angle	72°
Viewing Angle Adjustment	Pan: 0° - 330°; Tilt: 20° - 90°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	15 fps at 2048x1536; 30 fps at 1920 x 1080 (Full HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Auto gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control Center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 6.02 W (IR on)
Weight	292 g (0.64 lb)
Dimensions (Ø x H)	128 mm x 99 mm (5.12" x 3.90")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

E54

5MP Indoor Dome with D/N, IR, Basic WDR, Fixed lens



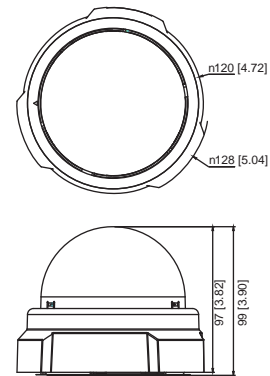
- Progressive Scan CMOS
- Minimum illumination 0 lux with IR LED on
- Built-in f3.6mm / F1.8 Megapixel fixed lens
- 15 fps at 2592x1944 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Powered by PoE Class 2
- Video motion detection
- Basic WDR

PHOTO INDICATION



- 1 Power LED
- 2 Ethernet Port
- 3 Reset Button

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-0105		3-inch, smoke, non-vandal proof

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308	
Pendant	PMAX-0101 +	
Corner	PMAX-0101 + +	
Pole	PMAX-0101 + +	
Flush	PMAX-1006	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

E54

• Device

Device Type	Fixed Indoor Dome Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700~1100nm
IR LED	IR LED x 16 (850nm)
IR Working Distance	15 m (0 lux, 30 IRE, Max exposure gain)
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f3.6 mm / F1.8
Iris	Fixed iris
Focus	Fixed focus
Lens Mount	Board Mount
Horizontal Viewing Angle	72°
Viewing Angle Adjustment	Pan: 0° - 330°; Tilt: 20° - 90°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	15fps at 2592x1944; 15 fps at 2048x1536; 30 fps at 1920 x 1080 (Full HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Auto gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control Center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 6.49 W (IR on)
Weight	292 g (0.64 lb)
Dimensions (Ø x H)	128 mm x 99 mm (5.12" x 3.90")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

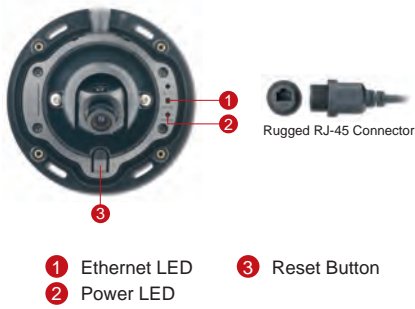
ACM-3701E

Megapixel IP Vandal Proof
PoE Indoor Mini Dome

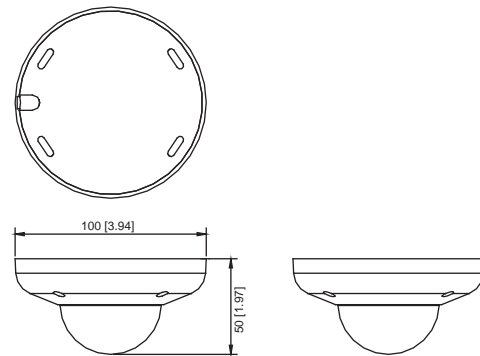


- Progressive Scan CMOS
- Minimum illumination 0.5 lux at F1.0
- Built-in f3.6 mm / F1.8 Megapixel fixed lens
- 8 fps at 1280 x 1024 resolution
- Selectable MPEG-4 SP, MJPEG compressions
- Video motion detection
- Vandal proof casing
- Powered by PoE Class 3

PHOTO INDICATION



DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover

PDCX-1102



2-inch, smoke, vandal proof

PRODUCT SPECIFICATION

ACM-3701E

• Device

Device Type	Fixed Dome Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes (electronic)
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400°K); B/W: 0.5 lux at F1.0 (30 IRE, 2400°K)
Color to B/W switch	DSP based switch, configurable
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
IR LED	No
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens

Focal Length	Fixed focal, f3.6 mm / F1.8
Iris	Fixed iris
Focus	Fixed focus
Mount Type	Board mount
Horizontal Viewing Angle	72.3°
Viewing Angle Adjustment	Pan: ± 20°; Tilt: 0° - 90°; Rotate: ± 15°

• Video

Compression	MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	8 fps at 1280 x 1024 (SXGA); 10 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Multiple streams based on single configuration
Bit Rate	28 Kbps - 3 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	1 configurable region
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 2.4 W
Weight	220 g (0.48 lb)
Dimensions (Ø x H)	100 mm x 50 mm (3.94" x 1.97")
Environmental Casing	Transparent vandal proof dome cover, up to 722.66 kgF (328.09 lbF)
Mount Type	Surface
Operating Temperature	-10 °C ~ 40 °C (14 °F ~ 104 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

TCM-3111

H.264 Megapixel IP PoE
Fixed Dome



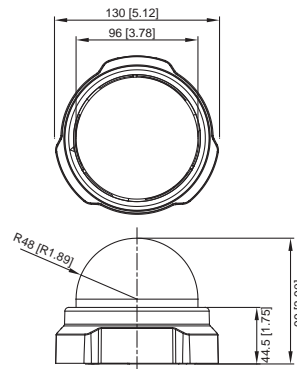
- 1/3" Progressive Scan CMOS
- Minimum illumination 0.5 Lux at F1.0
- Built-in f4.2mm / F1.8 Megapixel fixed lens
(It is possible to replace the bundled lens with the optional lens)
- 18 fps at 1280 x 1024 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Powered by PoE Class 2

PHOTO INDICATION



- 1 Power LED
- 2 Ethernet Port
- 3 Reset Button


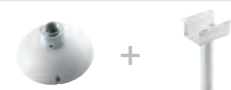



DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Lens		
PLEN-0121		IR Compatible, Fixed Iris, F2.0, 2.8 mm, 92.5°
Dome Cover		
PDCX-0101		3-inch, smoke, non-vandal proof

Popular Mounting Solutions	
Surface	Accessories not required
Wall	PMAX-0308 
Pendant	PMAX-0101 + PMAX-0103 
Corner	PMAX-0101 + PMAX-0303 + PMAX-0402 
Pole	PMAX-0101 + PMAX-0303 + PMAX-0502 
Flush	PMAX-1006 

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

TCM-3111

• Device

Device Type	Fixed Dome Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3" (4.8 x 3.6 mm)
Day / Night	Yes (electronic)
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400°K); B/W: 0.5 lux at F1.0 (30 IRE, 2400°K)
Color to B/W switch	DSP based switch, configurable
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
IR LED	No
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens*

Focal Length / Aperture	Fixed focal, f4.2 mm / F1.8
Iris	Fixed iris
Focus	Fixed focus
Horizontal Viewing Angle	68.15°
Viewing Angle Adjustment	Pan: 0° - 170°; Tilt: 0° - 180°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	18 fps at 1280 x 1024 (SXGA); 26 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control Center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 4.368 W
Weight	270 g (0.6 lb)
Dimensions (Ø x H)	130 mm x 99 mm (5.12" x 3.90")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

* It is possible to replace the bundled lens with the optional lens.

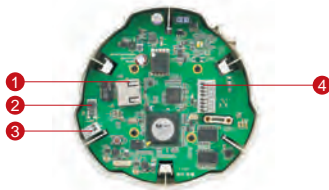
TCM-3511

H.264 Megapixel IP IR D/N PoE
Fixed Dome with Vari-focal Lens



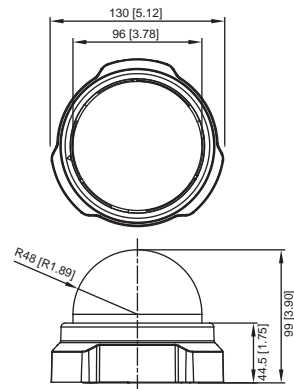
- 1/3" Progressive Scan CMOS
- Minimum illumination 0 lux with IR LED on
- Built-in f3.3~12mm / F1.6 Megapixel vari-focal lens
- 18 fps at 1280 x 1024 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Digital input and digital output
- Basic WDR
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- 1 Ethernet Port
- 2 Reset Button
- 3 DC 12V Power Input
- 4 Audio Input / Output & Digital Input / Output

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-0100		3-inch, smoke, non-vandal proof
Power Adapter		
PPBX-0002		Universal Power Adapter, 100~240V, 4 different connectors included

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAx-0308	
Pendant	PMAx-0101 + PMAx-0103	
Corner	PMAx-0101 + PMAx-0303 + PMAx-0402	
Pole	PMAx-0101 + PMAx-0303 + PMAx-0502	
Flush	PMAx-1006	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

TCM-3511

• Device

Device Type	Fixed Dome Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3" (4.8 x 3.6 mm)
Day / Night	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	CDS sensor based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 24 (850 nm)
IR Working Distance	30 m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens

Focal Length / Aperture	Vari-focal, f3.3 - 12 mm / F1.6
Iris	Fixed iris
Focus	Manual focus
Horizontal Viewing Angle	78.1° - 23.1°
Viewing Angle Adjustment	Pan: 0° - 330°; Tilt: 30° - 90°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	18 fps at 1280 x 1024 (SXGA); 26 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	Basic WDR; White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Terminal block
Audio-Out	Terminal block

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	1, terminal block
Digital Output	1, terminal block

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 9.12 W (IR on) DC 12 V / 6.72 W (IR on) (adapter not included)
Weight	380 g (0.84 lb)
Dimensions (Ø x H)	130 mm x 99 mm (5.12" x 3.90")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

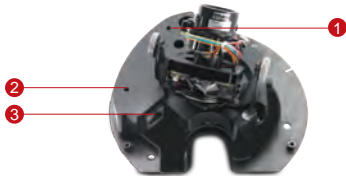
KCM-3311

4M Indoor Dome with D/N,
Advanced WDR, 3.6x Zoom lens



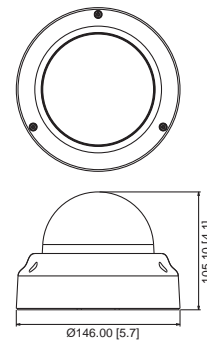
- 1/3.2" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 lux at F1.4
- 3.6 x optical zoom
- Built-in f3.3-12 mm / F1.4-2.9 Megapixel P-Iris zoom lens
- 8 fps at 2032 x 1920 resolution (1422 TV lines)
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Up to 4 cropped regions as independent channels
- Advanced WDR
- 2D+3D Digital noise reduction
- Video Motion Detection
- Powered by PoE Class 3

PHOTO INDICATION



- ① Reset Button
- ② Power Button
- ③ Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-1101		4-inch, smoke, vandal proof

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308 	
Pendant	PMAX-0101 + PMAX-0103 	
Corner	PMAX-0101 + PMAX-0303 + PMAX-0402 	
Pole	PMAX-0101 + PMAX-0303 + PMAX-0502 	
Flush	PMAX-1008 	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

KCM-3311

• Device

Device Type	Fixed Dome Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3.2" (4.5 x 3.4 mm)
Horizontal Resolution	1422 TVL
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.4 (30 IRE, 2400°K); B/W: 0.05 lux at F1.4 (30 IRE, 2400°K)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/13 - 1/2000 sec (50Hz); 1/15 - 1/2000 sec (60Hz) (manual mode) 1 - 1/2000 sec (60Hz) (auto mode)

• Lens

Focal Length / Aperture	Zoom, f3.3 - 12 mm / F1.4 - 2.9
Zoom Ratio	3.6x optical
Iris	P-Iris
Focus	Auto Focus
Mount Type	Board Mount
Horizontal Viewing Angle	77.22° - 22.62°
Viewing Angle Adjustment	Pan: 0° - 360°; Tilt: 0° - 180°; Rotate: 0° - 360°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution (H.264, MJPEG)	8 fps at 2032 X 1920; 15 fps at 1920 X 1080 (HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Maximum Frame Rate vs. Resolution (MPEG-4 SP)	5 fps at 2032 X 1920; 11 fps at 1920 X 1080 (HD 1080p); 25 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
4 Cropped VGA Mode (All Compressions)	15 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Advanced WDR; White balance: automatic, hold and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; 2D+3D Digital noise reduction; Flickerless; Defogging
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection 3 regions in single view mode, 1 region each in 4 cropped VGA mode;
Alarm Response	Notify control center; Go to Zoom preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 11.76W
Weight	615 g (1.36 lb)
Dimensions (Ø x H)	146.00 mm x 105.10 mm (5.7" x 4.1")
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-10°C - 50°C (14°F - 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

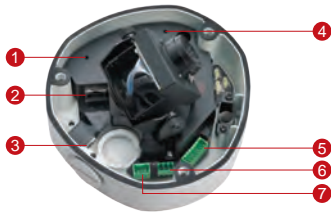
KCM-7111

4M Outdoor Dome with D/N, Fixed lens



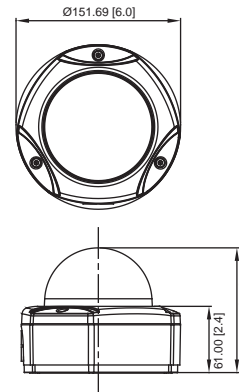
- 1/3.2" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 lux at F2.0
- Bundled f2.8 mm / F2.0 Megapixel fixed lens
- 8 fps at 2032 x 1920 resolution (1561 TV lines)
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Up to 4 cropped regions as independent channels
- Two-way audio
- Digital input and digital output
- MicroSDHC card slot for local storage
- Video Motion Detection
- Vandal proof and weatherproof IP66 rated casing
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- 1 Power Button
- 2 Ethernet Port
- 3 MicroSDHC Card Slot
- 4 Reset Button
- 5 Digital Input / Output
- 6 DC 12V Power Input
- 7 Audio Input / Output

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-1101		4-inch, smoke, vandal proof
Power Adapter		
PPBX-0002		Universal Power Adapter, 100~240V, 4 different connectors included

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308	
Pendant	PMAX-0101 PMAX-0103	
Corner	PMAX-0101 PMAX-0303 PMAX-0402	
Pole	PMAX-0101 PMAX-0303 PMAX-0502	
Flush	PMAX-1003	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

KCM-7111

• Device

Device Type	Fixed Dome Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3.2" (4.5 x 3.4 mm)
Horizontal Resolution	1561 TVL
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F2.0 (30 IRE, 2400°K); B/W: 0.05 lux at F2.0 (30 IRE, 2400°K)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/25 - 1/2000 sec (50Hz); 1/15 - 1/2000 sec (60Hz) (manual mode) 1 - 1/2000 sec (auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f2.8 mm / F2.0
Iris	Fixed iris
Focus	Manual Focus
Mount Type	CS Mount
Horizontal Viewing Angle	82.59°
Viewing Angle Adjustment	Pan: 0° - 360°; Tilt: 0° - 180°; Rotate: 0° - 360°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution (H.264, MJPEG)	8 fps at 2032 X 1920; 15 fps at 1920 X 1080 (HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Maximum Frame Rate vs. Resolution (MPEG-4 SP)	5 fps at 2032 X 1920; 11 fps at 1920 X 1080 (HD 1080p); 25 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
4 Cropped VGA Mode (All Compressions)	15 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	White balance: automatic, hold and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Masks	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Terminal block
Audio-Out	Terminal block

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection 3 regions in single view mode, 1 region each in 4 cropped VGA mode; External device through digital input
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 10.08W DC 12V / 8.28W (adapter not included)
Weight	1415 g (3.12 lb)
Dimensions (Ø x H)	151.69 mm x 114.9 mm (5.97" x 4.52")
Environmental Casing	Weatherproof (IP66 rated); Transparent vandal proof dome cover, up to 659.23 kgF (1453.35 lbf)
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

ACM-7411

Megapixel IP D/N Outdoor
Vandal Proof PoE Rugged Dome



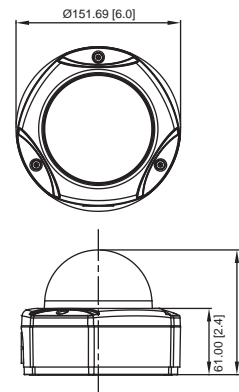
- 1/3" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 lux at F1.0
- Built-in f3.3~12 mm / F1.6 Megapixel vari-focal lens
- 8 fps at 1280 x 1024 resolution
- Selectable MPEG-4 SP, MJPEG compressions
- Two-way audio
- Video motion detection
- Digital input and digital output
- Vandal proof and weatherproof IP66 rated casing
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- 1 Ethernet Port
- 2 DC 12V Power Input
- 3 Reset Button
- 4 Audio Input / Output & Digital Input / Output

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-1101		4-inch, smoke, vandal proof
Power Adapter		
PPBX-0002		Universal Power Adapter, 100~240V, 4 different connectors included

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308	
Pendant	PMAX-0101 + PMAX-0103	
Corner	PMAX-0101 + PMAX-0303 + PMAX-0402	
Pole	PMAX-0101 + PMAX-0303 + PMAX-0502	
Flush	PMAX-1003	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

ACM-7411

• Device

Device Type	Fixed Dome Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3" (4.8 x 3.6 mm)
Day / Night	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400°K); B/W: 0.05 lux at F1.0 (30 IRE, 2400°K)
Color to B/W switch	CDS sensor based switch
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens

Focal Length / Aperture	Vari-focal, f3.3 - 12 mm / F1.6
Iris	Fixed iris
Focus	Manual focus
Horizontal Viewing Angle	83° - 23.8°
Viewing Angle Adjustment	Pan: 0° - 360°; Tilt: 0° - 180°; Rotate: 0° - 360°

• Video

Compression	MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	8 fps at 1280 x 1024 (SXGA); 10 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Multiple streams based on single configuration
Bit Rate	28 Kbps - 3 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	1 configurable region
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding
Audio-In	Terminal block
Audio-Out	Terminal block

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	1, terminal block
Digital Output	1, terminal block

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 4.8 W (heater and fan off) PoE Class 3 (IEEE802.3af) / 5.76 W (fan on) DC 12V / 2.64 W (heater and fan off) DC 12V / 11.52 W (heater and fan on) (adapter not included)
Weight	1040 g (2.29 lb)
Dimensions (Ø x H)	151.69 mm x 114.9 mm (6.0" x 4.5")
Environmental Casing	Weatherproof (IP66 rated); Transparent vandal proof dome cover, up to 659.23 kgF (1453.35 lbf)
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-30 °C ~ 50 °C (-22 °F ~ 122 °F) for DC 12V -5 °C ~ 50 °C (23 °F ~ 122 °F) for PoE
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

TCM-7411

H.264 Megapixel IP D/N Outdoor Vandal Proof PoE Rugged Dome



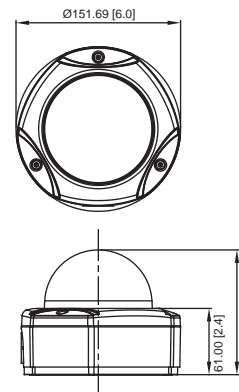
- 1/3" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 Lux at F1.0
- Built-in f3.3 - 12 mm / F1.6 Megapixel vari-focal lens
- 18 fps at 1280 x 1024 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Digital input and digital output
- Basic WDR
- Vandal proof and weatherproof IP66 rated casing
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- 1 Ethernet Port
- 2 DC 12V Power Input
- 3 Reset Button
- 4 Audio Input / Output & Digital Input / Output

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-1101		4-inch, smoke, vandal proof
Power Adapter		
PPBX-0002		Universal Power Adapter, 100~240V, 4 different connectors included

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308	
Pendant	PMAX-0101 PMAX-0103	
Corner	PMAX-0101 PMAX-0303 PMAX-0402	
Pole	PMAX-0101 PMAX-0303 PMAX-0502	
Flush	PMAX-1003	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

TCM-7411

• Device

Device Type	Fixed Dome Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3" (4.8 x 3.6 mm)
Day / Night	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400°K); B/W: 0.05 lux at F1.0 (30 IRE, 2400°K)
Color to B/W switch	CDS sensor based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens

Focal Length / Aperture	Vari-focal, f3.3 - 12 mm / F1.6
Iris	Fixed iris
Focus	Manual focus
Horizontal Viewing Angle	78.4° - 23.1°
Viewing Angle Adjustment	Pan: 0° - 360°; Tilt: 0° - 180°; Rotate: 0° - 360°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	18 fps at 1280 x 1024 (SXGA); 26 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	Basic WDR; White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Terminal block
Audio-Out	Terminal block

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	1, terminal block
Digital Output	1, terminal block

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 6.24 W (heater and fan off) PoE Class 3 (IEEE802.3af) / 7.68W (fan on) DC 12V / 4.8 W (heater and fan off) DC 12V / 13.68 W (heater and fan on) (adapter not included)
Weight	1040 g (2.29 lb)
Dimensions (Ø x H)	151.69 mm x 114.9 mm (6.0" x 4.5")
Environmental Casing	Weatherproof (IP66 rated); Transparent vandal proof dome cover, up to 659.23 kgF (1453.35 lbf)
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-30 °C ~ 50 °C (-22 °F ~ 122 °F) for DC 12V -5 °C ~ 50 °C (23 °F ~ 122 °F) for PoE
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

TCM-7811

H.264 Megapixel IP IR D/N CCD Vandal Proof Outdoor PoE Fixed Dome



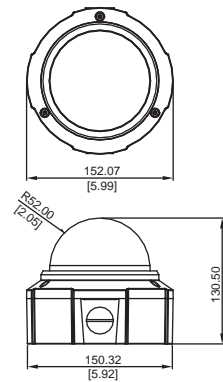
- 1/3" Progressive Scan CCD
- Day and night function with mechanical IR cut filter
- Minimum illumination 0 lux with IR LED on
- Built-in f3-9 mm / F1.2 Megapixel DC iris vari-focal lens
- 15 fps at 1280 x 960 resolution
- Selectable H.264, MPEG-SP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Digital input and digital output
- MicroSDHC card slot for local storage
- Vandal proof IK10 and weatherproof IP66 rated casing
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- 1 Ethernet Port
- 2 Reset Button
- 3 Power Button
- 4 Audio & Digital Input / Output
- 5 DC 12V Power Input
- 6 MicroSDHC Card Slot

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-1104		4-inch, smoke, vandal proof

Power Adapter		
PPBX-0002		Universal Power Adapter, 100~240V, 4 different connectors included

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAX-0308	
Corner	PMAX-0101 + PMAX-0303 + PMAX-0402	
Flush	PMAX-1004	
Pendant	PMAX-0101 + PMAX-0103	
Pole	PMAX-0101 + PMAX-0303 + PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

TCM-7811

• Device

Device Type	Fixed Dome Camera
Image Sensor	Progressive Scan CCD
Sensor Size	1/3" (4.8 x 3.6 mm)
Horizontal Resolution	900 TVL
Day / Night	Yes
Minimum Illumination	Color: 0.15 lux at F1.2 (30 IRE, Max. AGC); B/W: 0 lux (IR LED on)
Color to B/W switch	CDS sensor based switch, configurable; DSP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 31 (850 nm)
IR Working Distance	40 m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/60 - 1/10,000 sec (60Hz); 1/50 - 1/10,000 sec (50Hz) (manual mode) 2 - 1/100,000 sec (auto mode)

• Lens

Focal Length / Aperture	Vari-focal, f3 - 9 mm / F1.2
Iris	DC iris
Focus	Manual focus
Horizontal Viewing Angle	85.8° - 30.3°
Viewing Angle Adjustment	Pan: 0° - 360°; Tilt: 10° - 90°; Rotate: 0° - 360°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	15 fps at 1280 x 960; 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 50 dB
Image Enhancement	Backlight compensation; White balance: automatic, hold, predefined and manual; Brightness; Automatic gain control; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Terminal block
Audio-Out	Terminal block

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	1, terminal block
Digital Output	1, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 11.52 W (heater and fan off) PoE Class 3 (IEEE802.3af) / 12.96 W (fan on) DC 12V / 8.76 W (heater and fan off) DC 12V / 10.8 W (heater and fan on) (adapter not included)
Weight	1420 g (3.13 lb)
Dimensions (Ø x H)	152.00 mm x 131.50 mm (5.98" x 5.18")
Environmental Casing	Weatherproof (IP66 rated); Transparent vandal proof dome cover, up to 1743.68 kgF (3844.16 lbF), IK10
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-30 °C ~ 50 °C (-22 °F ~ 122 °F) for DC 12V -5 °C ~ 50 °C (23 °F ~ 122 °F) for PoE
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

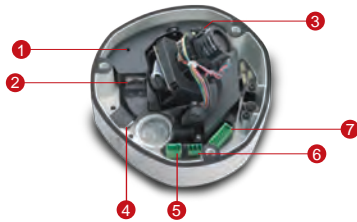
KCM-7311

4M Outdoor Dome with D/N,
Advanced WDR, 3.6x Zoom lens



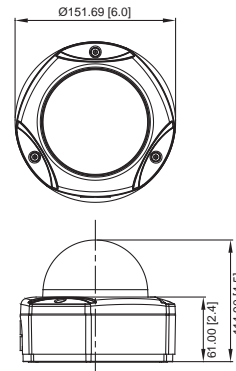
- 1/3.2" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 lux at F1.4
- 3.6 x optical zoom
- Built-in f3.3-12 mm / F1.4 Megapixel P-Iris zoom lens
- 8 fps at 2032 x 1920 resolution (1422 TV lines)
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Up to 4 cropped regions as independent channels
- Two-way audio
- Digital input and digital output
- MicroSDHC card slot for local storage
- Advanced WDR
- 2D+3D Digital noise reduction
- Vandal proof and weatherproof IP66 rated casing
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- 1 Power Button
- 2 Ethernet Port
- 3 Reset Button
- 4 MicroSDHC Card Slot
- 5 Audio Input / Output
- 6 DC 12V Power Input
- 7 Digital Input / Output

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-1101		4-inch, smoke, vandal proof

Power Adapter		
PPBX-0002		Universal Power Adapter, 100~240V, 4 different connectors included

Popular Mounting Solutions		
Surface	Accessories not required	
Wall	PMAx-0308	
Pendant	PMAx-0101 + PMAx-0103	
Corner	PMAx-0101 + PMAx-0303 + PMAx-0402	
Pole	PMAx-0101 + PMAx-0303 + PMAx-0502	
Flush	PMAx-1003	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

KCM-7311

• Device

Device Type	Fixed Outdoor Dome Camera
Image Sensor	Aptina Progressive Scan CMOS
Sensor Size	1/3.2" (4.5 x 3.4 mm)
Horizontal Resolution	1422 TVL
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.4 (30 IRE, 2400°K); B/W: 0.05 lux at F1.4 (30 IRE, 2400°K)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	No
IR LED	No
Electronic Shutter	1/25 - 1/2000 sec (50Hz); 1/15 - 1/2000 sec (60Hz) (manual mode) 1 - 1/2000 sec (auto mode)

• Lens

Focal Length / Aperture	Zoom, f3.3 - 12 mm / F1.4 - 2.9
Zoom Ratio	3.6x optical
Iris	P-Iris
Focus	Auto Focus
Mount Type	Board Mount
Horizontal Viewing Angle	77.22° - 22.62°
Viewing Angle Adjustment	Pan: 0° - 360°; Tilt: 0° - 180°; Rotate: 0° - 360°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution (H.264, MJPEG)	8 fps at 2032 X 1920; 15 fps at 1920 X 1080 (HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Maximum Frame Rate vs. Resolution (MPEG-4 SP)	5 fps at 2032 X 1920; 11 fps at 1920 X 1080 (HD 1080p); 25 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
4 Cropped VGA Mode (All Compressions)	15 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Advanced WDR; White balance: automatic, hold and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; 2D+ 3D Digital noise reduction; Flickerless; Defogging
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Terminal block
Audio-Out	Terminal block

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection 3 regions in single view mode, 1 region each in 4 cropped VGA mode; External device through digital input
Alarm Response	Notify control center; Go to Zoom preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 12.24W DC 12V /10.2W (adapter not included)
Weight	1200 g (2.65 lb)
Dimensions (Ø x H)	151.69 mm x 114.9 mm (5.97" x 4.52")
Environmental Casing	Weatherproof (IP66 rated); Transparent vandal proof dome cover, up to 659.23 kgF (1453.35 lbF)
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

Bullet Cameras



HD

Full HD
1080PFull HD
1080P

Fixed Bullet Camera

E Series

Model Name	E31	E32	E33
Resolution	1M	3M	5M
Application Environment	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Lens	Fixed focal lens, f4.2mm / F1.8, Fixed iris	Fixed focal lens, f4.2mm / F1.8, Fixed iris	Fixed focal lens, f4.2mm / F1.8, Fixed iris
Horizontal Viewing Angle	55.9°	64.1°	64.1°
Lens Mount	Board mount	Board mount	Board mount
Day / Night	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes
IR LED	Yes	Yes	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)
Wide Dynamic Range	Basic WDR	Basic WDR	Basic WDR
Digital Noise Reduction	DNR	DNR	DNR
Maximum Frame Rate at Maximum Resolution	30 fps at 1280 x 720	15 fps at 2048 x 1536	15 fps at 2592 x 1944
Multi-Streaming	Simultaneous dual streams based on two configurations		
Audio	No	No	No
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	No	No	No
Power Source	PoE Class 2	PoE Class 2	PoE Class 2
Bundled Accessories	Bracket	Bracket	Bracket
Mount Type	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole
Environmental Casing	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66
Bracket Option	PMAX-1103	PMAX-1103	PMAX-1103

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

Bullet Cameras



HD



HD

	Fixed Bullet Camera	Vari-Focal Bullet Camera
	TCM Series	TCM Series
	TCM-1111	TCM-1231
Model Name	TCM-1111	TCM-1231
Resolution	1.3M	1.3M
Application Environment	Indoor/Outdoor	Indoor/Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS
Lens	Fixed focal, f4.2mm/ F1.8, Fixed iris	Vari-focal, f3.3 - 12 mm / F1.6, Fixed iris
Horizontal Viewing Angle	64.7°	76.5° - 21.7°
Lens Mount	Board Mount	Board mount
Day / Night	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes
IR LED	Yes	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 B/W: 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W: 0 lux (IR LED on)
Wide Dynamic Range	No	Basic WDR
Digital Noise Reduction	No	No
Maximum Frame Rate at Maximum Resolution	18 fps at 1280 x 1024	18 fps at 1280 x 1024
Multi-Streaming		Simultaneous dual streams based on two configurations
Audio	No	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	No	1/1
Power Source	PoE Class 3	DC 12V; PoE Class 3
Bundled Accessories	No	No
Mount Type	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole
Environmental Casing	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)
Operating Temperature	-20 °C ~ 50 °c (-4 °F ~ 122 °F)	-20 °C ~ 50 °c (-4 °F ~ 122 °F)
Approvals	CE, FCC, IP66	CE, FCC, IP66
Bracket Option	PMAX-1103	PMAX-1103

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

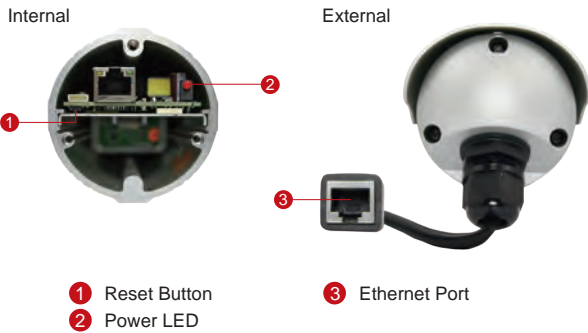
E31

1MP Bullet with D/N, IR, Basic WDR, Fixed lens

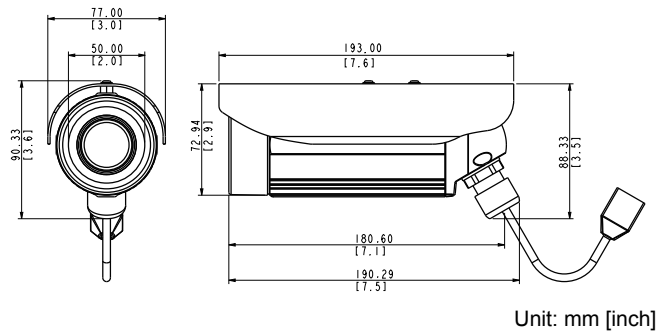


- Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0 lux with IR LED on
- Built-in f4.2 mm / F1.8 Megapixel fixed lens
- 30 fps, at 1280 x 720 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Video motion detection
- Weatherproof IP66 rated casing
- Powered by PoE Class 2

PHOTO INDICATION



DIMENSION DIAGRAM



ACCESSORY OPTIONS

Camera Bracket		
PMAX-1103		Aluminum, max. load 10 kg (22.05 lb), tilt angle 90°, swivel angle 360°

Popular Mounting Solutions		
Corner	PMAX-1103 PMAX-0402	
Pole	PMAX-1103 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

E31

• Device

Device Type	Bullet Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	ISP sensor based switch; Configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 20 (850 nm)
IR Working Distance	15 m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/5~1/2000 sec (manual/ auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f4.2 mm / F1.8
Iris	Fixed iris
Focus	Fixed Focus
Lens Mount	Board Mount
Horizontal Viewing Angle	55.9°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA);
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 5.41 W (IR on)
Weight	584 g (1.29 lb)
Dimensions (Ø x L)	77 mm x 196.74 mm (3.04" x 7.7")
Bundled Accessories	Bracket
Environmental Casing	Weatherproof (IP66 rated)
Mount Type	Wall, Ceiling, Corner, Pole
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

E32

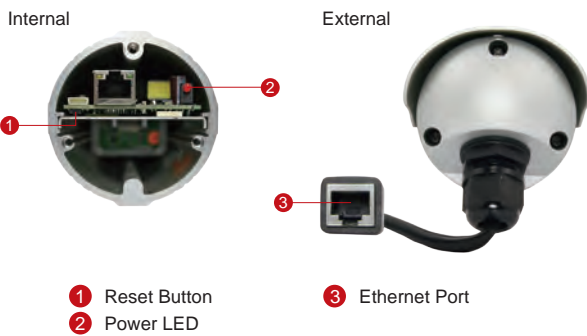
3MP Bullet with D/N, IR, Basic WDR, Fixed lens



* The bracket is included.

- Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0 lux with IR LED on
- Built-in f4.2 mm / F1.8 Megapixel fixed lens
- 15 fps at 2048 x 1536 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Video motion detection
- Weatherproof IP66 rated casing
- Powered by PoE Class 2

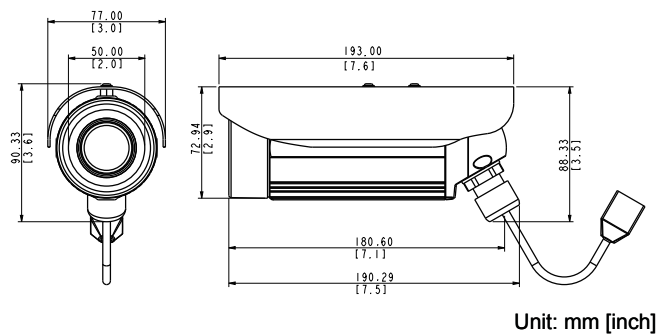
PHOTO INDICATION



- 1 Reset Button
- 2 Power LED

- 3 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Camera Bracket

PMAX-1103

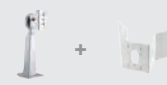


Aluminum, max. load 10 kg (22.05 lb), tilt angle 90°, swivel angle 360°

Popular Mounting Solutions

Corner

PMAX-1103
PMAX-0402



Pole

PMAX-1103
PMAX-0502



* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

E32

• Device

Device Type	Bullet Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	ISP sensor based switch; Configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 20 (850 nm)
IR Working Distance	15 m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f4.2mm / F1.8
Iris	Fixed iris
Focus	Fixed Focus
Lens Mount	Board Mount
Horizontal Viewing Angle	64.1°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	15 fps at 2048 x 1536; 30 fps at 1920 x 1080 (Full HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 6.29 W (IR on)
Weight	584 g (1.29 lb)
Dimensions (Ø x L)	77 mm x 196.74 mm (3.04" x 7.7")
Bundled Accessories	Bracket
Environmental Casing	Weatherproof (IP66 rated)
Mount Type	Wall, Ceiling, Corner, Pole
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

E33

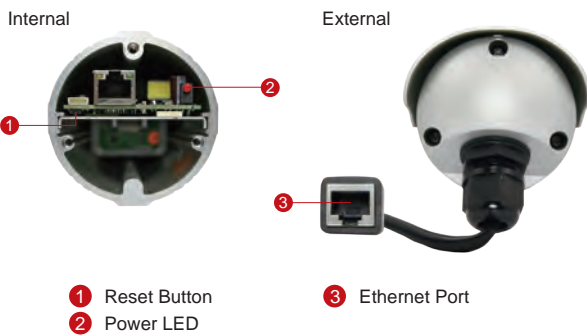
5MP Bullet with D/N, IR, Basic WDR, Fixed lens



* The bracket is included.

- Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0 lux with IR LED on
- Built-in f4.2 mm / F1.8 Megapixel fixed lens
- 15 fps at 2592x1944 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Video motion detection
- Weatherproof IP66 rated casing
- Powered by PoE Class 2

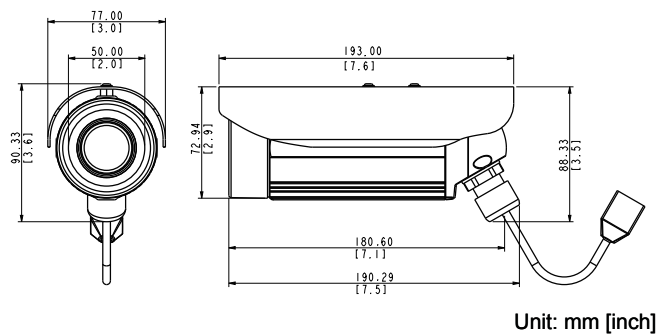
PHOTO INDICATION



- 1 Reset Button
- 2 Power LED

- 3 Ethernet Port

DIMENSION DIAGRAM



ACCESSORY OPTIONS

Camera Bracket

PMAX-1103



Aluminum, max. load 10 kg (22.05 lb), tilt angle 90°, swivel angle 360°

Popular Mounting Solutions

Corner

PMAX-1103
PMAX-0402



Pole

PMAX-1103
PMAX-0502



* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

E33

• Device

Device Type	Bullet Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	ISP sensor based switch; Configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 20 (850 nm)
IR Working Distance	15m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f4.2 mm / F1.8
Iris	Fixed iris
Focus	Fixed Focus
Lens Mount	Board Mount
Horizontal Viewing Angle	64.1°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	15 fps at 2592 x 1944; 15fps at 2048 x 1536; 30 fps at 1920 x 1080 (Full HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 6.29W (IR on)
Weight	584 g (1.29 lb)
Dimensions (Ø x L)	77 mm x 196.74 mm (3.04" x 7.7")
Bundled Accessories	Bracket
Environmental Casing	Weatherproof (IP66 rated)
Mount Type	Wall, Ceiling, Corner, Pole
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

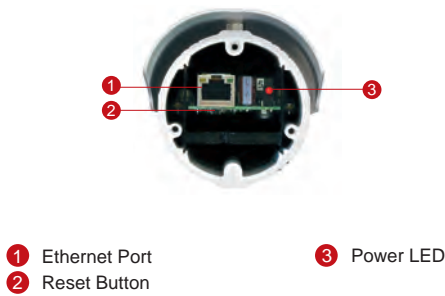
TCM-1111

H.264 Megapixel Outdoor IP IR D/N PoE Bullet Camera with Fixed Lens

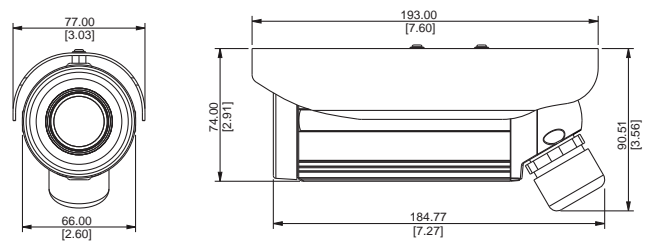


- 1/3" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0 lux with IR LED on
- Built-in f4.2 mm / F1.8 Megapixel fixed lens
- 18 fps at 1280 x 1024 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Video motion detection
- Weatherproof IP66 rated casing
- Powered by PoE Class 2

PHOTO INDICATION



DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Camera Bracket

PMAX-1103

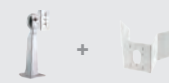


Aluminum, max. load 10 kg (22.05 lb), tilt angle 90°, swivel angle 360°

Popular Mounting Solutions

Corner

PMAX-1103
PMAX-0402



Pole

PMAX-1103
PMAX-0502



* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

TCM-1111

• Device

Device Type	Bullet Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3" (4.8 x 3.6 mm)
Day / Night	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	CDS sensor based switch
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 20 (850 nm)
IR Working Distance	15 m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f4.2 mm / F1.8
Iris	Fixed iris
Focus	Fixed Focus
Horizontal Viewing Angle	64.7°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	18 fps at 1280 x 1024 (SXGA); 26 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 5.76 W (IR on)
Weight	610 g (1.35 lb)
Dimensions (Ø x L)	77 mm x 193 mm (3.04" x 7.60")
Environmental Casing	Weatherproof (IP66 rated)
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

TCM-1231

H.264 Megapixel Outdoor IP
IR D/N PoE Bullet Camera



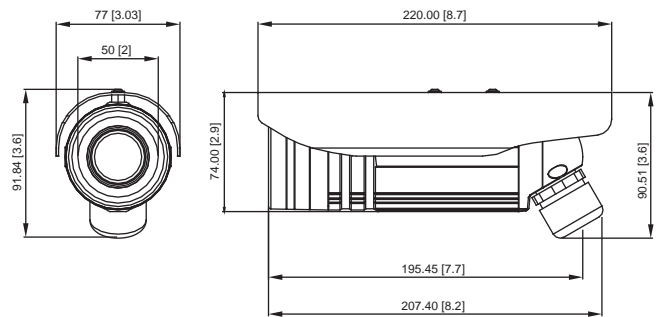
- 1/3" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0 lux with IR LED on
- Built-in f3.3-12 mm / F1.6 Megapixel vari-focal lens
- 18 fps at 1280 x 1024 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Digital input and digital output
- Basic WDR
- Weatherproof IP66 rated casing
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- | | |
|---|-----------------|
| 1 DC 12V Power Input | 3 Reset Button |
| 2 Audio Input / Output & Digital Input / Output | 4 Ethernet Port |

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Camera Bracket		
PMAX-1103		Aluminum, max. load 10 kg (22.05 lb), tilt angle 90°, swivel angle 360°
Power Adapter		
PPBX-0002		Universal Power Adapter, 100~240V, 4 different connectors included

Popular Mounting Solutions		
Corner	PMAX-1103 PMAX-0402	
Pole	PMAX-1103 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

TCM-1231

• Device

Device Type	Bullet Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3" (4.8 x 3.6 mm)
Day / Night	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	CDS sensor based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 24 (850 nm)
IR Working Distance	30 m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens

Focal Length / Aperture	Vari-focal, f3.3 - 12 mm / F1.6
Iris	Fixed iris
Focus	Manual focus
Horizontal Viewing Angle	76.5° - 21.7°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	18 fps at 1280 x 1024 (SXGA); 26 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	Basic WDR; White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Terminal block
Audio-Out	Terminal block

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	1, terminal block
Digital Output	1, terminal block

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 8.16 W (IR on) DC 12V / 6.96 W (IR on) (adapter not included)
Weight	685 g (1.51 lb)
Dimensions (Ø x L)	77 mm x 220 mm (3.03" x 8.66")
Environmental Casing	Weatherproof (IP66 rated)
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

Box Cameras



HD

Full HD
1080P

HD

Box Camera with Fixed and Vari-Focal Options

Model Name	E Series		TCM Series
	E21	E22	TCM-5111
Resolution	1M	5M	1.3M
Application Environment	Indoor/Outdoor*	Indoor/Outdoor*	Indoor / Outdoor*
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Zoom Ratio	No	No	No
Lens	Bundled Fixed focal lens, f4.2mm/ F1.8; Fixed Iris; Compatible fixed and vari- focal DC-iris lenses available	Bundled Fixed focal lens, f2.8mm/ F2.0; Fixed Iris; Compatible fixed and vari- focal DC-iris lenses available	Bundled Fixed focal lens, f4.2mm/F1.8; Fixed Iris; Compatible manual Iris lenses available
Horizontal Viewing Angle	57.8°	81.6°	64.4°
Lens Mount	CS mount (interchangeable lens)		
Day / Night	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes
IR LED	No	No	No
Minimum Illumination	Color: 0.1 lux at F1.8 B/W: 0.05 lux	Color: 0.1 lux at F1.8 B/W: 0.05 lux	Color: 0.5 lux F1.0 B/W : 0.05 lux F1.0
Wide Dynamic Range	Basic WDR	Basic WDR	No
Digital Noise Reduction	DNR	DNR	No
Maximum Frame Rate at Maximum Resolution	30 fps at 1280 x 720	15 fps at 2592 x 1944	18 fps at 1280 x 1024
Multi-Streaming	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations
Audio	No	No	No
Network Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour		
Digital Input/Output	No	No	No
Power Source	PoE Class 2	PoE Class 2	PoE Class 2
Environmental Casing	Optional housing (IP66 rated)		Optional housing (IP66 rated)
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)
Approvals	CE, FCC	CE, FCC	CE, FCC
Lens Option	PLEN-0119	PLEN-0101	PLEN-0202
Bracket Option	PMAX-1100	PMAX-1100	PMAX-1100

* Outdoor application requires weatherproof housing

Box Cameras

Full HD
1080PFull HD
1080PFull HD
1080PFull HD
1080P

Box Camera with Zoom Lens

KCM Series

Model Name	KCM-5511	KCM-5611	KCM-5211	KCM-5211E
Resolution	2M	2M	4M	4M
Application Environment	Outdoor	Outdoor	Indoor	Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Zoom Ratio	22x optical	18x optical	18x optical	18x optical
Lens	Zoom, f3.2 ~ 70.4mm / F1.6 - F3.8, DC Iris	Zoom, f4.7 ~ 84.6mm / F1.6 ~ 2.8, DC Iris		
Horizontal Viewing Angle	57.14° - 2.98°	48.94° - 3.61°	48.94° - 3.61°	48.94° - 3.61°
Lens Mount	Board Mount	Board Mount	Board Mount	Board Mount
Day / Night	Yes	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes
IR LED	Yes	Yes	No	Yes
Minimum Illumination	Color: 0.1 lux at F1.6 B/W : 0 lux (IR LED on)	Color: 0.1 lux at F1.6 B/W : 0 lux (IR LED on)	Color: 0.1 lux at F1.6 B/W: 0.05 lux at F1.6	Color: 0.1 lux at F1.6 B/W : 0 lux (IR LED on)
Wide Dynamic Range	Advanced WDR	Advanced WDR	No	Advanced WDR
Digital Noise Reduction	2D+3D DNR	2D+3D DNR	No	2D+3D DNR
Maximum Frame Rate at Maximum Resolution	15 fps at 1920 X 1080	15 fps at 1920 x 1080	8 fps at 2032 X 1920	8 fps at 2032 X 1920
Multi-Streaming	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	
Audio	2-way	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour, Pelco-D			
Digital Input/Output	2/2	2/2	2/2	2/2
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Environmental Casing	Weatherproof (IP66 rated)		N/A	Weatherproof (IP66 rated)
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC	CE, FCC, IP66
Bracket Option	PMAX-1101	PMAX-1101	PMAX-1100	PMAX-1101
Other Value-added Features	Local storage, Defogging	Local storage, Defogging	Local storage	Local storage, Defogging

Hemispheric

Dome

Bullet

Box

Cube

PTZ

Speed Dome

Video Encoder

Video Decoder

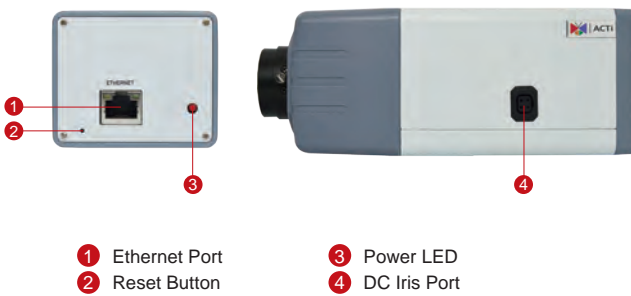
E21

1MP Box with D/N, Basic WDR, Fixed lens

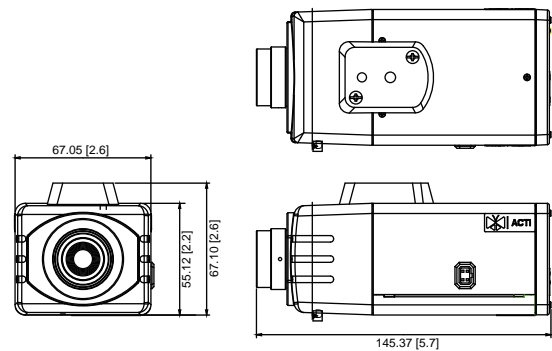


- Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 lux at F1.8
- Built-in f4.2mm / F1.8 Megapixel fixed lens
- 30 fps at 1280 x 720 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Video motion detection
- Powered by PoE Class 2

PHOTO INDICATION



DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Lens		
PLEN-0119		IR Compatible, Fixed Iris, F2.0, 2.8mm, 72°

Popular Mounting Solutions		
Corner	PMAX-0202 PMAX-1101 PMAX-0402	
Pole	PMAX-0202 PMAX-1101 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

Outdoor Housing & Bracket		
PMAX-0200		IP66, with heater and fan powered by 110V AC, -30 °C ~ 50 °C (-22 °F ~ 122 °F), requires housing bracket
PMAX-0201		IP66, with heater and fan powered by 220V AC, -30 °C ~ 50 °C (-22 °F ~ 122 °F), requires housing bracket
PMAX-0202		IP66, -10°C ~ 50°C (14 °F ~ 122 °F), requires housing bracket
PMAX-1101		Aluminum, max. load 10 kg (22.05 lb), tilt angle 90° (For PMAX-0200, PMAX-0201, PMAX-0202)

Camera Bracket		
PMAX-1100		Plastic, max. load 3.5 kg (7.72 lb), tilt angle 90°

PRODUCT SPECIFICATION

E21

• Device

Device Type	Box Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE, 2400°K); B/W: 0.05 lux at F1.8 (30 IRE, 2400°K)
Color to B/W switch	ISP based switch; Configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/5 - 1/2000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f4.2 mm / F1.8
Iris	Fixed iris
Focus	Manual focus
Lens Mount	CS Mount (interchangeable lens)
Horizontal Viewing Angle	57.8°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control*

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• Interface

DC Iris Connector	External connector for DC Iris lens
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• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 3.31 W
Weight	400 g (0.88 lb)
Dimensions (W x H x D)	67.05 mm x 67.10 mm x 145.37 mm (2.6" x 2.6" x 5.7")
Environmental Casing	Optional housing (IP66 rated)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available, ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

E22

5MP Box with D/N, Basic WDR, Fixed lens

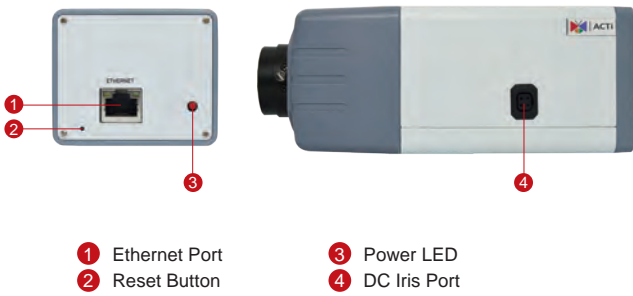


* One fixed lens is included.

- Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 lux at F2.0
- Built-in f2.8mm / F2.0 Megapixel fixed lens
- 15 fps at 2592 x 1944 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Video motion detection
- Powered by PoE Class 2

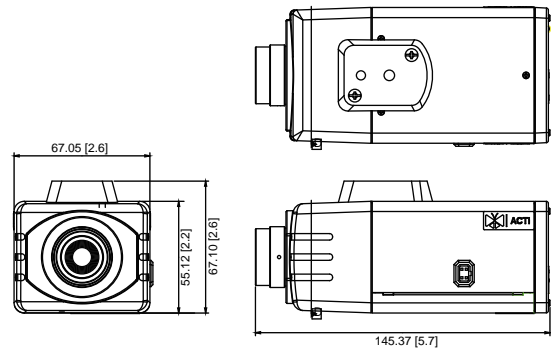
*The camera will be available in Q1, 2013

PHOTO INDICATION




- 1 Ethernet Port
- 2 Reset Button
- 3 Power LED
- 4 DC Iris Port

DIMENSION DIAGRAM







Unit: mm [inch]


ACCESSORY OPTIONS

Lens		
PLEN-0101		IR Compatible, Fixed Iris, f4.2mm, F1.8, 62°

Popular Mounting Solutions		
Corner	PMAX-0202 PMAX-1101 PMAX-0402	
Pole	PMAX-0202 PMAX-1101 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

Outdoor Housing & Bracket		
PMAX-0200		IP66, with heater and fan powered by 110V AC, -30 °C ~ 50 °C (-22 °F ~ 122 °F), requires housing bracket
PMAX-0201		IP66, with heater and fan powered by 220V AC, -30 °C ~ 50 °C (-22 °F ~ 122 °F), requires housing bracket
PMAX-0202		IP66, -10°C ~ 50°C (14 °F ~ 122 °F), requires housing bracket
PMAX-1101		Aluminum, max. load 10 kg (22.05 lb), tilt angle 90° (For PMAX-0200, PMAX-0201, PMAX-0202)

Camera Bracket		
PMAX-1100		Plastic, max. load 3.5 kg (7.72 lb), tilt angle 90°

PRODUCT SPECIFICATION

E22

• Device

Device Type	Box Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F2.0 (30 IRE, 2400°K); B/W: 0.05 lux at F2.0 (30 IRE, 2400°K)
Color to B/W switch	ISP based switch; Configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/5 - 1/2000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f2.8 mm / F2.0
Iris	Fixed iris
Focus	Manual focus
Lens Mount	CS Mount (interchangeable lens)
Horizontal Viewing Angle	81.6°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	15fps at 2592 x 1944; 15fps at 2048 x 1536; 30 fps at 1920 x 1080 (Full HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Saturation; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control*

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• Interface

DC Iris Connector	External connector for DC Iris lens
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• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 4.32 W
Weight	400 g (0.88 lb)
Dimensions (W x H x D)	67.05mm x 67.10mm x 145.37mm (2.6" x 2.6" x 5.7")
Environmental Casing	Optional housing (IP 66 rated)
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available, ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

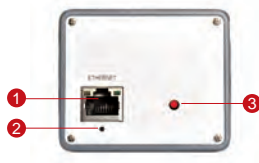
TCM-5111

H.264 Megapixel IP D/N PoE
Class 2 Box Camera



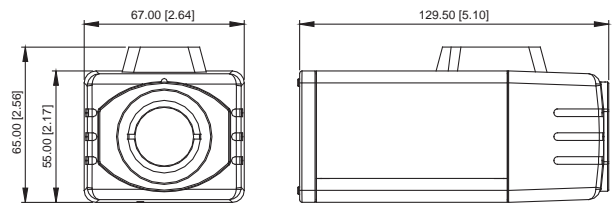
- 1/3" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 lux at F1.0
- Bundled f4.2 mm / F1.8 Megapixel fixed lens
- 18 fps at 1280 x 1024 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Video motion detection
- Powered by PoE Class 2

PHOTO INDICATION



- ① Ethernet Port
- ② Reset Button
- ③ Power LED

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Lens

PLEN-0202		IR Compatible, Manual Iris, F1.6, 2.8 mm - 12 mm, 91.1° - 22.9°
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Popular Mounting Solutions

Corner	PMAX-0200/ PMAX-0201 PMAX-1101 PMAX-0402	
Pole	PMAX-0200/ PMAX-0201 PMAX-1101 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

Outdoor Housing & Bracket

PMAX-0200		IP66, with heater and fan powered by 110V AC, -30 °C ~ 50 °C (-22 °F ~ 122 °F), requires housing bracket
PMAX-0201		IP66, with heater and fan powered by 220V AC, -30 °C ~ 50 °C (-22 °F ~ 122 °F), requires housing bracket
PMAX-0202		IP66, -10°C ~ 50°C (14 °F ~ 122 °F), requires housing bracket
PMAX-1101		Aluminum, max. load 10 kg (22.05 lb), tilt angle 90° (For PMAX-0200, PMAX-0201, PMAX-0202)

Camera Bracket

PMAX-1100		Plastic, max. load 3.5 kg (7.72 lb), tilt angle 90°
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PRODUCT SPECIFICATION

TCM-5111

• Device

Device Type	Box Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3" (4.8 x 3.6 mm)
Day / Night	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400°K) B/W: 0.05 lux at F1.0 (30 IRE, 2400°K)
Color to B/W switch	CDS sensor based switch
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f4.2 mm / F1.8
Iris	Fixed iris
Focus	Manual focus
Mount Type	C/CS mount (interchangeable lens)
Horizontal Viewing Angle	64.4°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	18 fps at 1280 x 1024 (SXGA); 26 fps at 1280 x 720 (HD 720p) ; 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 4.51 W
Weight	400 g (0.88 lb)
Dimensions (W x H x D)	67 mm x 55 mm x 129.5 mm (2.64" x 2.17" x 5.10")
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

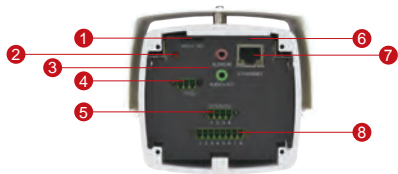
KCM-5511

2M Outdoor Box with D/N, IR, Advanced WDR, 22x Zoom lens



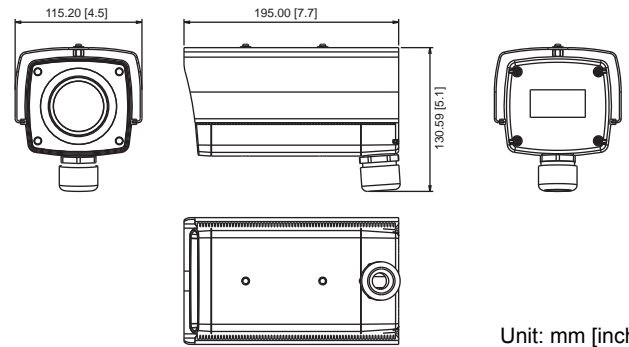
- 1/3.2" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0 lux with IR LED on
- 22x optical zoom
- Built-in f3.2-70.4 mm / F1.6-3.8 Megapixel DC iris zoom lens
- 15 fps at 1920 x 1080 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Serial port for external pan & tilt scanner
- Two-way audio
- Weatherproof IP66 rated casing
- Advanced WDR
- 2D+3D Digital noise reduction
- Video Motion Detection
- Powered by PoE Class 3

PHOTO INDICATION



- | | |
|------------------------|--------------------------|
| 1 MicroSDHC Card Slot | 5 Serial Port |
| 2 Power LED | 6 Reset Button |
| 3 Audio Input / Output | 7 Ethernet Port |
| 4 DC 12V Power Input | 8 Digital Input / Output |

DIMENSION DIAGRAM



ACCESSORY OPTIONS

Camera Bracket

PMAX-1101



Aluminum, max. load 10 kg (22.05 lb), tilt angle 90°, swivel angle 360°

Pan & Tilt Scanner

Third party Pan & Tilt Scanners available at: www.acti.com/pantilt/

Power Adapter

PPBX-0002



Universal Power Adapter, 100~240V, 4 different connectors included

Popular Mounting Solutions

Corner	PMAX-1101 PMAX-0402	
Pole	PMAX-1101 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

KCM-5511

• Device

Device Type	Box Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3.2" (4.5 x 3.4 mm)
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.6 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 24 (850 nm)
IR Working Distance	20m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/13 - 1/2000 sec (50Hz); 1/15 - 1/2000 sec (60Hz) (manual mode) 1/15 - 1/2000 sec (auto mode)

• Lens

Focal Length / Aperture	Zoom, f3.2 - 70.4 mm / F1.6 - 3.8
Zoom Ratio	22x optical
Iris	DC Iris
Focus	Auto Focus
Horizontal Viewing Angle	57.14° - 2.98°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution (H.264, MJPEG)	15 fps at 1920 X 1080 (HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Maximum Frame Rate vs. Resolution (MPEG-4 SP)	11 fps at 1920 X 1080 (HD 1080p); 25 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Advanced WDR; White balance: automatic, hold and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; 2D+3D Digital noise reduction; Flickerless; Defogging
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	3.5mm Phone Jack
Audio-Out	3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour, Pelco-D
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Go to Zoom preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Serial Port	RS-485, RS-422, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 7.92W (IR on) DC 12V / 9.8W (adapter not included)
Weight	1350 g (2.98 lb)
Dimensions (W x H x D)	115.20mm x 130.59mm x 195.00mm (4.50" x 5.10" x 7.70")
Environmental Casing	Weatherproof (IP66 rated)
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

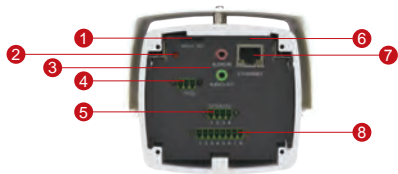
KCM-5611

2M Outdoor Box with D/N, IR,
Advanced WDR, SLLS, 18x Zoom lens



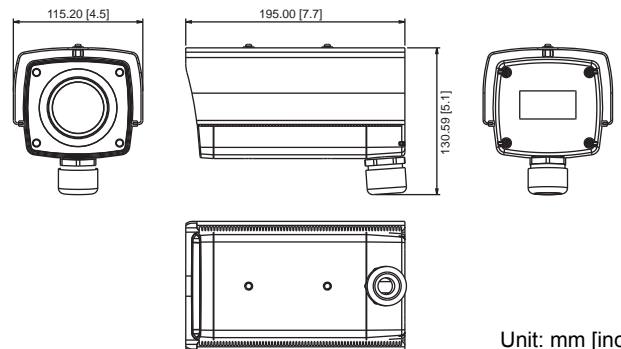
- 1/2.8" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Superior low light sensitivity
- Minimum illumination 0 lux with IR LED on
- 18x optical Zoom
- Built-in f4.7- 84.6 mm / F1.6-2.8 Megapixel DC Iris zoom lens
- 15 fps at 1920 x 1080 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Serial port for external pan & tilt scanner
- Two-way audio
- Weatherproof IP66 rated casing
- Advanced WDR
- 2D+3D Digital Noise Reduction
- Video Motion Detection
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- | | |
|------------------------|--------------------------|
| ① MicroSDHC Card Slot | ⑤ Serial Port |
| ② Power LED | ⑥ Reset Button |
| ③ Audio Input / Output | ⑦ Ethernet Port |
| ④ DC 12V Power Input | ⑧ Digital Input / Output |

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Camera Bracket

PMAX-1101



Aluminum, max. load 10 kg (22.05 lb), tilt angle 90°, swivel angle 360°

Power Adapter

PPBX-0002



Universal Power Adapter, 100~240V, 4 different connectors included

Pan & Tilt Scanner

Third party Pan & Tilt Scanners available at: www.acti.com/pantilt/

Popular Mounting Solutions

Corner	PMAX-1101 PMAX-0402	
Pole	PMAX-1101 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

KCM-5611

• Device

Device Type	Box Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.8" (5.42 x 3.41 mm)
Horizontal Resolution	974 TVL
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.6 (30 IRE, 2400 °K) B/W: 0 lux (IR LED on)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 24 (850 nm)
IR Working Distance	20m (0 lux, 30 IRE, Max Exposure Gain)
Electronic Shutter	1/13 - 1/2000 sec (50Hz); 1/15 - 1/2000 sec (60Hz) (manual mode) 1 - 1/2000 sec (auto mode)

• Lens

Focal Length	Zoom, f4.7 - 84.6 mm / F1.6 - 2.8
Zoom Ratio	18x optical
Iris	DC Iris
Focus	Auto Focus
Horizontal Viewing Angle	48.94° - 3.61°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution (H.264, MJPEG)	15 fps at 1920 x 1080, 30 fps at 1280 x 720, 30 fps at 640 x 480
Maximum Frame Rate vs. Resolution (MPEG-4 SP)	11 fps at 1920 x 1080, 25 fps at 1280 x 720, 30 fps at 640 x 480
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Advanced WDR; White balance: automatic, hold and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; 2D+3D Digital Noise Reduction; Flickerless; Defogging
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	3.5mm Phone Jack
Audio-Out	3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour, Pelco-D
Ethernet Port	1, Ethernet (10/100Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Go to Zoom preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Serial Port	RS-485, RS-422, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 10.7 W (IR on) DC 12V / 8.5W (adapter not included)
Weight	1324g (2.92 lb)
Dimensions (W x H x D)	115.20 mm x 130.59 mm x 195.00 mm (4.50" x 5.10" x 7.70")
Environmental Casing	Weatherproof (IP66 rated)
Operating Temperature	- 30 °C ~ 50 °C (-22 °F ~ 122 °F)
Operating Humidity	10%~ 85% RH
Approvals	Camera: CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

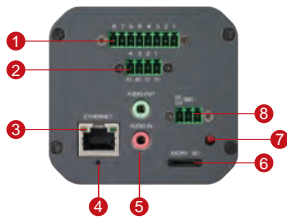
KCM-5211

4M Box with D/N, 18x Zoom lens



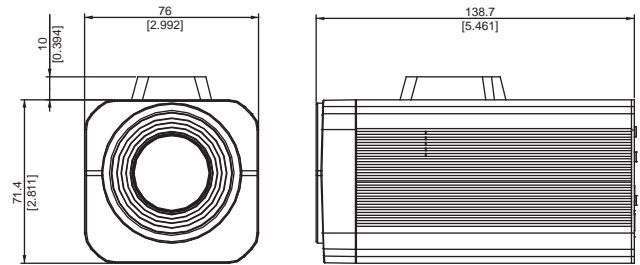
- 1/3.2" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.05 lux at F1.6
- 18 x optical zoom
- Built-in f4.7-84.6 mm / F1.6-2.8 Megapixel DC iris zoom lens
- 8 fps at 2032 x 1920 resolution (1409 TV lines)
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Up to 4 cropped regions as independent channels
- Two-way audio
- Digital input and digital output
- MicroSDHC card slot for local storage
- Video Motion Detection
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- | | |
|--------------------------|------------------------|
| 1 Digital Input / Output | 5 Audio Input / Output |
| 2 Serial Port | 6 MicroSDHC Card Slot |
| 3 Ethernet Port | 7 Power LED |
| 4 Reset Button | 8 DC 12V Power Input |

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Camera Bracket

PMAX-1100



Plastic, max. load 3.5 kg (7.72 lb), tilt angle 90°

Outdoor Housing & Bracket

Outdoor housings not supported

Power Adapter

PPBX-0002



Universal Power Adapter, 100~240V, 4 different connectors included

PRODUCT SPECIFICATION

KCM-5211

• Device

Device Type	Box Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3.2" (4.5 x 3.4 mm)
Horizontal Resolution	1409 TVL
Day / Night	Yes
Minimum Illumination	Color:0.1 lux at F1.6 (30 IRE, 2400°K); B/W: 0.05 lux at F1.6 (30 IRE, 2400°K)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/25 - 1/2000 sec (50Hz); 1/15 - 1/2000 sec (60Hz) (manual mode) 1 - 1/2000 sec (auto mode)

• Lens

Focal Length / Aperture	Zoom, f4.7 - 84.6 mm / F1.6 - F2.8
Zoom Ratio	18x optical
Zoom Speed	2.63 sec (1x to 18x)
Iris	DC Iris
Focus	Auto Focus
Horizontal Viewing Angle	48.94° - 3.61°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution (H.264, MJPEG)	8 fps at 2032 X 1920; 15 fps at 1920 X 1080 (HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Maximum Frame Rate vs. Resolution (MPEG-4 SP)	5 fps at 2032 X 1920; 11 fps at 1920 X 1080 (HD 1080p); 25 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
4 Cropped VGA Mode (All Compressions)	15 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	White balance: automatic, hold and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	3.5mm Phone Jack
Audio-Out	3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour, Pelco-D
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection 3 regions in single view mode, 1 region each in 4 cropped VGA mode; External device through digital input
Alarm Response	Notify control center; Go to Zoom preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Serial Port	RS-485, RS-422, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 10.8W DC 12V / 7.56W (adapter not included)
Weight	740 g (1.63 lb)
Dimensions (W x H x D)	76 mm x 71.4 mm x 138.7 mm (2.99" x 2.81" x 5.46")
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

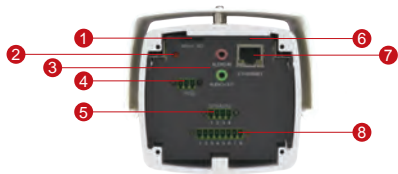
KCM-5211E

4M Outdoor Box with D/N, IR, Advanced WDR, 18x Zoom lens



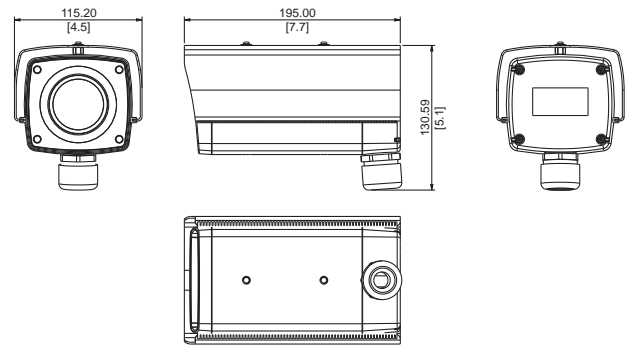
- 1/3.2" Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Minimum illumination 0 lux with IR LED on
- 18 x optical zoom
- Built-in f4.7-84.6 mm / F1.6-2.8 Megapixel DC iris zoom lens
- 8 fps at 2032 x 1920 resolution (1650 TV lines)
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Up to 4 cropped regions as independent channels
- Serial port for external pan & tilt scanner
- Two-way audio
- Weatherproof IP66 rated casing
- Advanced WDR
- 2D+3D Digital noise reduction
- Video Motion Detection
- MicroSDHC card slot for local storage
- Powered by PoE Class 3 / DC 12V

PHOTO INDICATION



- | | |
|------------------------|--------------------------|
| ① MicroSDHC Card Slot | ⑤ Serial Port |
| ② Power LED | ⑥ Reset Button |
| ③ Audio Input / Output | ⑦ Ethernet Port |
| ④ DC 12V Power Input | ⑧ Digital Input / Output |

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Camera Bracket

PMAX-1101



Aluminum, max. load 10 kg (22.05 lb), tilt angle 90°, swivel angle 360°

Power Adapter

PPBX-0002



Universal Power Adapter, 100~240V, 4 different connectors included

Pan & Tilt Scanner

Third party Pan & Tilt Scanners available at: www.acti.com/pantilt/

Popular Mounting Solutions

Corner	PMAX-1101 PMAX-0402	
Pole	PMAX-1101 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

KCM-5211E

• Device

Device Type	Box Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3.2" (4.5 x 3.4 mm)
Horizontal Resolution	1650 TVL
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.6 (30 IRE, 2400°K); B/W: 0 lux (IR LED on)
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	IR LED x 24 (850 nm)
Electronic Shutter	1/25 - 1/2000 sec (50Hz); 1/15 - 1/2000 sec (60Hz) (manual mode) 1 - 1/2000 sec (auto mode)

• Lens

Focal Length / Aperture	Zoom, f4.7 - 84.6 mm / F1.6 - F2.8
Zoom Ratio	18x optical
Zoom Speed	2.63 sec (1x to 18x)
Iris	DC Iris
Focus	Auto Focus
Horizontal Viewing Angle	48.94° - 3.61°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution (H.264, MJPEG)	8 fps at 2032 X 1920; 15 fps at 1920 X 1080 (HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Maximum Frame Rate vs. Resolution (MPEG-4 SP)	5 fps at 2032 X 1920; 11 fps at 1920 X 1080 (HD 1080p); 25 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
4 Cropped VGA Mode (All Compressions)	15 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Advanced WDR; White balance: automatic, hold and manual; Brightness; Contrast; Automatic gain control; 2D+3D Digital noise reduction; Flickerless; Defogging
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	3.5mm Phone Jack
Audio-Out	3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour, Pelco-D
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection 3 regions in single view mode, 1 region each in 4 cropped VGA mode; External device through digital input
Alarm Response	Notify control center; Go to Zoom preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Serial Port	RS-485, RS-422, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 9.12 W (IR on) DC 12V / 11.52 W (IR on) (adapter not included)
Weight	1350 g (2.98 lb)
Dimensions (W x H x D)	115.20mm x 130.59mm x 195.00mm (4.50" x 5.10" x 7.70")
Environmental Casing	Weatherproof (IP66 rated)
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC, IP66

• Integration

Unified Solution	Fully compatible with ACTI software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

Cube Cameras



HD



HD



HD



Full HD 1080P



Full HD 1080P

	Fixed Cube Camera		Fixed Cube Camera with Vari-Focal Option		
	D Series	TCM Series	E Series		
Model Name	D11	TCM-4511	E11	E12	E13
Resolution	1M	1.3M	1M	3M	5M
Application Environment	Indoor	Indoor	Indoor	Indoor	Indoor
Compression	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
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Zoom Ratio	No	No	No	No	No
Lens	Fixed focal lens, f3.6mm / F2.0, Fixed iris	Bundled Fixed focal, f4.2 mm / F1.8; Fixed iris; Compatible manual iris lenses available	Fixed focal lens, f4.2mm / F1.8, Fixed iris; Compatible vari-focal lenses available	Bundled Fixed focal lens, f2.8mm/ F2.0; Fixed Iris; Compatible vari-focal lenses available	Bundled Fixed focal lens, f2.8mm/ F2.0; Fixed Iris; Compatible vari-focal lenses available
Horizontal Viewing Angle	61°	69.2°	57.8°	81.6°	81.6°
Lens Mount	Board mount	CS mount (interchangeable lens)	CS mount (interchangeable lens)	CS mount (interchangeable lens)	CS mount (interchangeable lens)
Day / Night	No	Yes (Electronic)	No	No	No
Mechanical IR Cut Filter	No	No	No	No	No
IR LED	No	No	No	No	No
Minimum Illumination	Color: 0.1 lux at F2.0	Color: 0.5 lux at F1.0; B/W: 0.5 lux at F1.0	Color: 0.1 lux at F1.8	Color: 0.1 lux at F1.8	Color: 0.1 lux at F1.8
Wide Dynamic Range	No	No	Basic WDR	Basic WDR	Basic WDR
Digital Noise Reduction	DNR	No	DNR	DNR	DNR
Maximum Frame Rate at Maximum Resolution	30 fps at 1280 x 720	18 fps at 1280 x 1024	30 fps at 1280 x 720	15 fps at 2048 x 1536	15 fps at 2592 x 1944
Multi-Streaming	Simultaneous dual streams based on two configurations		Simultaneous dual streams based on two configurations		
Audio	No	No	2-way, built-in microphone	2-way, built-in microphone	2-way, built-in microphone
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	No	No	No	No	No
Power Source	PoE Class 1	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2
Bundled Accessories	Bracket	Bracket	Bracket	Bracket	Bracket
Mount Type	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling
Environmental Casing	No	No	No	No	No
Operating Temperature	-10 °C ~ 45 °C (14 °F ~ 113 °F)	-10°C ~ 50°C (14°F ~ 122°F)	-10 °C ~ 45 °C (14 °F ~ 113 °F)	-10 °C ~ 45 °C (14 °F ~ 113 °F)	-10 °C ~ 45 °C (14 °F ~ 113 °F)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Lens Option		PLEN-0201, PLEN0202	PLEN-0119	PLEN-0101	PLEN-0101

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

PTZ/ Speed Dome Cameras



	PTZ Camera		Speed Dome Camera
	ACM Series	KCM Series	TCM Series
Model Name	ACM-8511	KCM-8111	TCM-6630
Resolution	D1	2M	D1
Application Environment	Indoor	Indoor	Outdoor
Compression	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Interlaced Scan CCD	Progressive Scan CMOS	Interlaced Scan CCD
Zoom Ratio	10x optical; 10x digital	18x optical	36x optical; 12x digital
Lens	Zoom, f4.2 - 42 mm / F1.8 -2.9, Auto Iris	Zoom, f4.7~84.6mm / F1.6 -2.8, DC Iris	Zoom, f3.4 - 122.4 mm / F1.6 -4.5, Auto Iris
Horizontal Viewing Angle	48.5° - 5°	48.94° - 3.61°	57.8° - 1.7°
Day / Night	Yes	Yes	Yes
Mechanical IR Cut Filter	No	Yes	Yes
IR LED	No	No	No
Minimum Illumination	Color: 2.5 lux at F1.8; B/W: 0.07 lux at F1.8	Color: 0.1 lux at F1.6; B/W: 0.05 lux at F1.6	Color: 0.1 lux at F1.4; B/W: 0.01 lux at F1.4
Wide Dynamic Range	No	Advanced WDR	Superior WDR
Digital Noise Reduction	No	2D+3D DNR	2D+ 3D DNR
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (NTSC) 25 fps at 720 x 576 (PAL)	15 fps at 1920 x 1080	30 fps at 720 x 480 (NTSC) 25fps at 720 x 576 (PAL)
Multi-Streaming	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations
Audio	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	1/1	2/2	8/1 ***
Power Source	DC 12V; PoE Class 3	DC 12V; High PoE	AC 24V
Bundled Accessories	No	Power adapter	Power adapter
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Pendant, Wall, Corner, Pole
Environmental Casing	No	No	Weatherproof (IP66 rated)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)	-10°C ~ 45°C (14°F ~ 113°F)	-45°C ~ 50°C (-49°F ~ 122°F)
Approvals	CE, FCC	CE, FCC	CE, FCC, IP66
Lens Option	No	No	No
Other Value-added Features	Panning Range: 0° ~ 354°; Tilting Range : -25° ~ 90°	Panning Range: 360° (with Auto-flip) ; Tilting Range:-10° ~ 190°	Panning Range: 0°~ 360° endless; Tilting:-10°~ 190°

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (except ACM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
 ** Flush mount is identical to in-ceiling mount
 *** 8 alarm inputs and 1 alarm output support local event function. 2 alarm inputs support remote event function

D11

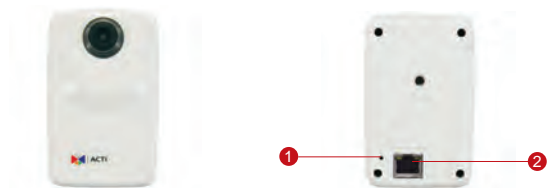
1MP Cube with Fixed lens



* The bracket is included.

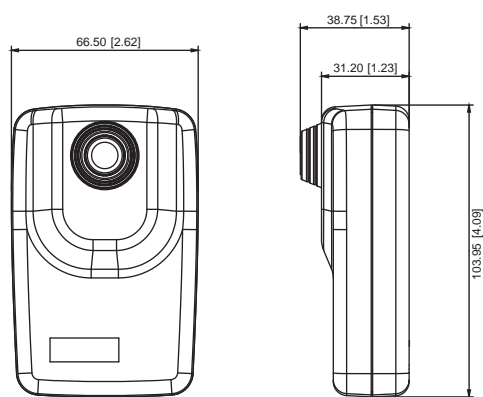
- Progressive Scan CMOS
- Minimum illumination 0.1 lux at F2.0
- Built-in f3.6mm / F2.0 Megapixel fixed lens
- 30 fps at 1280 x 720 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Video motion detection
- Powered by PoE Class 1

PHOTO INDICATION



- 1 Reset Button
- 2 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]

PRODUCT SPECIFICATION

D11

• Device

Device Type	Cube Camera
Image Sensor	Progressive Scan CMOS
Day / Night	No
Minimum Illumination	Color: 0.1 lux at F2.0 (30 IRE, 2400 °K)
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f3.6 mm / F2.0
Iris	Fixed iris
Focus	Fixed focus
Mount Type	Board mount
Horizontal Viewing Angle	61°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	White balance: automatic, hold and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 1 (IEEE802.3af) / 2.95 W
Weight	140 g (0.31 lb)
Dimensions (W x H x D)	66.50 mm x 103.95mm x 38.75mm (2.62" x 4.09" x 1.53")
Bundled Accessories	Bracket
Mount Type	Wall, Ceiling
Operating Temperature	-10 °C ~ 45 °C (14 °F ~ 113 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

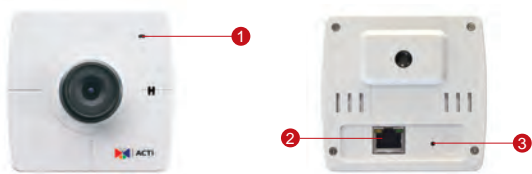
TCM-4511

H.264 Megapixel IP PoE
Cube Camera



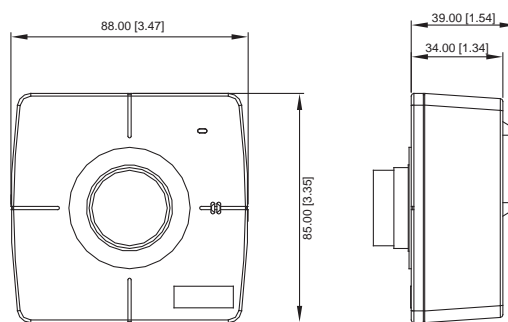
- 1/3" Progressive Scan CMOS
- Minimum illumination 0.5 lux at F1.0
- Built-in f4.2mm / F1.8 Megapixel fixed lens
- 18 fps at 1280 x 1024 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Video motion detection
- Powered by PoE Class 2

PHOTO INDICATION





- 1 Power LED
- 2 Ethernet Port
- 3 Reset Button

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Lens		
PLEN-0201		Manual Iris, F1.2, 2.4 mm - 6 mm, 113.4° - 46°
PLEN-0202		IR Compatible, Manual Iris, F1.6, 2.8 mm - 12 mm, 94° - 25.5°

PRODUCT SPECIFICATION

TCM-4511

• Device

Device Type	Cube Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3" (4.8 x 3.6 mm)
Day / Night	Yes (electronic)
Minimum Illumination	Color: 0.5 lux at F1.0 (30 IRE, 2400 °K); B/W: 0.5 lux at F1.0 (30 IRE, 2400 °K)
Color to B/W switch	DSP based switch, configurable
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
Electronic Shutter	1/30 - 1/1,000 sec (60Hz); 1/25 - 1/1,000 sec (50Hz) (manual mode) 1/5 - 1/15,000 sec (auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f4.2 mm / F1.8
Iris	Fixed iris
Focus	Manual focus
Mount Type	CS mount (interchangeable lens)
Horizontal Viewing Angle	69.2°

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	18 fps at 1280 x 1024 (SXGA); 26 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA); 30 fps at 320 x 240 (QVGA); 30 fps at 160 x 112 (QQVGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	White balance: automatic, hold, predefined and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; Auto exposure: automatic, predefined and manual; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 4.51 W
Weight	150 g (0.331 lb)
Dimensions (W x H x D)	88 mm x 85 mm x 39 mm (3.47" x 3.35" x 1.54")
Bundled Accessories	Bracket
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

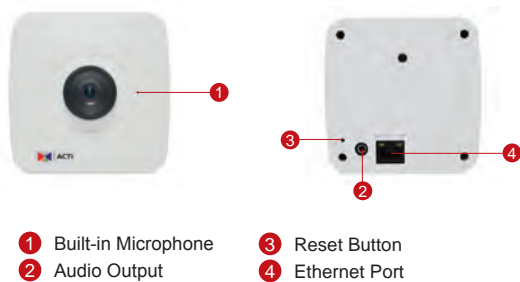
E11

1MP Cube with Basic WDR, Fixed lens



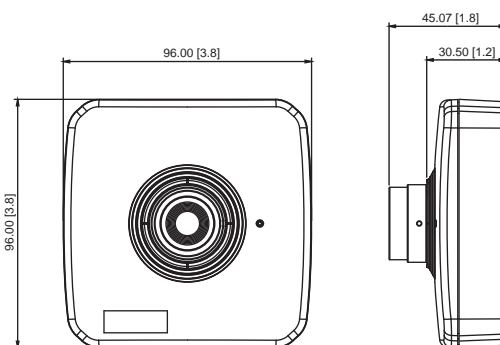
- Progressive Scan CMOS
- Minimum illumination 0.1 lux at F1.8
- Built-in f4.2mm / F1.8 Megapixel fixed lens
- 30 fps at 1280 x 720 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Powered by PoE Class 2

PHOTO INDICATION



- 1 Built-in Microphone
- 2 Audio Output
- 3 Reset Button
- 4 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Lens		
PLEN-0119		Fixed Iris, F2.0, 2.8 mm, 72°

PRODUCT SPECIFICATION

E11

• Device

Device Type	Cube Camera
Image Sensor	Progressive Scan CMOS
Day / Night	No
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE, 2400 °K)
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f4.2 mm / F1.8
Iris	Fixed iris
Focus	Manual focus
Lens Mount	CS Mount (interchangeable lens)
Horizontal Viewing Angle	57.8°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	30fps at 1280 x 720 (HD 720p); 30fps at 640 x 480 (VGA);
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Built-in Microphone
Audio-Out	3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 3.15 W
Weight	205 g (0.45 lb)
Dimensions (W x H x D)	96 mm x 96 mm x 45.07 mm (3.8" x 3.8" x 1.8")
Bundled Accessories	Bracket
Mount Type	Wall, Ceiling
Operating Temperature	-10 °C ~ 45 °C (14 °F ~ 113 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

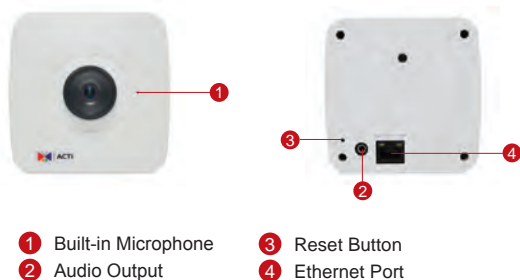
E12

3MP Cube with Basic WDR, Fixed lens



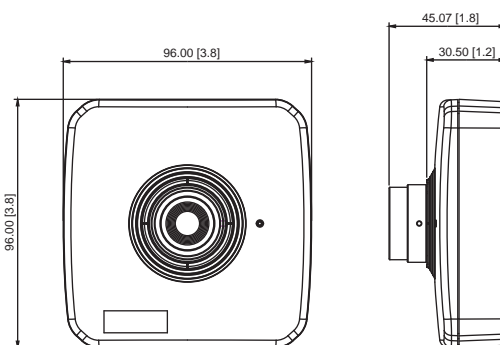
- Progressive Scan CMOS
- Minimum illumination 0.1 lux at F2.0
- Built-in f2.8mm / F2.0 Megapixel fixed lens
- 15 fps at 2048 x 1536 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Powered by PoE Class 2

PHOTO INDICATION




- 1 Built-in Microphone
- 2 Audio Output
- 3 Reset Button
- 4 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Lens		
PLEN-0101		IR Compatible, Fixed Iris, F1.8, f4.2mm, 62°

PRODUCT SPECIFICATION

E12

• Device

Device Type	Cube Camera
Image Sensor	Progressive Scan CMOS
Day / Night	No
Minimum Illumination	Color: 0.1 lux at F2.0 (30 IRE, 2400 °K)
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f2.8 mm / F2.0
Iris	Fixed iris
Focus	Manual focus
Lens Mount	CS Mount (interchangeable lens)
Horizontal Viewing Angle	81.6°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	15fps at 2048 x 1536; 30fps at 1920 x 1080 (Full HD 1080p); 30fps at 1280 x 720 (HD 720p); 30fps at 640 x 480 (VGA);
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Built-in Microphone
Audio-Out	3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 3.67W
Weight	205 g (0.45 lb)
Dimensions (W x H x D)	96mm x 96mm x 45.07mm (3.8" x 3.8" x 1.8")
Bundled Accessories	Bracket
Mount Type	Wall, Ceiling
Operating Temperature	-10 °C ~ 45 °C (14 °F ~ 113 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

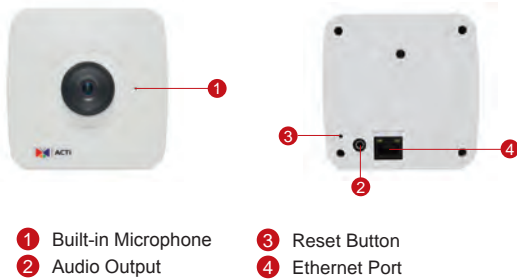
E13

5MP Cube with Basic WDR, Fixed lens



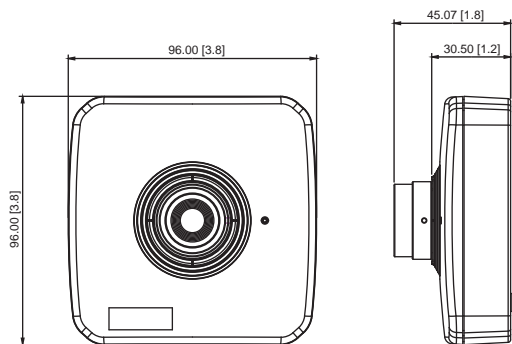
- Progressive Scan CMOS
- Minimum illumination 0.1 lux at F2.0
- Built-in f2.8mm / F2.0 Megapixel fixed lens
- 15 fps at 2592 x 1944 resolution
- Selectable H.264 HP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Powered by PoE Class 2

PHOTO INDICATION



- 1 Built-in Microphone
- 2 Audio Output
- 3 Reset Button
- 4 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Lens

PLEN-0101



IR Compatible, Fixed Iris, F1.8, f4.2mm, 62°

PRODUCT SPECIFICATION

E13

• Device

Device Type	Cube Camera
Image Sensor	Progressive Scan CMOS
Day / Night	No
Minimum Illumination	Color: 0.1 lux at F2.0 (30 IRE, 2400 °K)
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
Electronic Shutter	1/5 - 1/2,000 sec (Manual / Auto mode)

• Lens

Focal Length / Aperture	Fixed focal, f2.8 mm / F2.0
Iris	Fixed iris
Focus	Manual focus
Lens Mount	CS Mount (interchangeable lens)
Horizontal Viewing Angle	81.6°

• Video

Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	15fps at 2592 x 1944; 15fps at 2048 x 1536; 30 fps at 1920 x 1080 (Full HD 1080p); 30 fps at 1280 x 720 (HD 720p); 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Automatic gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	Built-in Microphone
Audio-Out	3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server

• General

Power Source / Consumption	PoE Class 2 (IEEE802.3af) / 3.67 W
Weight	205 g (0.45 lb)
Dimensions (W x H x D)	96mm x 96mm x 45.07mm (3.8" x 3.8" x 1.8")
Bundled Accessories	Bracket
Mount Type	Wall, Ceiling
Operating Temperature	-10 °C ~ 45 °C (14 °F ~ 113 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

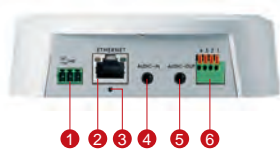
ACM-8511

IP D/N PoE PTZ Camera



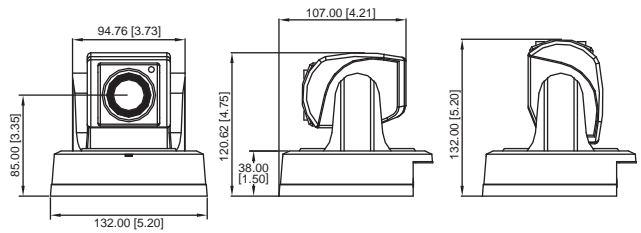
- 1/4" Interlaced Scan CCD
- Day and night function with Sense Up
- Minimum illumination 0.07 lux at F1.8
- 10 x optical zoom
- 25/30 fps at full D1 resolution
- Selectable MPEG-4 SP, MJPEG compressions
- Two-way audio
- Video motion detection
- Digital input and digital output
- Powered by PoE Class 3 / DC 12V
- ACM-8511N (NTSC) / ACM-8511P (PAL)

PHOTO INDICATION



- 1 DC 12V Power Input
- 2 Ethernet Port
- 3 Reset Button
- 4 Audio Input
- 5 Audio Output
- 6 Digital Input / Output

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Popular Mounting Solutions

Surface	Accessories not required
Wall	PMAX-0308 
Corner	PMAX-0101 PMAX-0303 PMAX-0402 
Flush	PMAX-1001 PMAX-1002 

Pendant	PMAX-0101 PMAX-0103 
Pole	PMAX-0101 PMAX-0303 PMAX-0502 

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

ACM-8511

• Device

Device Type	PTZ Camera
Image Sensor	Interlaced Scan CCD
Sensor Size	1/4" (3.2 x 2.4 mm)
Day / Night	Yes
Minimum Illumination	Color: 2.5 lux at F1.8 (50 IRE, 5600 °K); B/W: 0.07 lux at F1.8 (50 IRE, 5600 °K, Max. AGC, Max. Sense Up)
Color to B/W switch	DSP based switch, configurable
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
IR LED	No
Electronic Shutter	1/100 - 1/10,000 sec (NTSC); 1/100 - 1/10,000 sec (PAL) (manual mode) 1/60 - 1/120,000 sec (NTSC); 1/50 - 1/120,000 sec (PAL) (auto mode)

• Lens

Focal Length	Zoom, f4.2 - 42 mm / F1.8 - 2.9
Iris	Auto iris
Focus	Auto Focus
Horizontal Viewing Angle	48° - 5°

• PTZ

Zoom Ratio	10x optical; 10x digital
Manual Panning Speed	20° ~ 90°/s
Manual Tilting Speed	20° ~ 70°/s
Panning Range	0° ~ 354°
Tilting Range	-25° ~ 90°
Control	Remote manual control; 32 preset points; 10 preset tours; auto scan
Absolute Position	Yes

• Video

Compression	MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL); 30 fps at 640 x 480 (VGA, NTSC); 25 fps at 640 x 480 (VGA, PAL); 30 fps at 352 x 240 (CIF, NTSC); 25 fps at 352 x 288 (CIF, PAL); 30 fps at 160 x 112 (QCIF, NTSC); 25 fps at 176 x 144 (QCIF, PAL)
Multi-Streaming	Multiple streams based on single configuration
Bit Rate	28 Kbps - 3 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 44 dB
Image Enhancement	Backlight compensation; White balance: automatic, predefined and manual; Brightness; Saturation; Contrast; Automatic gain control; Auto exposure: automatic, predefined and manual
Privacy Mask	1 configurable region
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding
Audio-In	3.5 mm Phone Jack
Audio-Out	3.5 mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	1, TTL, terminal block
Digital Output	1, TTL, terminal block

• General

Power Source / Consumption	PoE Class 3 (IEEE802.3af) / 5.8 W; DC 12V / 4.8 W
Weight	550 g (1.21 lb)
Dimensions (Ø x H)	132 mm x 132 mm (5.20" x 5.20")
Mount Type	Surface, Flush, Wall, Pendant, Pole, Corner
Operating Temperature	0 °C ~ 45 °C (32 °F ~ 112 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

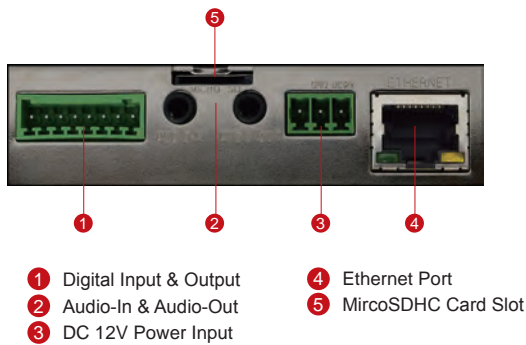
KCM-8111

2M Indoor PTZ with D/N,
Advanced WDR, SLLS, 18x Zoom lens

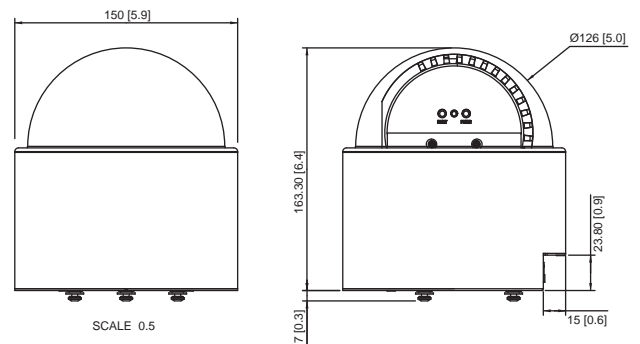


- Progressive Scan CMOS
- Day and night function with mechanical IR cut filter
- Superior low light sensitivity
- Minimum illumination 0.05 lux at F1.6
- 18x optical Zoom
- 15 fps at 1920 x 1080 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Two-way audio
- Digital input and digital output
- Advanced WDR
- 2D+3D digital noise reduction
- Video Motion Detection
- Powered by High PoE / DC 12V

PHOTO INDICATION



DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover

PDCX-1105		5.28-inch, smoke, non-vandal proof
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High PoE Injector

PPOE-0100		High PoE Injector, IEEE 802.3at Power over Ethernet 3 different connectors included
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Popular Mounting Solutions

Surface	Bundled surface mount	
Wall	PMAX-0311	
Pendant	PMAX-0110 PMAX-0103	
Flush	PMAX-1010	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

KCM-8111

• Device

Device Type	Indoor PTZ Camera
Image Sensor	Progressive Scan CMOS
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux at F1.6 (30 IRE, 2400 °K); B/W: 0.05 lux at F1.6
Color to B/W switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/25 - 1/2000 sec (50Hz); 1/15 - 1/2000 sec (60Hz) (manual mode); 1- 1/2000 sec (auto mode)

• Lens

Focal Length	Zoom, f4.7 - 84.6 mm / F1.6 - 2.8
Iris	DC Iris
Focus	Auto Focus
Horizontal Viewing Angle	48.94° ~ 3.61°

• PTZ

Zoom Ratio	18x optical
Zoom Speed	2 sec (1x ~ 18x)
Manual Panning Speed	0.5° ~ 90°/S
Manual Tilting Speed	0.5° ~ 90°/S
Preset Panning Speed	0.5° ~ 450°/S
Preset Tilting Speed	0.5° ~ 450°/S
Panning Range	350° (360° pan via Auto-flip)
Tilting Range	0°~180°
Control	Remote manual control; 64 preset point; 10 preset tours
Preset Panning Accuracy	0.265°
Preset Tilting Accuracy	0.265°
Absolute Position	Yes
Protocol	Sony VISCA, Pelco D

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution (H.264, MJPEG)	15 fps at 1920 x 1080 (Full HD 1080p) ; 30 fps at 1280 x 720 (HD 720p) ; 30 fps at 640 x 480 (VGA)
Maximum Frame Rate vs. Resolution (MPEG-4 SP)	10 fps at 1920 x 1080 (Full HD 1080p); 24 fps at 1280 x 720 (HD 720p) ; 30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Advanced WDR; White balance: automatic, hold and manual; Brightness; Saturation; Contrast; Sharpness; Automatic gain control; 2D+3D Digital Noise Reduction; Flickerless; Defogging
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Audio	2-way
Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	3.5mm Phone Jack
Audio-Out	3.5mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, Bonjour
Ethernet Port	1, Ethernet (10/100Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Digital Input	2, terminal block
Digital Output	2, terminal block
Local Storage	MicroSDHC memory card slot (card not included)

• General

Power Source / Consumption	High PoE (IEEE802.3at) / 19.2 W DC 12V / 15W
Weight	1500g
Dimensions (Φ x H)	126 mm x 163 mm (5" x 6.4")
Bundled Accessories	Power Adapter
Environmental Casing	Transparent dome cover
Mount Type	Surface, Flush, Pendant, Wall, Corner, Pole
Operating Temperature	-10 °C ~ 50 °C (-14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC Adapter: CE, FCC, UL, PSE, EFFICIENCY LEVEL V

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

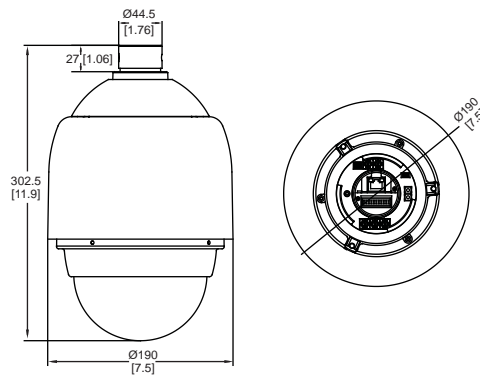
TCM-6630

36x Zoom H.264 IP D/N Outdoor Speed Dome



- 1/4" Interlaced Scan CCD
- Day and night function with mechanical IR cut filter
- Minimum illumination 0.01 lux at F1.6
- 36x optical zoom
- 25/30 fps at full D1 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Digital input and digital output
- Superior WDR
- 2D+3D Digital noise reduction
- Analog video output with 650 TVL
- Weatherproof IP66 rated casing
- TCM-6630N (NTSC)
- TCM-6630P (PAL)

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Dome Cover		
PDCX-1001		5.8-inch, transparent, vandal proof
PDCX-0001		5.8-inch, transparent, non-vandal proof
PDCX-0103		5.8-inch, smoke, non-vandal proof

Popular Mounting Solutions		
Wall	PMAX-0307	
Pendant	PMAX-0109	
Corner	PMAX-0306 PMAX-0402	
Pole	PMAX-0306 PMAX-0502	

* For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com

PRODUCT SPECIFICATION

TCM-6630

• Device

Device Type	Speed Dome Camera
Image Sensor	Interlaced Scan CCD
Sensor Size	1/4" (3.2 x 2.4 mm)
Horizontal Resolution	650 TVL
Day / Night	Yes
Minimum Illumination	Color: 0.1 lux; B/W: 0.01 lux
Color to B/W switch	DSP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700 - 1100 nm
IR LED	No
Electronic Shutter	1/1 - 1/10,000 sec (NTSC/PAL)

• Lens

Focal Length / Aperture	Zoom, f3.4 - 122.4 mm / F1.6 - 4.5
Iris	Auto iris
Focus	Auto focus
Horizontal Viewing Angle	57.8° - 1.7°

• PTZ

Zoom Ratio	36x optical; 12x digital
Zoom Speed	4 sec (1x to 36x) Manual
Manual Panning Speed	0.5° ~ 90° /s
Manual Tilting Speed	0.5° ~ 90° /s
Preset Panning Speed	5° ~ 400° /s
Preset Tilting Speed	5° ~ 400° /s
Panning Range	0° ~ 360° endless
Tilting Range	-10° ~ 190°
Control	Remote manual control; 256 preset points; 8 preset tours; auto scan
Preset Panning Accuracy	0.225°
Preset Tilting Accuracy	0.45°
Absolute Position	Yes
Protocol	DSCP, URL Command

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL) 30 fps at 352 x 240 (CIF, NTSC); 25 fps at 352 x 288 (CIF, PAL) 30 fps at 160 x 112 (QCIF, NTSC); 25 fps at 176 x 144 (QCIF, PAL)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
S/N Ratio	More than 50 dB
Image Enhancement	Superior WDR; Backlight compensation; White balance: automatic, predefined and manual; Brightness; Saturation; Contrast; 2D+3D Digital noise reduction
Privacy Mask	16 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding; G.711
Audio-In	3.5 mm Phone Jack
Audio-Out	3.5 mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Analog Video Output	1, CVBS, 1.0Vp-p with 75 Ω BNC connector
Digital Input	8, terminal block
Digital Output	1, terminal block

• General

Power Source / Consumption	AC 24V / 65 W (heater on)
Weight	5800 g (12.9 lb)
Dimensions (Ø x H)	172 mm x 302.5 mm (6.7" x 11.9"); 190 mm x 302.5 mm (7.5" x 11.9") with sunshield
Environmental Casing	Weatherproof (IP66 rated); Transparent dome cover
Mount Type	Pendant, Wall, Corner, Pole
Operating Temperature	-45 °C ~ 50 °C (-49 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	Camera: CE, FCC, IP66; Adapter: CE, TUV-GS, UL, RCM, CCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available; ONVIF Compliant
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

Video Encoders



Video Encoders				
	1 Channel			4 Channel
Model Name	TCD-2100	ACD-2100	TCD-2500	ACD-2000Q
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	> Quad mode / Sequential mode: 30 fps at 720 x 480 (D1 NTSC) 25 fps at 720 x 576 (D1 PAL) > Single mode: 7 fps at 720 x 480 (D1 NTSC) 7 fps at 720 x 576 (D1 PAL)*
Multi-Streaming	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration
Wide Dynamic Range	No	No	Yes	No
Audio	No	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Input	BNC x 1	BNC x 1	BNC x 1	BNC x 4
Analog Video Output	No	BNC x 1	BNC x 1	No
Digital Input/Output	1/1	2/2	2/1	2/2
Serial Port	RS-485/422/232	RS-485/422/232	RS-485/422/232	RS-485/422/232
Local Storage	No	No	2.5" HDD slot (Hard Disk not included)	No
Power Source	DC 12V	DC 12V	DC 12V	DC 12V
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)
Extended Temperature -30°C ~ 70°C (-22°F ~ 158°F)	No	Yes (ACD-2100T)	No	Yes (ACD-2000QT)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCD series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

Video Encoders/ Decoder



	Video Encoders	
	8 Channel	16 Channel
Model Name	ACD-2300	ACD-2400
Compression	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)
Multi-Streaming	Multiple streams based on single configuration (per channel)	Multiple streams based on single configuration (per channel)
Wide Dynamic Range	No	No
Audio	2-way (per channel)	2-way (per channel)
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Input	BNC x 8	BNC x 16
Analog Video Output	No	No
Digital Input/Output	2/2 (per channel)	2/2 (per channel)
Serial Port	RS-485/422/232 (per channel)	RS-485/422/232(per channel)
Local Storage	No	No
Power Source	AC 100 - 240V	AC 100 - 240V
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)
Extended Temperature -30°C ~ 70°C (-22°F ~ 158°F)	No	No
Approvals	CE, FCC	CE, FCC

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCD series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

	Video Decoder
	1 Channel
Model Name	ACD-3100
Decompression	MPEG-4 SP, MPEG-4 ASP
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)
Audio	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Output	BNC x 1; S-Video x 1
Digital Input/Output	2/2
Serial Port	RS-485/422/232
Power Source	DC 12V
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Approvals	CE, FCC

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

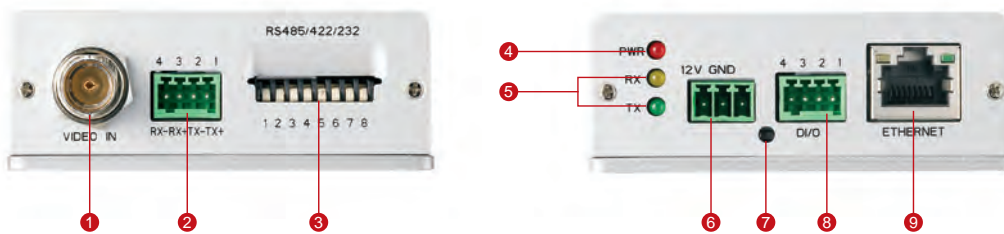
TCD-2100

1-channel H.264 Video Encoder



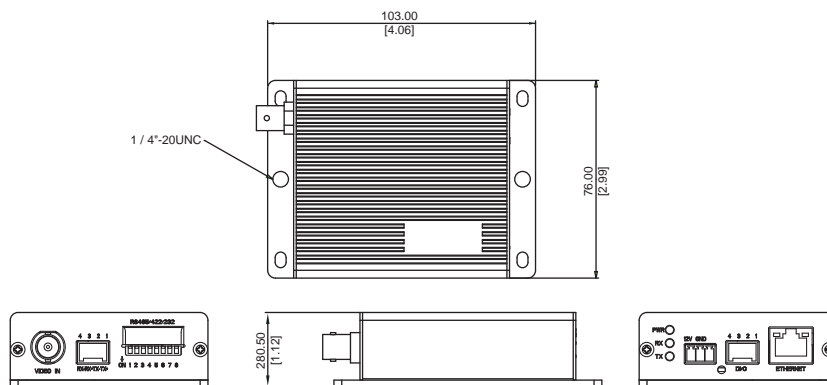
- 25/30 fps at full D1 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Video motion detection
- Digital input and digital output
- Serial ports for PTZ control

PHOTO INDICATION



- | | | |
|-----------------------|---------------------|--------------------------|
| ① Analog Video Input | ④ Power LED | ⑦ Reset Button |
| ② Serial Port Input | ⑤ Serial Port LED | ⑧ Digital Input / Output |
| ③ Serial Port Setting | ⑥ DC12V Power Input | ⑨ Ethernet Port |

DIMENSION DIAGRAM



Unit: mm [inch]

PRODUCT SPECIFICATION

TCD-2100

• Device

Device Type	Video Encoder
Number of Channels	1

• PTZ

Protocol	Pelco-D, Pelco-P V1 and V2, Dynacolor, Sony VISCA, American Dynamics
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• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL) 30 fps at 352 x 240 (CIF, NTSC); 25 fps at 352 x 288 (CIF, PAL) 30 fps at 160 x 112 (QCIF, NTSC); 25 fps at 176 x 144 (QCIF, PAL)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Brightness; Saturation; Contrast
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Analog Video Input	1, CVBS, 1.0Vp-p with 75Ω BNC connector
Digital Input	1, terminal block
Digital Output	1, terminal block
Serial Port	RS-485, RS-422, RS-232, terminal block

• General

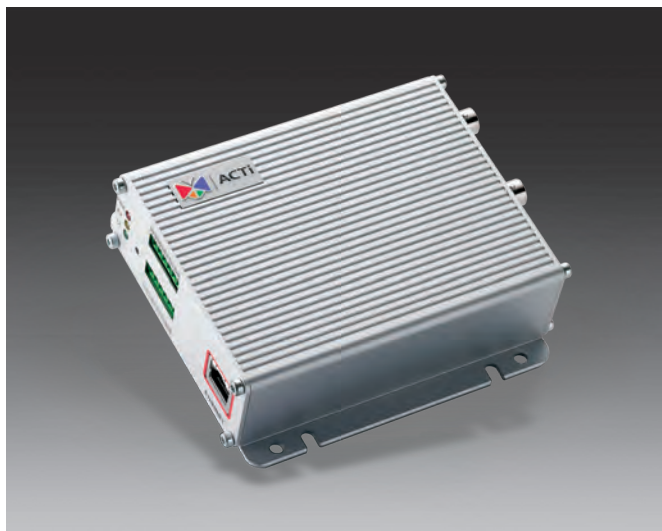
Power Source / Consumption	DC 12V ± 10% / 3.6 W
Weight	195 g (0.43 lb)
Dimensions (W x H x D)	103 mm x 28.5 mm x 76 mm (4.06" x 1.12" x 2.99")
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	Video Encoder: CE, FCC; Adapter: CE, TUV-GS, UL, RCM, CCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

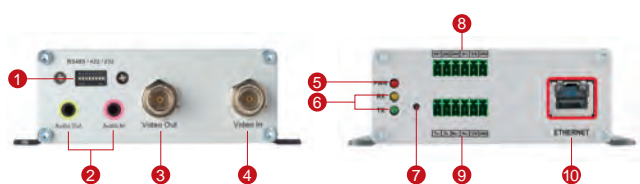
ACD-2100

1-channel MPEG-4 Video Encoder



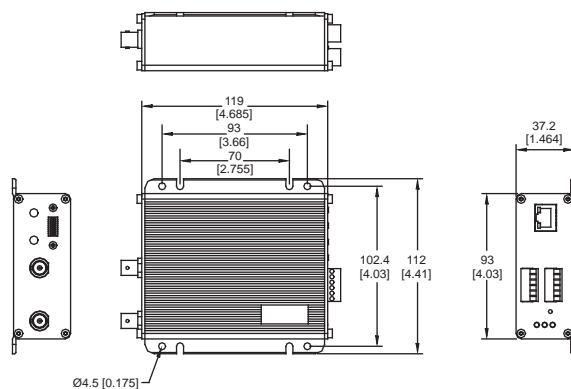
- 25/30 fps at full D1 resolution
- Selectable MPEG-4 SP, MJPEG compressions
- Two-way audio
- Video motion detection
- Digital input and digital output
- Serial ports for PTZ control
- Analog video output

PHOTO INDICATION



- | | | |
|------------------------|-------------------|--|
| 1 Serial Port Setting | 5 Power LED | 8 Digital Input / Output |
| 2 Audio Input / Output | 6 Serial Port LED | 9 Serial Port Input & DC 12V Power Input |
| 3 Analog Video Output | 7 Reset Button | 10 Ethernet Port |
| 4 Analog Video Input | | |



DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Rackmount Kit

<p>RMK-2000</p> 	<p>19-inch (4U) rackmount kit with 8 built-in cooling fans, powered by 100-240V AC adapter. Supports up to 8 devices. *Front-Bezel (R306-00004-000) option to cover the slot of video encoder *Front-Bezel (R306-00007-000) option to cover the blank slot</p>
<p>RMK-3000</p> 	<p>19-inch (4U) rackmount kit. Supports up to 8 devices. *Front-Bezel (R306-00014-000) option to cover the slot of video encoder *Front-Bezel (R306-00009-000) option to cover the blank slot</p>

PRODUCT SPECIFICATION

ACD-2100

• Device

Device Type	Video Encoder
Number of Channels	1

• PTZ

Protocol	Pelco-D, Pelco-P V1 and V2, Dynacolor, Sony VISCA, American Dynamics
----------	--

• Video

Compression	MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL) 30 fps at 640 x 480 (VGA, NTSC); 25 fps at 640 x 480 (VGA, PAL) 30 fps at 352 x 240 (CIF, NTSC); 25 fps at 352 x 288 (CIF, PAL) 30 fps at 160 x 112 (QCIF, NTSC); 25 fps at 176 x 144 (QCIF, PAL)
Multi-Streaming	Multiple streams based on single configuration
Bit Rate	28 Kbps - 3 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Brightness; Saturation; Contrast
Privacy Mask	1 configurable region
Text Overlay	User defined text on video

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding
Audio-In	3.5 mm Phone Jack
Audio-Out	3.5 mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Analog Video Input	1, CVBS, 1.0Vp-p with 75Ω BNC connector
Analog Video Output	1, CVBS, 1.0Vp-p with 75Ω BNC connector
Digital Input	2, terminal block
Digital Output	2, terminal block
Serial Port	RS-485, RS-422, RS-232, terminal block

• General

Power Source / Consumption	DC 12V ±10% / 3.8 W
Weight	350 g (0.77 lb)
Dimensions (W x H x D)	112 mm x 37.2 mm x 119 mm (4.41" x 1.46" x 4.68")
Operating Temperature	ACD-2100: 0 °C ~ 50 °C (32 °F ~ 122 °F); ACD-2100T: -30 °C ~ 70 °C (-22 °F ~ 158 °F)
Operating Humidity	10% ~ 85% RH
Approvals	Video Encoder: CE, FCC; Adapter: CE, TUV-GS, UL, RCM, CCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

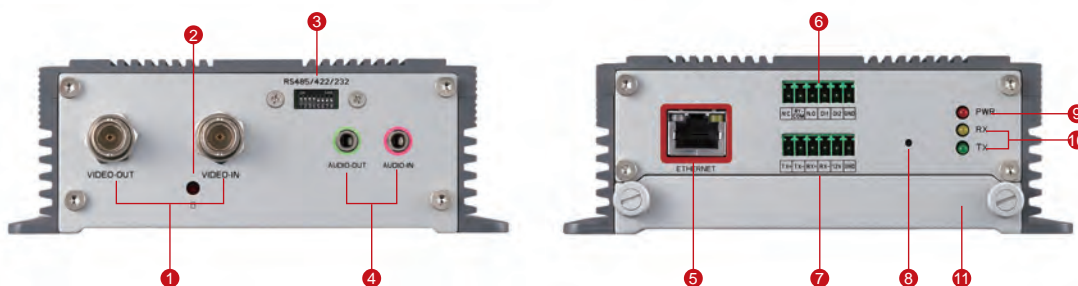
TCD-2500

1-channel H.264
Video Encoder with WDR



- 25/30 fps at full D1 resolution
- Selectable H.264, MPEG-4 SP, MJPEG compressions with dual streaming
- Two-way audio
- Video motion detection
- Digital input and digital output
- 2.5" HDD slot for local storage
- 3D deinterlacing
- Serial ports for PTZ control
- Analog video output
- Wide dynamic range

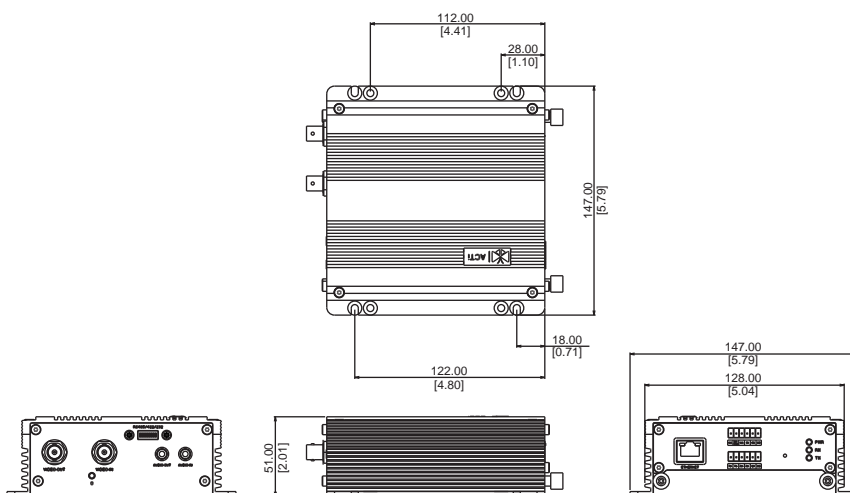
PHOTO INDICATION



- ① Analog Video Input / Output
- ② HDD LED
- ③ Serial Porting Setting
- ④ Audio Input / Output

- ⑤ Ethernet Port
- ⑥ Digital Input / Output
- ⑦ Serial Port & DC 12V Power Input
- ⑧ Reset Button
- ⑨ Power LED
- ⑩ Serial Port LED
- ⑪ HDD Tray

DIMENSION DIAGRAM



Unit: mm [inch]

PRODUCT SPECIFICATION

TCD-2500

• Device

Device Type	Video Encoder
Number of Channels	1

• PTZ

Protocol	Pelco-D, Pelco-P V1 and V2, Dynacolor, Sony VISCA, American Dynamics
----------	--

• Video

Compression	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL) 30 fps at 352 x 240 (CIF, NTSC); 25 fps at 352 x 288 (CIF, PAL) 30 fps at 160 x 112 (QCIF, NTSC); 25 fps at 176 x 144 (QCIF, PAL)
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Wide dynamic range; Brightness; Saturation; Contrast; Sharpness; Digital noise reduction; Black level extension; 3D deinterlacing; Skin tone enhancement
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding
Audio-In	3.5 mm Phone Jack
Audio-Out	3.5 mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Save video or snapshot to local storage; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Analog Video Input	1, CVBS, 1.0Vp-p with 75Ω BNC connector
Analog Video Output	1, CVBS, 1.0Vp-p with 75Ω BNC connector
Digital Input	2, terminal block
Digital Output	1, terminal block
Serial Port	RS-485, RS-422, RS-232, terminal block
Local Storage*	2.5" HDD slot (Hard Disk not included)

• General

Power Source / Consumption	DC 12V ±10% / 4.7 W
Weight	870 g (1.92 lb)
Dimensions (W x H x D)	147 mm x 51 mm x 139.5 mm (5.79" x 2.01" x 5.49")
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	Video Encoder: CE, FCC; Adapter: CE, TUV-GS, UL, RCM, CCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

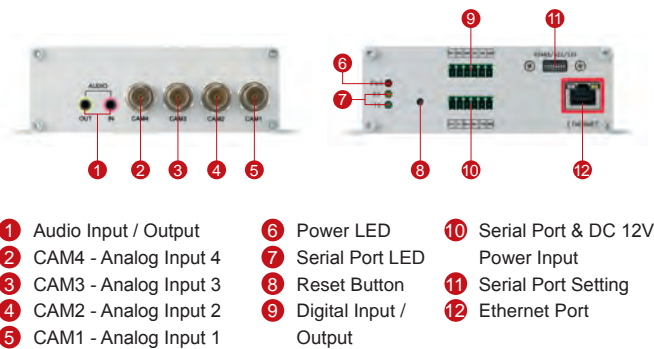
ACD-2000Q

4-channel MPEG-4 Quad Video Encoder



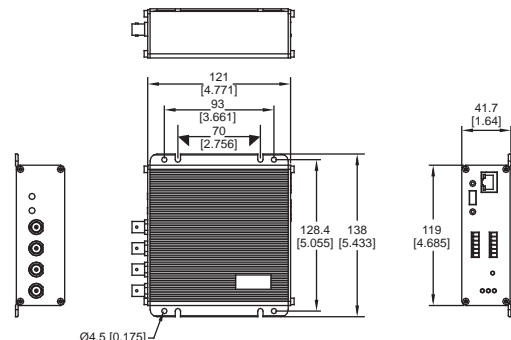
- 25/30 fps at full D1 resolution
- Selectable MPEG-4 SP, MJPEG compressions
- Full-screen or quad image display
- Two-way audio
- Video motion detection (per channel)
- Digital input and digital output
- Serial ports for PTZ control

PHOTO INDICATION



- 1 Audio Input / Output
- 2 CAM4 - Analog Input 4
- 3 CAM3 - Analog Input 3
- 4 CAM2 - Analog Input 2
- 5 CAM1 - Analog Input 1
- 6 Power LED
- 7 Serial Port LED
- 8 Reset Button
- 9 Digital Input / Output
- 10 Serial Port & DC 12V Power Input
- 11 Serial Port Setting
- 12 Ethernet Port



DIMENSION DIAGRAM







Unit: mm [inch]

ACCESSORY OPTIONS

Rackmount Kit

RMK-2000		19-inch (4U) rackmount kit with 8 built-in cooling fans, powered by 100-240V AC adapter. Supports up to 8 devices. <ul style="list-style-type: none"> • Front-Bezel (R306-00004-000) option to cover the slot of video encoder • Front-Bezel (R306-00007-000) option to cover the blank slot
RMK-3000		19-inch (4U) rackmount kit. Supports up to 8 devices. <ul style="list-style-type: none"> • Front-Bezel (R306-00014-000) option to cover the slot of video encoder • Front-Bezel (R306-00009-000) option to cover the blank slot

DISPLAY MODES

Display Mode	Content	Frame Rate	Resolution	Video Stream
Quad		30/25 FPS (NTSC/PAL)	D1 only	1 stream, quad view
Sequential		30/25 FPS (NTSC/PAL)	D1 only	1 stream at a time
Single		7 FPS	D1	4 independent streams
		15/12 FPS (NTSC/PAL)	CIF	4 independent streams

PRODUCT SPECIFICATION

ACD-2000Q

• Device

Device Type	Video Encoder
Number of Channels	4

• PTZ

Protocol	Pelco-D, Pelco-P V1 and V2, Dynacolor, Sony VISCA, American Dynamics
----------	--

• Video

Compression	MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	Quad mode/ Sequential mode: 30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL) Single mode: 7 fps at 720 x 480 (Full D1, NTSC/PAL) 15 fps at 352 x 240 (CIF, NTSC); 12 fps at 352 x 288 (CIF, PAL)
Multi-Streaming	Multiple streams based on single configuration
Bit Rate	28 Kbps - 3 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Brightness; Saturation; Contrast
Text Overlay	Camera name and video loss alert

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding
Audio-In	3.5 mm Phone Jack
Audio-Out	3.5 mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; Password protected user levels

• Alarm

Alarm Trigger	Video motion detection (1 region per channel); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Analog Video Input	4, CVBS, 1.0Vp-p with 75Ω BNC connector
Digital Input	2, terminal block
Digital Output	2, terminal block
Serial Port	RS-485, RS-422, RS-232, terminal block

• General

Power Source / Consumption	DC 12V ±10% / 5.0 W
Weight	430 g (0.95 lb)
Dimensions (W x H x D)	119 mm x 41.7 mm x 122 mm (4.69" x 1.65" x 4.81")
Operating Temperature	ACD-2000Q: 0 °C ~ 50 °C (32 °F ~ 122 °F) ACD-2000QT: -30 °C ~ 70 °C (-22 °F ~ 158 °F)
Operating Humidity	10% ~ 85% RH
Approvals	Video Encoder: CE, FCC; Adapter: CE, TUV-GS, UL, RCM, CCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

ACD-2300

8-channel MPEG-4 1U
Video Encoder



- 25/30 fps at full D1 resolution (per channel)
- Selectable MPEG-4 SP, MJPEG compressions
- Two-way audio (per channel)
- Video motion detection (per channel)
- Digital input and digital output (per channel)
- Serial ports for PTZ control (per channel)
- Rack-mountable (1U)

PHOTO INDICATION

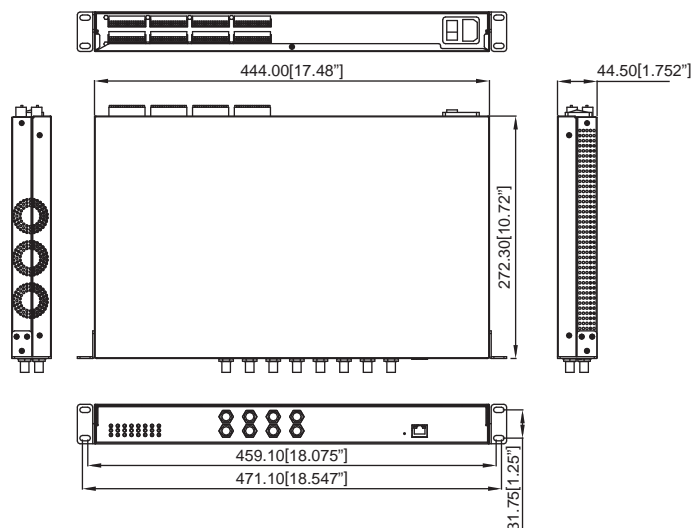


- | | |
|----------------------|------------------|
| ① Power LED | ⑤ Channel Number |
| ② LAN LED | ⑥ Reset Button |
| ③ RS-485 LED | ⑦ Ethernet Port |
| ④ Analog Video Input | |



- | | |
|------------------|--|
| ⑧ AC Power Input | ⑩ Audio Input / Output &
Digital Input / Output & Serial Port |
| ⑨ Power Switch | |

DIMENSION DIAGRAM



Unit: mm [inch]

PRODUCT SPECIFICATION

ACD-2300

• Device

Device Type	Video Encoder
Number of Channels	8

• PTZ

Protocol	Pelco-D, Pelco-P V1 and V2, Dynacolor, Sony VISCA, American Dynamics
----------	--

• Video

Compression	MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL) 30 fps at 640 x 480 (VGA, NTSC); 25 fps at 640 x 480 (VGA, PAL) 30 fps at 352 x 240 (CIF, NTSC); 25 fps at 352 x 288 (CIF, PAL) 30 fps at 160 x 112 (QCIF, NTSC); 25 fps at 176 x 144 (QCIF, PAL)
Multi-Streaming	Multiple streams based on single configuration (per channel)
Bit Rate	28 Kbps - 3 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Brightness; Saturation; Contrast
Privacy Mask	1 configurable region (per channel)
Text Overlay	User defined text on video

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding
Audio-In	Terminal block (per channel)
Audio-Out	Terminal block (per channel)

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions per channel); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Analog Video Input	8, CVBS, 1.0Vp-p with 75Ω BNC connector
Digital Input	2, terminal block (per channel)
Digital Output	2, terminal block (per channel)
Serial Port	RS-485, RS-422, RS-232, terminal block (per channel)

• General

Power Source / Consumption	AC 100 - 240V 50/60 Hz / 50 W
Weight	3.9 kg (8.60 lb)
Dimensions (W x H x D)	444 mm x 44.5 mm x 272 mm (17.48" x 1.75" x 10.72") Rack-mountable (1U)
Operating Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

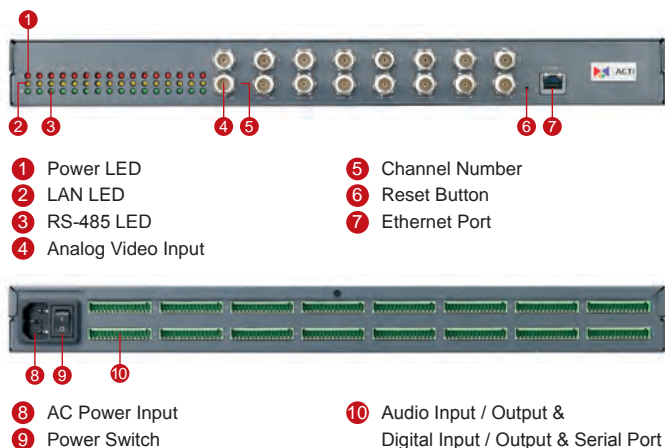
ACD-2400

16-channel MPEG-4 1U
Video Encoder

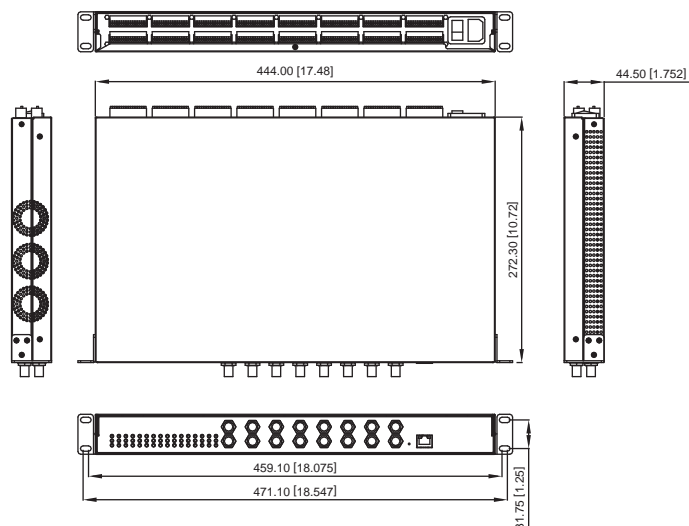


- 25/30 fps at full D1 resolution (per channel)
- Selectable MPEG-4 SP, MJPEG compressions
- Two-way audio (per channel)
- Video motion detection (per channel)
- Digital input and digital output (per channel)
- Serial ports for PTZ control (per channel)
- Rack-mountable (1U)

PHOTO INDICATION



DIMENSION DIAGRAM



Unit: mm [inch]

PRODUCT SPECIFICATION

ACD-2400

• Device

Device Type	Video Encoder
Number of Channels	16

• PTZ

Protocol	Pelco-D, Pelco-P V1 and V2, Dynacolor, Sony VISCA, American Dynamics
----------	--

• Video

Compression	MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL) 30 fps at 640 x 480 (VGA, NTSC); 25 fps at 640 x 480 (VGA, PAL) 30 fps at 352 x 240 (CIF, NTSC); 25 fps at 352 x 288 (CIF, PAL) 30 fps at 160 x 112 (QCIF, NTSC); 25 fps at 176 x 144 (QCIF, PAL)
Multi-Streaming	Multiple streams based on single configuration (per channel)
Bit Rate	28 Kbps - 3 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Brightness; Saturation; Contrast
Privacy Mask	1 configurable region (per channel)
Text Overlay	User defined text on video

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding
Audio-In	Terminal block (per channel)
Audio-Out	Terminal block (per channel)

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels; IEEE 802.1X network access control

• Alarm

Alarm Trigger	Video motion detection (3 regions per channel); External device through digital input
Alarm Response	Notify control center; Go to PTZ preset point or preset tour; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server; Activate external device through digital output

• Interface

Analog Video Input	16, CVBS, 1.0Vp-p with 75Ω BNC connector
Digital Input	2, terminal block (per channel)
Digital Output	2, terminal block (per channel)
Serial Port	RS-485, RS-422, RS-232, terminal block (per channel)

• General

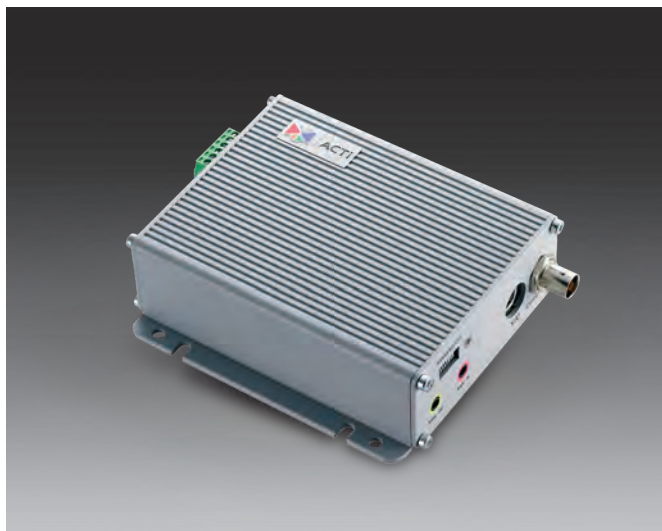
Power Source / Consumption	AC 100 - 240V (50/60 Hz) / 87 W
Weight	4.3 kg (9.47 lb)
Dimensions (W x H x D)	444 mm x 44.5 mm x 272 mm (17.48" x 1.75" x 10.72") Rack-mountable (1U)
Operating Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)
Operating Humidity	10% ~ 85% RH
Approvals	CE, FCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

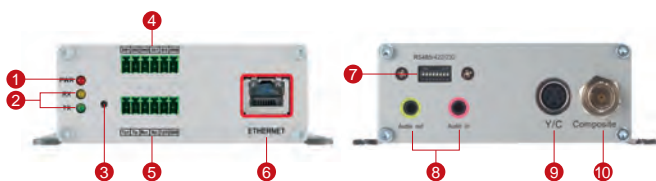
ACD-3100

1-channel MPEG-4 Video Decoder



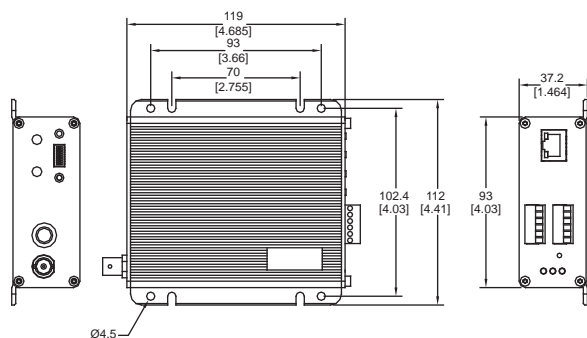
- 25/30 fps at full D1 resolution
- MPEG-4 SP, ASP decompression
- Two-way audio
- Video motion detection
- Digital input and digital output
- Serial ports for PTZ control panel

PHOTO INDICATION



- | | | |
|--------------------------|------------------------------------|------------------------------------|
| 1 Power LED | 5 Serial Port & DC 12V Power Input | 7 Serial Port Setting |
| 2 Serial Port LED | 6 Ethernet Port | 8 Audio Input / Output |
| 3 Reset Button | | 9 Analog Video Output (Y/C) |
| 4 Digital Input / Output | | 10 Analog Video Output (Composite) |

DIMENSION DIAGRAM



Unit: mm [inch]

ACCESSORY OPTIONS

Rackmount Kit

RMK-2000



19-inch (4U) rackmount kit with 8 built-in cooling fans, powered by 100-240V AC adapter. Supports up to 8 devices.

- Front-Bezel (R306-00004-000) option to cover the slot of video encoder
- Front-Bezel (R306-00007-000) option to cover the blank slot

RMK-3000



19-inch (4U) rackmount kit. Supports up to 8 devices.

- Front-Bezel (R306-00014-000) option to cover the slot of video encoder
- Front-Bezel (R306-00009-000) option to cover the blank slot

PRODUCT SPECIFICATION

ACD-3100

• Device

Device Type	Video Decoder
Number of Channels	1

• Video

Decompression	MPEG-4 SP, MPEG-4 ASP
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (Full D1, NTSC); 25 fps at 720 x 576 (Full D1, PAL)

• Audio

Compression	8 kHz, Mono, PCM, 16 bit encoding
Audio-In	3.5 mm Phone Jack
Audio-Out	3.5 mm Phone Jack

• Network

Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption; Password protected user levels

• Interface

Analog Video Output	2, CVBS, 1.0Vp-p with 75 Ω loading BNC connector; Y/C, 0.286Vp-p with 75 Ω loading S-video connector
Serial Port	RS-485, RS-422, RS-232, terminal block

• General

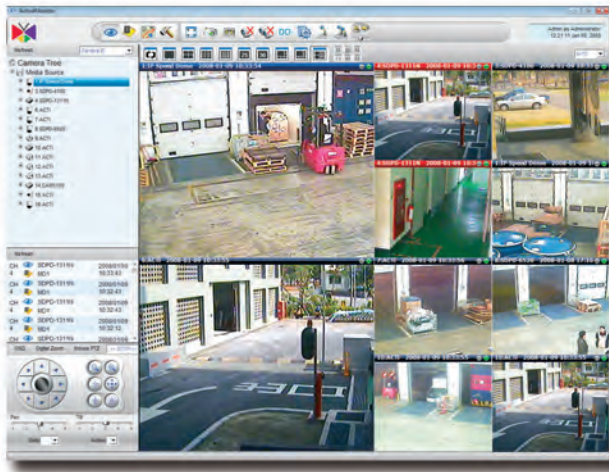
Power Source / Consumption	DC 12V ±10% / 3.8 W
Weight	350 g (0.77 lb)
Dimensions (W x H x D)	112 mm x 37.2 mm x 119 mm (4.41" x 1.46" x 4.68")
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Operating Humidity	10% ~ 85% RH
Approvals	Video Decoder: CE, FCC; Adapter: CE, TUV-GS, UL, RCM, CCC

• Integration

Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available
Firmware Access Browser	Microsoft Internet Explorer 6.0 or newer

ACTi NVR v2.3

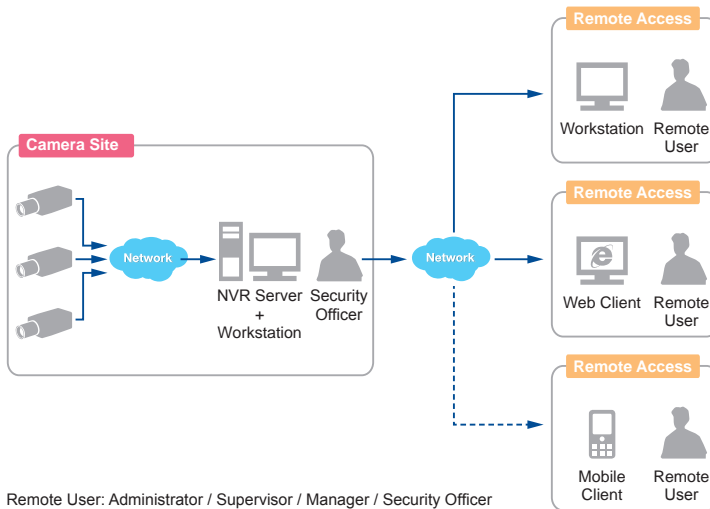
ACTi Network Video Recorder



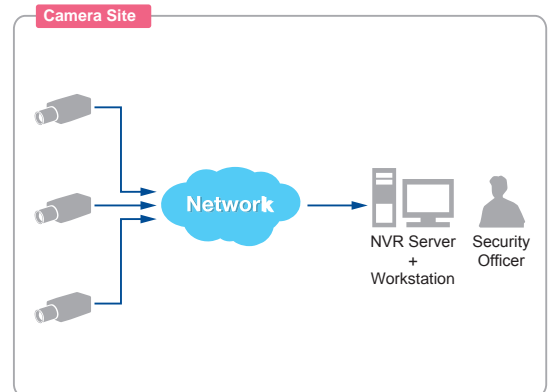
- Manage up to 64 IP cameras or video encoders
- Support H.264/MPEG-4/MJPEG formats up to 4-Megapixel resolution
- Live view with 1, 4, 6, 8, 9, 10, 16, 25, 36, 49, 64 window layouts
- PTZ and speed control, preset points and tours, mouse PTZ
- E-maps with camera icons and mini live views
- KCM/TCM/TCD device dual stream management
- Scheduled, event triggered and manual recording
- Time and event based search
- Full screen playback with AVI video export function
- 4-channel synchronized playback
- Event management with motion detection and DI/DO
- Two-way audio, multi-channel audio broadcast
- Unlimited number of remote clients using web browser, mobile device or PC installable program (Enterprise edition)
- HTTPs protocol between server and client

SOLUTION ARCHITECTURE

NVR Enterprise



NVR Professional



BUNDLED UTILITIES

	IP Utility	Search, list and manage devices within local area network, upgrade firmware, backup/restore configuration
	Archive Player	Forward and backward playback of RAW files with 1x-8x speeds together with manual snapshot function
	Media Converter	Convert one or many RAW video clips into a sequence of JPEG snapshots or into AVI video clips and save locally
	Backup Wizard	Backup and restore configuration of ACTi NVR and CMS
	Streaming Explorer	Test device connections, PTZ and event functions via web browser

ACTi NVR v2.3

PRODUCT SPECIFICATION

	NVR 2.3 Enterprise	NVR 2.3 Professional
• General		
Full Name	ACTi Network Video Recorder v2.3 Enterprise	ACTi Network Video Recorder v2.3 Professional
Maximum Number of Clients	Unlimited	1 (local)
Maximum Number of Cameras	64	64
Free License	16 channels	64 channels
Compression	H.264, MPEG-4, MJPEG	
• Live View		
Display Layout Mode	1, 4, 6, 8, 9, 10, 16, 25, 36, 49, 64	
Layout Manager	An interface to define display layouts and the pre-set cameras within layouts; full-screen mode available	
Layout Tour	Automatic switch between different display layouts	
Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons	
Camera Tree	Drag and drop video source from camera tree into display layout	
Manual Recording / Snapshot	Instant recording upon mouse click / Instant snapshot upon mouse click or hot key	
Event Panel	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
Two-way Audio	Audio sound from and to all the audio supported devices; audio broadcast to multiple devices at the same time	
Dual Stream Management	Live view of stream 1 or stream 2 of dual stream devices	
• E-map		
Layout	Area maps with camera icons, small live view windows; hyperlinked	
Map Switch and Tour	Manual switch and auto tour modes selectable	
Setup	E-map image upload; camera positioning; map linking	
PTZ Mode	Mouse PTZ mode to control E-map video streams	
• PTZ		
Control	Pan, tilt and zoom controls; speed control; both buttons and overlay controls	
Preset Points and Tours	Create preset points; create auto tours between preset points	
Number of Preset Points	32	
Joystick	USB based joystick supported	
Absolute Position	Supports absolute position function of PTZ and Speed Dome cameras for convenient navigation	
Default Protocol	Pelco-P, Pelco-D, Lilin, Dynacolor, Samsung, Kampro, Sony Visca, Panasonic	
User Defined Protocol	User defined PTZ or Housing commands	
• Recording		
Scheduled Recording	Record video with user defined schedule	
Event Recording	Record video when the alarm event is triggered, including the pre-event buffered video clip	
Manual Recording	Instant recording upon mouse click	
Dual Stream Management	Recording of stream 1 or stream 2 of dual stream devices	
• Search & Playback		
Time Based Video Search	Search video recordings by time or channel	
Event Based Video Search	Search alarm triggered video recordings	
Event Based Snapshot Search	Event triggered snapshots listed as clickable thumbnails for full-size view and export	
Activity and Status Log Search	Search for log of video loss/recovery, network disconnect/reconnect, alarm events, user activity; XLS export of all logs	
Playback Control	Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop	
Synchronized Playback	4 channels	
Manual Snapshot	Instant snapshot from playback upon mouse click	
Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons	
Video Cropping	Crop a short video clip from long recording file and save it as an independent file	
Video Export	Export video clips in AVI format	
• Event Management		
Event Trigger	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 with live video; Switch to hotspot window; Play alert audio file or beep; Activate external device through digital output; Upload snapshot to FTP server; Execute system command to activate other programs; E-mail notification with snapshots; Event logging	
Manual Event	Manually activate external devices through digital output via live view monitor	
• System		
Permission Control	Unlimited number of users, multi-level permission, camera group permission, e-Map permission for different users	
Security	HTTPS protocol between NVR server and client program	
Language	Multi-language support	
• Remote Access		
PC Client Program	User interface program (Workstation) with live view, PTZ, playback, e-map, event management, setup	N/A
PC Web Browser	Microsoft Internet Explorer 8.0 or 9.0 with live view, PTZ, playback, e-map, event management, setup	N/A
Mobile Client Program	Mobile device application (MobileGo) supports live view, PTZ control, event or time based search and playback Supported devices: iPhone, iPad, iPod	N/A
• System Requirements*		
Server PC with Local Client	1-16 channels: Intel Core 2 Duo 2.66 GHz 32-bit, 4GB RAM 17-64 channels: Intel Core i7-920 2.67 GHz 64-bit, 6GB RAM	
Server PC without Local Client	1-64 channels: Intel Core 2 Duo 2.4 GHz 32-bit, 4GB RAM	N/A
Remote Client PC	1-16 channels: Intel Core 2 Duo 2.66 GHz 32-bit, 4GB RAM 17-64 channels: Intel Core i7-920 2.67 GHz 64-bit, 6GB RAM	N/A
Operating System	32/64 bit: Windows 7 (Professional), Windows Server 2008 (Enterprise, Standard), Windows Vista (Business, Enterprise, Ultimate), Windows Server 2003 SP2, Windows XP Professional SP3	
Browser	Microsoft Internet Explorer 8.0 or 9.0	
Web Server	Microsoft IIS Server	
• Integration		
Unified Solution	Fully compatible with ACTi cameras, encoders and CMS v1.1	Fully compatible with ACTi cameras and encoders
ISV CMS Integration	Software Development Kit (SDK) available	N/A

* These specifications are based on following camera settings:

Single stream mode: 1280x1024, 3Mbps, 18fps, MPEG-4

Dual stream mode: 1280x1024, 3Mbps, 18fps, H.264 (recording) and 640x480, Quality:100, 18fps, MJPEG (live view)

For more details about system requirements, please refer to Project Planner on www.acti.com

ACTi NVR v3.0

ACTi Network Video Recorder



- Manage up to 64 IP cameras or video encoders
- Support H.264/MPEG-4/MJPEG formats up to 4-Megapixel resolution
- Live view layouts for 4:3 monitor and 16:9 wide screen monitor
- Instant playback in live view window
- PTZ and speed control, preset points and tours, mouse PTZ
- E-maps with camera icons and mini live view
- KCM/TCM/TCD device dual stream management
- Scheduled, event triggered and manual recording
- Time and event based search
- 64-channel synchronized playback
- Event management with motion detection and DI/DO
- Two-way audio, multi-channel audio broadcast
- Customizable user interface
- Unlimited number of remote clients using web browser, mobile device or PC installation program

SPECIAL FEATURES

Up to 64 channels synchronized playback

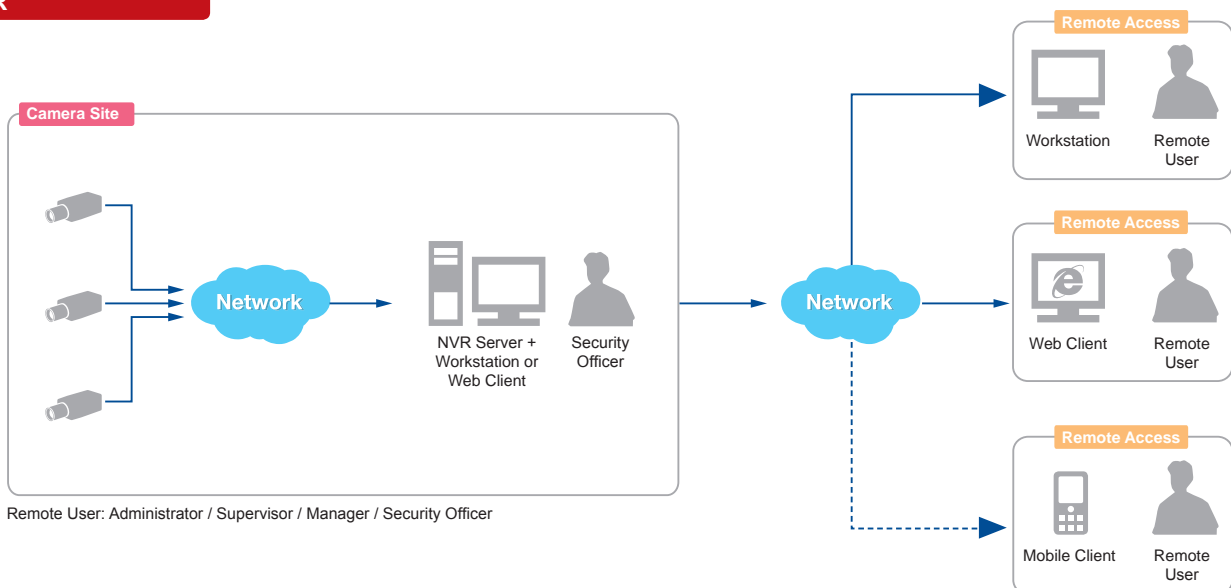


Instant playback in live view window



SOLUTION ARCHITECTURE

NVR



PRODUCT SPECIFICATION

NVR 3.0

• General	
Full Name	ACTi Network Video Recorder v3.0
Maximum Number of Clients	Unlimited
Maximum Number of Cameras	64
Free License	16 channels
Compression	H.264, MPEG-4, MJPEG
• Live View	
Display Layout Mode	4:3 monitor: 1, 4, 5, 6, 8, 9, 10, 16, 25, 36, 49, 64 16:9 wide screen monitor: 1, 4, 6, 9, 12, 18, 24, 35, 48, 64
View Manager	An interface to define display layouts and the pre-set cameras within layout in the public or private view
View Patrol	Automatic switch between different views or devices
View Panel	Contains the list of pre-defined views for quick launch
Digital Zoom	Zoom in/out digitally by PiP (Picture-in-Picture)
Camera Tree	Drag and drop video source from camera tree into display layout; display camera status on the tree
Manual Recording / Snapshot	Instant recording upon mouse click / Instant snapshot upon mouse click or hot key
Event Panel	Display event status upon alarm or upon connection loss or recovery
Two-way Audio	Audio sound from and to all the audio supported devices; audio broadcast to multiple devices at the same time
Dual Stream Management	Live view of stream 1 or stream 2 of dual stream devices
Instant Playback	Instant playback in live view window
• E-map	
Layout	Area maps with camera icons, small live view windows; hyperlinked
Map Switch and Tour	Manual switch and auto tour modes selectable
Setup	E-map image upload; camera positioning; map linking
PTZ Mode	Mouse PTZ mode to control E-map video streams
• PTZ	
Control	Pan, tilt and zoom controls; speed control; both buttons and mouse controls
Preset Points and Tours	Create preset points; create auto tours between preset points
Number of Preset Points	32
Joystick	USB based joystick supported
Default Protocol	Auto-detect camera's PTZ protocol. Available protocols: ACTi, Pelco-P, Pelco-D, Dynacolor, Visca
• Recording	
Scheduled Recording	Record video with user defined schedule
Event Recording	Record video when the alarm event is triggered, including the pre-event buffered video clip
Speed Up	Different recording frame rate settings for non-event and triggered event
Manual Recording	Instant recording upon mouse click
Dual Stream Management	Recording of stream 1 or stream 2 of dual stream devices
• Search & Playback	
Time Based Video Search	Search video recordings by time or channel
Event Based Video Search	Search alarm triggered video recordings
Playback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop
Synchronized Playback	Up to 64 channels
Manual Snapshot	Instant snapshot from playback upon mouse click
Digital Zoom	Zoom in/out digitally by PiP (Picture-in-Picture)
Video Cropping	Crop a short video clip from long recording file and save it as an independent file
Video Export	Export video clips in AVI or RAW format; text overlay supported
• Event Management	
Event Trigger	Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery; Server loss and recovery; Disk full; Disk not found
Event Response	Record video; Pop-up window with live video; Switch to hotspot window; Play beep sound; Activate external device through digital output; Upload snapshot to FTP server; Execute system command to activate other programs; E-mail notification with snapshots; Command a PTZ device to go to a preset point
Manual Event Scheduler	Manually activate external devices through digital output via live view monitor Define the schedule of event manager
• System	
Permission Control	Unlimited number of users, multi-level permission, Active Directory
Language	Multi-language support
Language Import/Export	Possibility to import or export language packs for convenient local language management
Customizable User Interface	Define the layout of user interface for live view and playback
Quick Setup	Configure basic settings of NVR
• Remote Access	
PC Client Program	User interface program (Workstation) with live view, PTZ, playback, e-map, event management, setup
PC Web Browser	Microsoft Internet Explorer 8.0 or 9.0 with live view, PTZ, playback, event management, setup
Mobile Client Program	Mobile device application (MobileGo) supports live view, PTZ control, event or time based search and playback Supported devices: iPhone, iPad, iPod Touch
• System Requirements*	
Server PC with Local Client	1-16 channels: Intel Core 2 Quad 2.4GHz, 4GB RAM 17-64 channels: Intel Core i7-920 2.67 GHz, 4GB RAM
Server PC without Local Client	1-64 channels: Intel Core 2 Quad 2.4GHz, 4GB RAM
Remote Client PC	1-16 channels: Intel Core 2 Quad 2.4GHz, 4GB RAM 17-64 channels: Intel Core i7-920 2.67 GHz, 4GB RAM
Operating System	32/64 bit with latest service packs: Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP
Browser	Microsoft Internet Explorer 8.0 or 9.0
• Integration	
Unified Solution	Fully compatible with ACTi cameras, encoders and CMS 2.0
ISV CMS Integration	Software Development Kit (SDK) available

* These specifications are based on following camera settings:

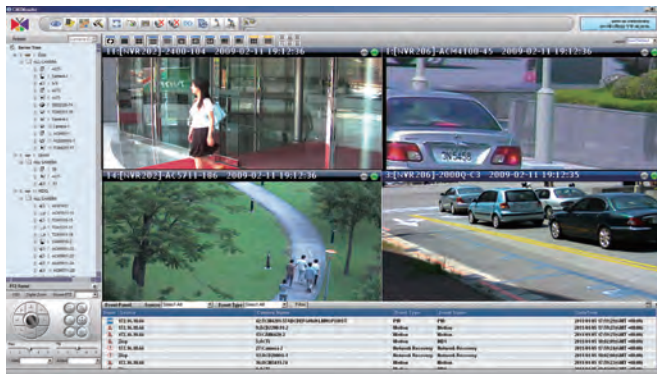
Single stream mode: 1280x1024, 3Mbps, 18fps, MPEG-4

Dual stream mode: 1280x1024, 3Mbps, 18fps, H.264 (recording) and 640x480, Quality:100, 18fps, MJPEG (live view)

For more details about system requirements, please refer to Project Planner on www.acti.com

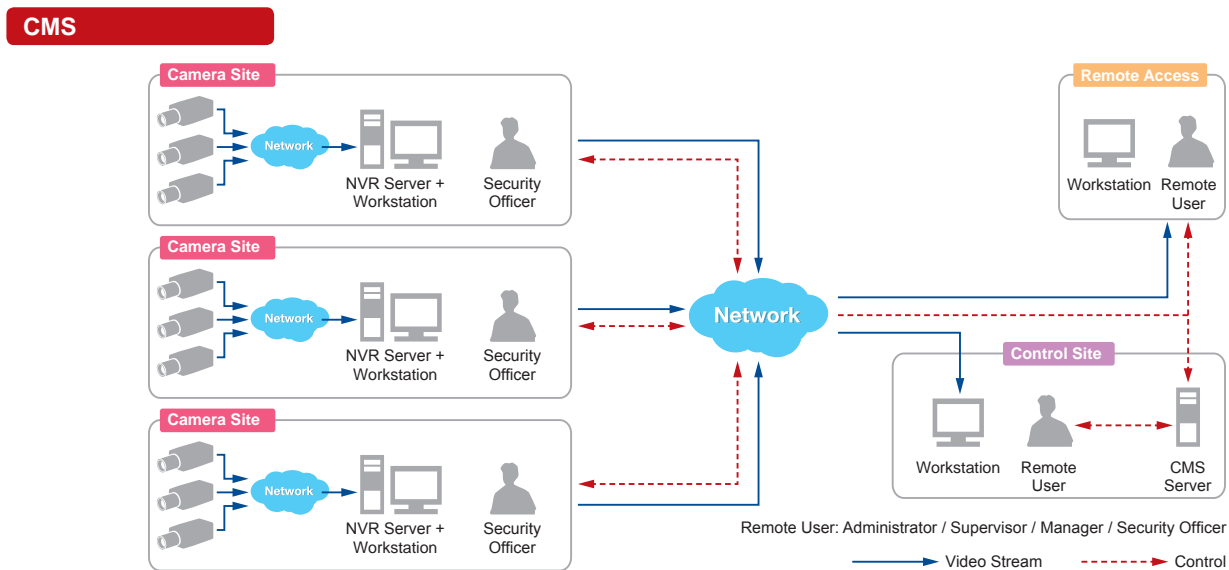
ACTi CMS v1.1

ACTi Central Management System








- Manage unlimited number of NVR Enterprise servers and IP cameras
- Support H.264/MPEG-4/MJPEG formats up to 4-Megapixel resolution
- Live view with 1, 4, 6, 8, 9, 12, 16, 36, 49, 64 window layouts
- Live videos from different NVR servers into single layout
- PTZ and speed control, mouse PTZ
- E-maps with camera icons, mini live views, map links and event status
- KCM/TCM/TCD device dual stream management
- Manual recording (saved in NVR Enterprise) and snapshot
- Full screen playback with 1x-8x speeds
- 4-channel synchronized playback
- Receive events from multiple NVR Enterprise servers
- Two-way audio, multi-channel audio broadcast
- Unlimited number of remote clients using web browser or installable program
- HTTPs protocol between server and client

SOLUTION ARCHITECTURE



BUNDLED UTILITIES

	IP Utility	Search, list and manage devices within local area network, upgrade firmware, backup/restore configuration
	Archive Player	Forward and backward playback of RAW files with 1x-8x speeds together with manual snapshot function
	Media Converter	Convert one or many RAW video clips into a sequence of JPEG snapshots or into AVI video clips and save locally
	Backup Wizard	Backup and restore configuration of ACTi NVR and CMS
	Streaming Explorer	Test device connections, PTZ and event functions via web browser

ACTi CMS v1.1

PRODUCT SPECIFICATION

CMS v1.1

• General

Full Name	ACTi Central Management System v1.1
Maximum Number of NVR	Unlimited
Maximum Number of Clients	Unlimited
Maximum Number of Cameras	Unlimited
Compression	H.264, MPEG-4, MJPEG
NVR Management	Import management settings of NVR Enterprise servers

• Live View

Display Layout Mode	1, 4, 6, 8, 9, 12, 16, 36, 49, 64
Layout Manager	An interface to define display layouts and the pre-set cameras within layouts; full-screen mode available
Layout Tour	Automatic switch between different display layouts
Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons
Camera Tree	Drag and drop video source from camera tree into display layout
Manual Recording / Snapshot	Instant recording to NVR Enterprise Server upon mouse click / Instant snapshot upon mouse click
Event Panel	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full
Two-way audio	Audio sound from and to all the audio supported devices; audio broadcast to multiple devices at the same time
Dual Stream Management	Live view of stream 1 or stream 2 of dual stream devices

• E-map

Layout	Area maps with camera icons, small live view windows; hyperlinked
Setup	E-map image upload; camera positioning; map linking
PTZ Mode	Mouse PTZ mode to control E-map video streams
Event Panel	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full

• PTZ

Control	Pan, tilt and zoom controls; speed control; both buttons and overlay controls
Preset Points and Tours	Activate NVR preset points or auto tours between preset points
Joystick	USB based joystick supported
Absolute Position	Supports absolute position function of PTZ and Speed Dome cameras for convenient navigation
User Defined Protocol	Activate user defined PTZ or Housing commands in NVR

• Search & Playback

Time Based Video Search	Search video recordings by time, channel from multiple NVRs
Event Based Video Search	Search alarm triggered video recordings from multiple NVRs
Event Based Snapshot Search	Event triggered snapshots listed as clickable thumbnails for full-size view and export
Activity and Status Log Search	Search for log of video loss/recovery, network disconnect/reconnect, alarm events, user activity; XLS export of all logs (CMS and NVRs)
Playback Control	Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop
Synchronized Playback	4 channels
Manual Snapshot	Instant snapshot from playback upon mouse click
Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons
Video Cropping	Crop a short video clip from long recording file and save it as an independent file

• Event Management

Event Source	Receive events from multiple NVR servers
Event Trigger	Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery
Event Response	Pop-up window with live video; Switch to hotspot window; Play alert audio file or beep
Manual Event	Manually activate external devices through digital output via live view monitor

• System

Permission Control	Unlimited number of users, multi-level permission, user group permission, e-Map permission for different users
Language	Multi-language support

• Remote Access

PC Client Program	User interface program (Workstation) with live view, PTZ, playback, e-map, event management, setup
PC Web Browser	Microsoft Internet Explorer 8.0 or 9.0 with live view, PTZ, playback, e-map, event management, setup

• System Requirements*

Server PC with Local Client	1-16 channels: Intel Core 2 Duo 2.66 GHz 32-bit, 4GB RAM 17-64 channels: Intel Core i7-920 2.67 GHz 64-bit, 6GB RAM
Server PC without Local Client	1-64 channels: Intel Core 2 Duo 2.4 GHz 32-bit, 4GB RAM
Remote Client PC	1-16 channels: Intel Core 2 Duo 2.66 GHz 32-bit, 4GB RAM 17-64 channels: Intel Core i7-920 2.67 GHz 64-bit, 6GB RAM
Operating System	32/64 bit: Windows 7 (Professional), Windows Server 2008 (Enterprise, Standard), Windows Vista (Business, Enterprise, Ultimate), Windows Server 2003 SP2, Windows XP Professional SP3
Browser	Microsoft Internet Explorer 8.0 or 9.0
Web Server	Microsoft IIS Server

• Integration

Unified Solution	Fully compatible with ACTi cameras, encoders and NVR Enterprise v2.2 and v2.3
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* These specifications are based on following camera settings:

Single stream mode: 1280x1024, 3Mbps, 18fps, MPEG-4

Dual stream mode: 1280x1024, 3Mbps, 18fps, H.264 (recording by NVR) and 640x480, Quality:100, 18fps, MJPEG (live view by CMS)

For more details about system requirements, please refer to Project Planner on www.acti.com

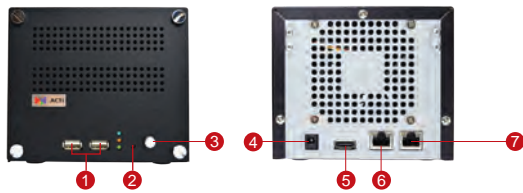
ENR-1000

4-Channel Mini Standalone NVR



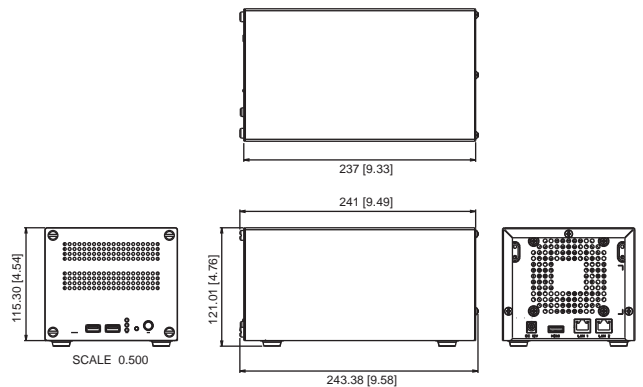
- Manage up to 4 IP cameras or video encoders
- Support H.264 formats up to 2-Megapixel resolution
- Live view with 1, 4 window layouts
- PTZ and speed control, preset points and tours, mouse PTZ
- HDD Bay for 2 SATA disks (total up to 6 TB)
- Maximum total recording frame rate 120 fps
- Scheduled, event triggered and manual recording
- Time and event based search
- Playback with 1/8x-1x-32x speeds with AVI video export function
- 4-channel synchronized playback
- Event management with motion detection and DI/DO
- Built-in DHCP server support
- HDMI Local display
- Compact Design

PHOTO INDICATION



- | | |
|----------------------|-------------|
| ① USB 2.0 Ports | ⑤ HDMI Port |
| ② Reset Button | ⑥ LAN1 |
| ③ Power Button | ⑦ LAN2 |
| ④ DC 12V power input | |

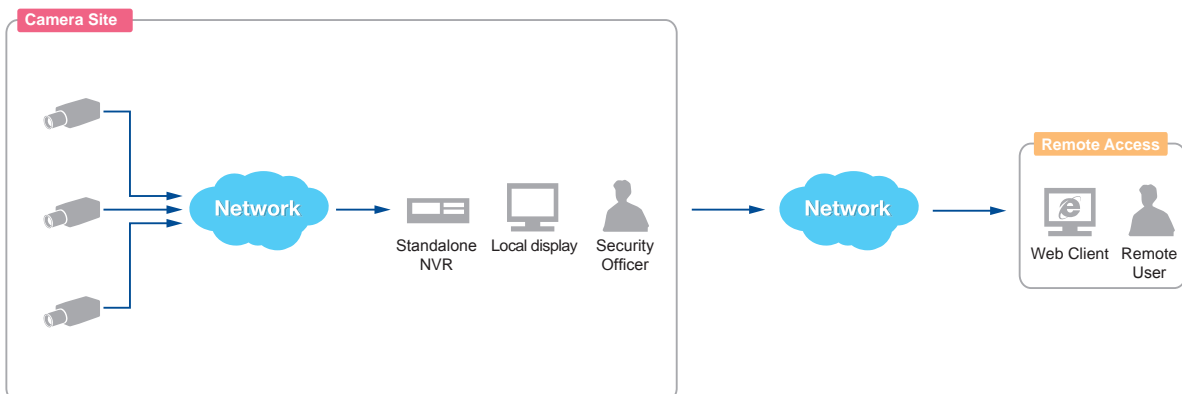
DIMENSION DIAGRAM



Unit: mm [inch]

SOLUTION ARCHITECTURE

Standalone NVR



Remote User: Administrator / Supervisor / Manager / Security Officer

PRODUCT SPECIFICATION

ENR-1000

• General

Full Name	ACTi Standalone Network Video Recorder ENR-1000
Maximum Number of Clients	2
Maximum Number of Cameras	4
Compression	H.264
Maximum display resolution	1920X1080

• Live View

Display Layout Mode	1, 4
Layout Tour (Auto Patrol)	Automatic switch between different display layouts
Digital Panel	Zoom in digitally by mouse
Event status	Display status for network/record/motion upon every video region

• PTZ

Control	Pan, tilt and zoom controls; speed control
Preset Points and Tours	Go/set preset points
Number of Preset Points	32
Default Protocol	URL command

• Recording

Scheduled Recording	Record video with user defined schedule
Event Recording	Record video when the alarm event is triggered, including the pre-event buffered video clip
Event Speed-up Recording	Record I frame only in normal status, and record full frames when the alarm event is triggered
Manual Recording	Instant recording upon mouse click
Recording Frame Rate	Max 120 fps total; Max 30 fps per camera
Maximum Recording Throughput	16 Mbps

• Storage

Interface	Serial ATA
HDD Bay	Maximum 2 disks (disks not included)

• Search & Playback

Time Based Video Search	Search video recordings by time, channel or bookmark
Event Based Video Search	Search event triggered video recordings
Playback Control	Forward and backward playback with speeds 1/2x-1x-32x; pause; stop
Synchronized Playback	4 channels
Manual Snapshot	Create snapshot from playback for export
Video Cropping	Crop a short video clip from long recording file and save it as an independent file; video clip length:(1-30mins)
Video Export	Export video clips in AVI/RAW format via USB storage

• Event Management

Event Trigger	Video motion detection; External device through digital input; Video loss and recovery; Network loss and recovery
Event Response	Record video; Play alert beep; Activate external device through digital output; E-mail notification with snapshots; Event logging; Go to PTZ preset point; Pop-up instant playback

• System

FW Upgrade	FW Upgrade via USB mass storage
Configuration backup/restore	Configuration backup/restore via USB mass storage
Permission Control	Multi-group/users, liveview/playback/setup/remote level permission
Data Backup	USB mass storage
Operating System	Embedded Linux
System Status Monitor	Real time status reports on remote browser
Language	English

• Remote Access

PC Web Browser	Microsoft Internet Explorer 8.0 or 9.0
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• Hardware

Dimensions (W x H x D)	135 mm x 121 mm x 241 mm (5.3" x 4.8" x 9.5")
Weight	1.33kg (2.93 lb) without HDD
Operating Temperature	0°C~ 40°C(32°F ~ 104°F)
Operating Humidity	10% ~ 85% RH
Power Source / Consumption	DC 12V/ 50W
Bundled Accessories	Power Adapter, (100~240V) with 3 different connectors included
Approvals	CE, FCC Adapter: CE, FCC, UL, PSE, EFFICIENCY LEVEL V
USB	USB 2.0, 2 ports
Ethernet Port	2, Ethernet (1000 Base-T), RJ-45 connector, Built-in DHCP server support on Ethernet Port 1
Display port	HDMI

• Integration

Unified Solution	Fully compatible with ACTi cameras, and encoders
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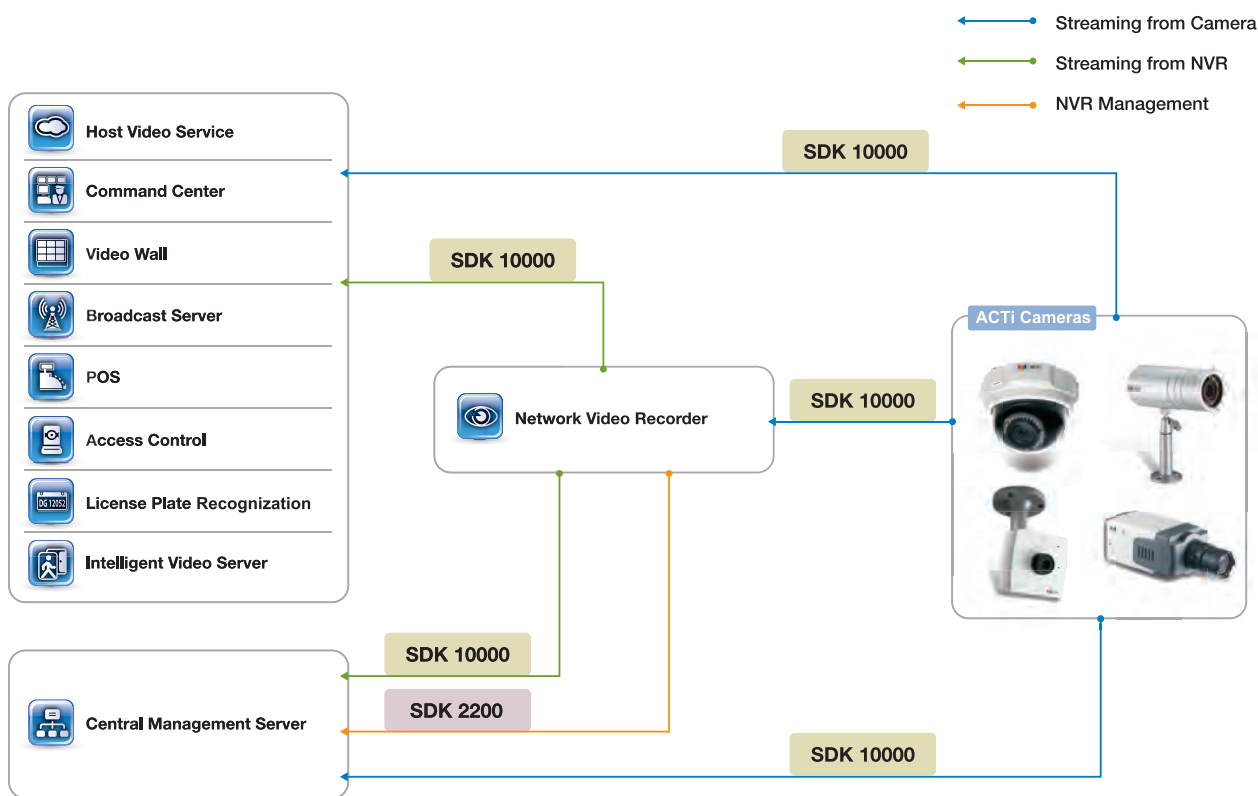
ACTi SDK

ACTi Software Development Kit



- One SDK for all ACTi devices
- SDK for ACTi NVR Server
- Support DivX, XviD, FFMPEG, Intel IPP Decoder
- Support MPEG-4, H.264 and MJPEG compression
- C SDK Edition
- ActiveX Control Edition
- Windows Mobile C SDK Edition

POSITIONING



SDK-2200	SDK for ACTi NVR Server • C SDK Edition • ActiveX Control Edition
SDK-10000	SDK for all ACTi products • C SDK Edition • ActiveX Control Edition • Windows Mobile C SDK Edition

PRODUCT SPECIFICATION

ACTi SDK

• Development Environment

Environment	Windows XP, Windows 2003, Windows Vista, Windows 7 Professional
Programming Language	C, ActiveX Control

• SDK-10000

SDK Offerings	C SDK, ActiveX Control SDK, URL Command, RTP/RTSP Package
Supported Devices	ACTi IP Camera, IP Dome, IP Speed Dome, Video Server, Quad Video Server
Supported Resolution	2032 x 1920 / FULL HD 1080P (1920 x 1080) / HD 720P (1280 x 720) / D1(720 x 480) / VGA (640 x 480) / CIF(352 x 240) / QCIF(160 x 112)
Format	MPEG-4 / H.264 / MJPEG
Standard Decoding	Supports FFMPEG, DivX, XviD, Intel IPP decoder
Protocol	TCP, Multicast, RTP/RTSP
Preview	MPEG-4 / H.264 / MJPEG streaming, decoding, render and display
RGB Buffer	Callback function to retrieve RGB buffer
Audio	2-way audio supported. Audio format complies with PCM / 8 KHz sampling rate / MONO
Recording	Recording, alarm recording with pre-event, post-event recording time. MPEG-4/H.264/MJPEG raw data and AVI format supported
Playback	Playback recorded archive with speed control, forward/backward direction control, seek and frame-by-frame operation
Motion Detection	Callback function supported when a motion event is detected
Digital I/O Event	Callback function supported when a digital input is triggered
Serial Port Function	Sends serial port commands or receives data from serial port.
PTZ Function	Pan, Tilt, Zoom, Preset, IRIS, OSD, Absolute Position
PTZ Protocols	Pelco-P, Pelco-D, Sony VISCA, Lilin, Dynacolor, TOA, Eyeview, VideoTrec
Sample Codes	AbsolutePosition, ArchivePlayer, ControlSample, DecodeSample, MediaConverter, PTZSample, RTPSample, StreamSample, SearchSample, SendAudio

• SDK-10000 Windows Mobile Edition

Environment	Microsoft Windows Mobile 5, Windows Mobile 6
CPU	Intel XScale Series, Samsung Series, TI OMAP Series
Programming Language	Visual Studio 2005, Visual Studio 2008, C/C++
Resolution	D1(720 x 480) / VGA (640 x 480) / CIF(352 x 240) / QCIF(160 x 112) when get from Device; QVGA (320 x 240) / QQVGA (160 x 112) when get from NVR. You should adjust the video profile according to your mobile device performance
Sample Codes	Preview, PTZ, Preview from NVR

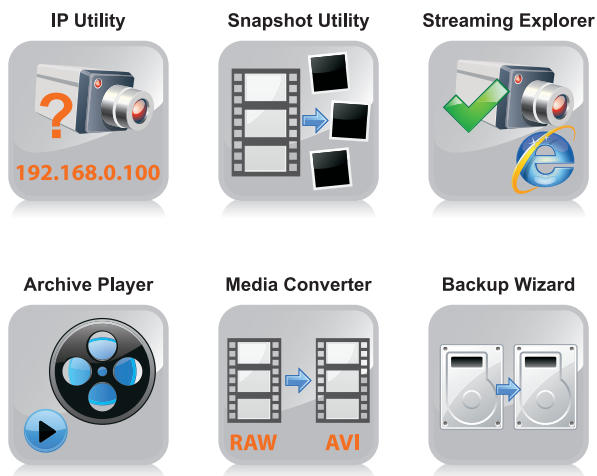
• SDK-2200

SDK Offerings	C SDK, ActiveX Control SDK
Supported Devices	ACTi NVR Server Enterprise Edition
Format	MPEG-4 / H.264 / MJPEG
Audio	2-way audio
PTZ Controls	Controls PTZ operations via ACTi NVR
ACTi NVR Management	Query system information; add, delete devices via ACTi NVR
ACTi NVR Monitor	Monitor ACTi NVR system resources, disk capacity, recording, schedule and system logs
Search Video Clips	Search video clips recorded on ACTi NVR
Remote Preview	Preview ACTi IP Camera Video via ACTi NVR
Remote Playback	Playback recorded archives on ACTi NVR
Event Management	Events will be passed via ACTi NVR
Sample Codes	Remote search, Remote preview, Remote playback

• Sample Codes







Absolute Position	Use absolute position to control PTZ camera.
Archive Player	Preview a RAW file with playback function.
Control Sample	Setup control port connection and receive event from device directly
Decode Sample	Supported functions include connects to the device, receives RAW data, decode MPEG4/H.264 to RGB buffer, display RGB buffer, and save to BMP file
Media Converter	Convert RAW file to AVI format
PTZ Sample	Get PTZ command from PTZParser library and send PTZ command via URL command
RTP Sample	Connects to device using RTP over UDP or RTP over Multicast, and support audio function
Stream Sample	Functions included: Live view via TCP, Multicast, RTP, 2-way audio, record, playback, Get/Set device configuration, Motion detection, DIO
Search Sample	Search for connectable devices
Send Audio	Send wave file to device.

ACTi Utility



- **IP Utility:** Search, list and manage devices within local area network, upgrade firmware, backup/restore configuration
- **Snapshot Utility:** Convert live video into a sequence of JPEG snapshots and save locally or send to FTP or by e-mail
- **Streaming Explorer:** Test device connections, PTZ and event functions via web browser
- **Archive Player:** Forward and backward playback of RAW files with 1x-8x speeds together with manual snapshot function
- **Media Converter:** Convert one or many RAW video clips into a sequence of JPEG snapshots or into AVI video clips and save locally
- **Backup Wizard:** Backup and restore configuration of ACTi NVR and CMS
- **Config Converter:** Transfer NVR 2.3 configuration to NVR 3

POSITIONING

Utility	Purpose	Usage	
		Local File Management	Connect to Camera
 IP Utility	Installation		Y
 Snapshot Utility	Evidence Presentation		Y
 Streaming Explorer	Installation		Y
 Archive Player	Evidence Presentation	Y	
 Media Converter	Evidence Presentation	Y	
 Backup Wizard	Installation	Y	

PRODUCT SPECIFICATION

ACTi Utility

• IP Utility

Search Device	Instant search and list IP cameras, video encoders and decoders within different local area networks; IP address, camera name, MAC address, firmware version, model name, serial number and multicast IP are available in the device list; streaming settings shown by mouseover
Manage Device System	Automatic IP address assignment to multiple cameras; Configure host name, network addresses, HTTP port number, date and time; backup configurations; restore configurations to multiple devices at the same time; auto-login to device's web page for detailed configuration
Manage Device Settings	Configure motion detection, video and audio settings in multiple devices at the same time; define URL commands for all-purpose setup
Firmware Upload	Camera firmware or ISP firmware upload to multiple devices at the same time; Auto-select of correct upgrade image files within defined folder
Camera Profile Upload	Camera profile upload to multiple devices at the same time
Language	Multi-language support

• Snapshot Utility

Snapshot Generator	Generate JPEG images from a live video stream of up to 16 devices at the same time and save them locally
Snapshot Frequency Rate	Based on source video frame rate or user defined frame rate
Source Video Resolution	Up to 4-Megapixel resolution
Source Video Compression	H.264, MPEG-4, MJPEG
Resize Snapshot	Resize to QCIF, CIF, VGA, D1 or Megapixel
Text Overlay	Device name, IP address or date/time on the snapshot
Snapshot Forwarding	Send snapshots to FTP or by e-mail upon Motion Detection or upon activation of Digital Input
Save Configuration	Snapshot rules and source video information can be saved for all the 16 channels of Snapshot Utility

• Streaming Explorer

Live View	One-channel web browser based live view monitor; full screen mode supported
Compression	H.264, MPEG-4, MJPEG
Video Resolution	Up to 4-Megapixel resolution
Dual Stream Management	Live view of dual stream enabled devices
PTZ Control	Pan, Tilt, Zoom buttons; Mouse PTZ; Iris and focus control
OSD Control	On-screen menu to configure the settings of speed domes or other OSD supported cameras
Event Source Setup	Video motion detection or passive infrared setup
Manual Event Trigger	Manually activate digital output
Network Protocol	HTTP, TCP, RTSP
Supported Web Browser	Microsoft Internet Explorer 8.0 or 9.0

• Archive Player

Playback	Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop
Playback Accuracy	The time stamp of each frame is shown in milliseconds
Compression	H.264, MPEG-4, MJPEG
Video Resolution	Up to 4-Megapixel resolution
Layout	One-channel layout with full-screen display option
Manual Snapshot	Save JPEG or BMP snapshot file locally upon mouse click
Text Overlay	User defined text, channel ID or date/time on snapshot

• Media Converter

Video Format Conversion	Convert RAW (H.264, MPEG-4 or MJPEG) video and audio into AVI
Video Resolution	Up to 4-Megapixel resolution
Snapshot Generator	Generate JPEG images from a recorded RAW video stream and save them locally
Snapshot Frequency	Based on source video frame rate
Text Overlay	User defined text, channel ID or date/time on snapshot or AVI
Multiple RAW File Conversion	Convert all the RAW files within same folder into AVI files or snapshots
Video Cropping	Crop a short video clip from a long RAW file and save it as an independent RAW or AVI file

• Backup Wizard

Backup and Restore Configuration	Backup and restore configuration of ACTi NVR and CMS, including camera configuration, user and group information, layout configuration, e-map, recording schedule and recording log data; it will not backup and restore license information
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PMON-1001



- Live view from the camera with any resolution
- Scale-down to fit resolution of mobile device
- PTZ control and re-focus for capable models
- IP address management with Smart DHCP
- PoE power supply for cameras
- Wide temperature range
- Free mobile device application "CameraGo!"
- Auto rotation of live view

INTRODUCTION

Camera Installation Kit PMON-1001 is a light on-the-belt hardware utility that connects to the IP camera and provides PoE power through a short network cable while providing wireless network access for iPhone or iPod Touch that has a free app "CameraGo!" installed.

With the help of this installation kit it is possible to do convenient and time-saving viewing angle and focus adjustment of ACTi cameras without needing to bring a notebook computer up on the ladder with the long cable attached or ask someone on the ground for assistance.

DESIGN CONCEPT

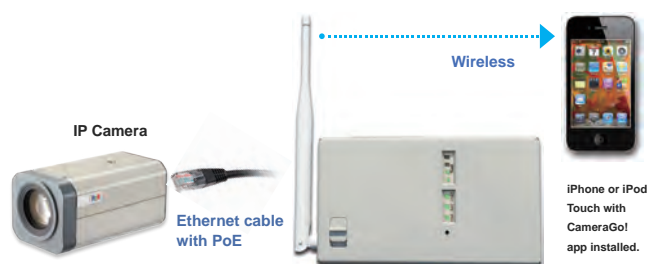
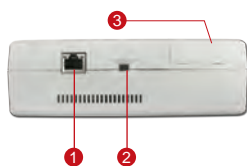
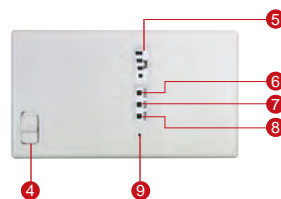


PHOTO INDICATION



- 1 Ethernet Port
- 2 Power On Switch
- 3 Battery Slot



- 4 Antenna Lock
- 5 Searching for Camera / Ready for Wi-Fi Client
- 6 Ethernet Connected / Data Transmission
- 7 System Ready LED
- 8 Power LED
- 9 Reset Button

BUNDLED ACCESSORIES

Accessories

Belt bag
Rechargeable battery
Charger



OPTIONAL ACCESSORIES

Options

PACX-0002	Rechargeable Li-ion battery (4400mAh, 7.2V)
PACX-0003	Charger (US, AC 110 ~ 240V, 2 flat blades)
PACX-0004	Belt bag (Water-resistant canvas, yellow)
PACX-0005	Charger (Europe, AC 110 ~ 240V, 2 round pins)

PMON-1001

PRODUCT SPECIFICATION

PMON-1001

• General

Full Name	Camera Installation Kit PMON-1001
Maximum Number of Cameras	1

• Live View

Display Layout Mode	Single channel
Display Resolution	Defined by mobile device
Re-scaling to Full Screen	Auto
Rotation	Auto

• PTZ & Auto Focus

PTZ Control	Pan, tilt and zoom buttons as video overlay
Re-focus	Re-focus button to auto focus the camera

• System

IP Address Management	Smart DHCP
Device search	Auto search via UDP
Video Streaming Protocol	HTTP
Wi-Fi Security	WEP/WPA/WPA2-PSK

• Remote Access

Handheld Mobile Device	iPhone 3G or newer; iPod Touch
Operating System Requirement	iOS 5.0 or newer
Application Requirement	Free downloadable app "CameraGo!" (English only)

• Network Interface

Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
PoE Power Supply for Cameras	PoE Class 3 (IEEE 802.3af)
Wi-Fi Standard	802.11 b/g
Wi-Fi Operating Frequency	2412 ~ 2462 MHz

• Hardware

Dimensions (W x H x D)	169.94 mm x 54 mm x 97.34 mm (6.69" x 2.13" x 3.83")
Weight	535.5 g (1.18 lb), including the weight of battery and antenna
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F)
Operating Humidity	10% ~ 85% RH
Power Source / Consumption	Li-ion battery / Depends on PoE camera
Antenna	5 dBi Plastic Omni Antenna

• Bundled Accessories

Battery	Rechargeable, Li-ion, 4400mAh, 7.2V, 184.5 g (0.41 lb)
Battery Charger	US or EUR connector, AC 110 ~ 240V, Charging current 600 mA ± 50 mA, 126 g (0.28 lb)
Belt Bag	Water-resistant canvas, yellow, 55.5 g (0.12 lb)

• Integration

Unified Solution	Fully compatible with ACTi cameras
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EXAMPLE OF USAGE





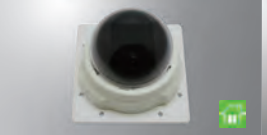


















Accessory

Lens Selection Table

ACTi P/N	PLEN-0101	PLEN-0119	PLEN-0121	PLEN-0201	PLEN-0202	
						
Size	1/3"	1/3.2"	1/3"	1/3"	1/3"	
Mount	CS	CS	Board	CS	CS	
Type (IR Compatible)	IR	IR	IR	Normal	IR	
IRIS	Fixed	Fixed	Fixed	Manual	Manual	
Aperture (F)	1.8	2	2	1.2	1.6	
Focal Length (mm)	4.2	2.8	2.8	2.4~6	2.8~12	
Products - Field of View (HOR) (°)	E11		72			
	E12	62				
	E13	62				
	E21		72			
	E22	62				
	TCM-3111			92.5		
	TCM-4511				113.4~46	94~25.5
	TCM-5111					91.1~22.9

Accessory

Mounting Configuration Table

Indoor Dome				
	Flush Mount	L Type Wall Mount	Gang Box Converter	Pendant Mount
D51 E51 E52 E53 E54 TCM-3111 TCM-3511 KCM-3311	PMAX-1006 for all except PMAX-1008 for KCM-3311	PMAX-0308	PMAX-0801 (All Models except KCM-3311)	PMAX-0101 + PMAX 0103
				
Outdoor / Indoor Dome				
	Flush Mount	L Type Wall Mount	Pendant Mount	Pendant Mount / Box
ACM-7411 TCM-7411 TCM-7811 KCM-7111 KCM-7311	PMAX-1003 for all except PMAX-1004 for TCM-7811	PMAX-0308	PMAX-0101 + PMAX 0103	PMAX-0101 + PMAX-0102 + PMAX-0700
				
Gooseneck Wall Mount - Raised	Gooseneck Wall Mount - Flat	Gooseneck Wall Mount / Box	Heavy Duty Wall Mount	Heavy Duty Wall Mount / Box
PMAX-0101 + PMAX-0302	PMAX-0101 + PMAX-0303	PMAX-0101 + PMAX-0303 + PMAX-0700	PMAX-0101 + PMAX-0305	PMAX-0101 + PMAX-0305 + PMAX-0700
				
Gooseneck Pole Mount	Gooseneck Pole Mount / Box	Heavy Duty Pole Mount	Heavy Duty Pole Mount / Box	
PMAX-0101 + PMAX-0303 + PMAX-0502	PMAX-0101 + PMAX-0303 + PMAX-0502 + PMAX-0700	PMAX-0101 + PMAX-0305 + PMAX-0502	PMAX-0101 + PMAX-0305 + PMAX-0502 + PMAX-0700	
				
Heavy Duty Corner Mount	Heavy Duty Corner Mount / Box	Gooseneck Corner Mount	Gooseneck Corner Mount / Box	
PMAX-0101 + PMAX-0305 + PMAX-0402	PMAX-0101 + PMAX-0305 + PMAX-0402 + PMAX-0700	PMAX-0101 + PMAX-0303 + PMAX-0402	PMAX-0101 + PMAX-0303 + PMAX-0402 + PMAX-0700	
				

* Use PMAX-0104 Extension Tube when camera is suspended far below the mounting point.



: Indoor


















: Outdoor

Accessory

Mounting Configuration Table

	Box		Bullet	
	Pole Mount	Corner Mount	Pole Mount	Corner Mount
Box: E21 E22 TCM-5111 Bullet: E31 E32 E33 TCM-1111 TCM-1231	PMAX-0200/0201/0202 + PMAX-1101 + PMAX-0502 	PMAX-0200/0201/0202 + PMAX-1101 + PMAX-0402 	PMAX-1103 + PMAX-0502 	PMAX-1103 + PMAX-0402 

	Speed Dome			
	Gooseneck Pole Mount	Gooseneck Pole Mount / Box	Heavy Duty Pole Mount	Heavy Duty Pole Mount / Box
TCM-6630	PMAX-0306 + PMAX-0502 	PMAX-0306 + PMAX-0502 + PMAX-0700 	PMAX-0309 + PMAX 0502 	PMAX-0309 + PMAX-0502 + PMAX-0700 
Gooseneck Wall Mount - Raised	Gooseneck Wall Mount - Flat	Gooseneck Wall Mount / Box	Heavy Duty Wall Mount	Heavy Duty Wall Mount / Box
PMAX-0307	PMAX-0306	PMAX-0306 + PMAX-0700	PMAX-0309	PMAX-0309 + PMAX-0700
				
Gooseneck Corner Mount	Gooseneck Corner Mount / Box	Heavy Duty Corner Mount	Heavy Duty Corner Mount / Box	
PMAX-0306 + PMAX-0402	PMAX-0306 + PMAX-0402 + PMAX-0700	PMAX-0309 + PMAX-0402	PMAX-0309 + PMAX-0402 + PMAX-0700	
				
Pendant Mount	Pendant Mount / Box			
PMAX-0109	PMAX-0108 + PMAX-0700			
				

* Use PMAX-0104 Extension Tube when camera is suspended far below the mounting point.






: Indoor






: Outdoor

Accessory


Fixed Housings & Brackets




Outdoor Housing			
	PMAX-0200	PMAX-0201	PMAX-0202
			
Color	Beige	Beige	Beige
Material	Aluminum (Baked enamel)	Aluminum (Baked enamel)	Aluminum (Baked enamel)
Mounting	From bottom	From bottom	From bottom
Dimension (W x H x D)	147 x 140 x 470 mm (5.79" x 5.51" x 18.50")	147 x 140 x 470 mm (5.79" x 5.51" x 18.50")	113 x 106 x 410 mm (4.45" x 4.17" x 16.14")
Weight	2.34 kg (5.16 lb)	2.34 kg (5.16 lb)	2.7 kg (5.95 lb)
Certification	IP66, CE	IP66, CE	IP66, CE
Fan & Heater	Powered by AC 110V	Powered by AC 220V	N/A
Applied Model	E21 E22 TCM-5111		E21 E22 TCM-5111




Bracket			
	PMAX-1100	PMAX-1103	PMAX-1101
			
Color	Ivory	Silver-grey	Beige
Material	Plastic	Aluminum	Aluminum
Swivel Angle	N/A	360°	360°
Tilt Angle	90°	90°	90°
Maximun Load	3.5 kg (7.72 lb)	10 kg (22.05 lb)	10 kg (22.05 lb)
Dimension	L x Baseplate 175 x 89 mm (6.89" x 3.50")	W x L x H: 84 x 99 x 270 mm (3.31" x 3.90" x 10.63")	W x L x H: 84 x 99 x 270 mm (3.31" x 3.90" x 10.63")
Weight	0.5 kg (1.10 lb)	1 kg (2.20 lb)	1 kg (2.20 lb)
Applied Model	For Cameras: E21 E22 TCM-5111 KCM-5111 KCM-5211	For Cameras: E31 E32 E33 TCM-1111 TCM-1231	For Cameras: KCM-5211E KCM-5511 KCM-5611 For Outdoor Housings: PMAX-0200 PMAX-0201 PMAX-0202

Accessory

Dome Covers




Fixed Dome Cover				
	PDCX-0101	PDCX-0100	PDCX-0104	PDCX-0105
				
Environment	Indoor	Indoor	Indoor	Indoor
Color	Smoke dome cover	Smoke dome cover	Smoke dome cover	Smoke dome cover
Material	Plastic (PC / ABS)	Plastic (PC / ABS)	Plastic (PC / ABS)	Plastic (PC / ABS)
Diameter	96 mm (3.78")	96 mm (3.78")	96 mm (3.78")	96 mm (3.78")
Weight	0.23 kg (0.51 lb)	0.23 kg (0.51 lb)	0.52 kg (1.15 lb)	0.49 kg (1.08 lb)
Casing	Non-vandal proof	Non-vandal proof	Non-vandal proof	Non-vandal proof
Applied Model	TCM-3111	TCM-3511	D51; E51	E52; E53; E54

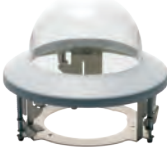
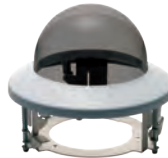

Fixed Dome Cover			
	PDCX-1102	PDCX-1101	PDCX-1104
			
Environment	Indoor	Indoor / Outdoor	Outdoor
Color	Smoke dome cover	Smoke dome cover	Smoke dome cover
Material	Plastic (PC / ABS)	Plastic (PC / ABS)	Plastic (PC / ABS)
Diameter	100 mm (3.94")	107.8 mm (4.25")	105.2 mm (4.14")
Weight	0.132 kg (0.29 lb)	0.26 kg (0.57 lb)	0.148 kg (0.33 lb)
Casing	Vandal proof	Vandal proof	Vandal proof
Applied Model	ACM-3701E	ACM-7411; TCM-7411 KCM-3311; KCM-7111 KCM-7311	TCM-7811





Speed Dome Cover			PTZ Dome Cover
	PDCX-0001	PDCX-1001	PDCX-1105
			
Environment	Outdoor	Outdoor	Indoor
Color	Transparent dome cover	Transparent dome cover	Smoke dome cover
Material	Plastic (PC / ABS)	Plastic (PC / ABS)	Plastic (PC)
Diameter	145 mm (5.71")	145 mm (5.71")	Φ134 x 77 mm (Φ5.28" x 3.03")
Weight	0.625 kg (1.38 lb)	0.64 kg (1.41 lb)	0.2 kg (0.45 lb)
Casing	Non-vandal proof	Vandal proof	Non-vandal proof
Applied Model		TCM-6630	KCM-8111

Accessory

Dome & PTZ Camera Mounting Accessories




	PMAX-0308	PMAX-0311	PMAX-0801
			
Name	L Type Wall Mount	L Type Wall Mount	Gang Box Converter
Environment	Indoor / Outdoor	Indoor	Indoor
Color	White	White	White
Material	Aluminum	Aluminum	Aluminum
Dimension (W x L x D)	157.7 x 113.3 x 230 mm (6.21" x 4.46" x 9.06")	157.7 x 113.3 x 230 mm (6.21" x 4.46" x 9.06")	140 x 140 x 6 mm (5.52" x 5.52" x 0.24")
Weight	1.2 kg (2.65 lb)	0.807 kg (1.78 lb)	0.4 kg (0.88 lb)
Applied Model	D51; E51; E52; E53; E54; ACM-7411; ACM-8511; TCM-3111; TCM-3511; TCM-7411; TCM-7811; KCM-3311; KCM-7111; KCM-7311	KCM-8111	D51; E51; E52; E53; E54 TCM-3111; TCM-3511




	PMAX-1001	PMAX-1002	PMAX-1003
			
Name	Flush Mount Kit	Flush Mount Kit	Flush Mount Kit
Environment	Indoor	Indoor	Outdoor
Color	White / Transparent dome cover	White / Smoke dome cover	White
Material	Plastic / Aluminum	Plastic / Aluminum	Plastic / Aluminum
Dimension (Ø x H)	197.2 x 160 mm (7.77" x 6.30")	197.2 x 160 mm (7.77" x 6.30")	197.2 x 72.8 mm (7.77" x 2.87")
Weight	0.85 kg (1.87 lb)	0.85 kg (1.87 lb)	0.58 kg (1.28 lb)
Applied Model	ACM-8511	ACM-8511	ACM-7411; TCM-7411 KCM-7111; KCM-7311




	PMAX-1004	PMAX-1006	PMAX-1008	PMAX-1010
				
Name	Flush Mount Kit	Flush Mount Kit	Flush Mount Kit	Flush Mount
Environment	Indoor	Indoor	Indoor	Indoor
Color	White	White	White	White
Material	Plastic / Aluminum	Plastic / Aluminum	Plastic / Aluminum	Plastic / Iron
Dimension (Ø x H)	197.2 x 86 mm (7.77" x 3.39")	197.2 x 72.8 mm (7.77" x 2.87")	197.2 x 72.8 mm (7.77" x 2.87")	220 x 105.4 mm (8.66" x 4.15")
Weight	0.6 kg (1.32 lb)	0.74 kg (1.63 lb)	0.58 kg (1.28 lb)	0.36 kg (0.79 lb)
Applied Model	TCM-7811	D51; E51; E52; E53; E54 TCM-3111; TCM-3511	KCM-3311	KCM-8111




Accessory

Dome & PTZ Camera Mounting Accessories

	PMAX-1009	PMAX-0310	PMAX-0802
			
Name	Hemispheric Camera Flush Mount Kit	Hemispheric Camera Wall Mount	Hemispheric Camera Surface Mount
Environment	Indoor	Indoor / Outdoor	Outdoor
Color	White	White	White
Material	Plastic / Aluminum	Plastic	Aluminum
Dimension (Ø x H)	197.2 x 72.1 mm (7.77" x 2.84")	150 x 34 mm (5.91" x 1.34")	146.5 x 15 mm (5.77" x 0.59")
Weight	0.62 kg (1.37 lb)	0.2 kg (0.44 lb)	0.218 kg (0.48 lb)
Applied Model	KCM-3911	KCM-3911; KCM-7911	KCM-7911



	PMAX-0305	PMAX-0309	PMAX-0303
			
Name	Heavy Duty Wall Mount	Heavy Duty Wall mount - For TCM-6630	Gooseneck Without Bracket
Environment	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Color	White	White	White
Material	Aluminum	Aluminum	Aluminum
Dimension (W x L x H)	90 x 145 x 232 mm (3.55" x 5.71" x 9.14")	190 x 145 x 232 mm (7.49" x 5.71" x 9.14")	323 x 90 x 351 mm (12.73" x 3.55" x 13.83")
Weight	1.05 kg (2.31 lb)	1.2 kg (2.65 lb)	1.24 kg (2.73 lb)




	PMAX-0302	PMAX-0306	PMAX-0307
			
Name	Gooseneck With Bracket	Gooseneck Without Bracket - For TCM-6630	Gooseneck With Bracket - For TCM-6630
Environment	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Color	White	White	White
Material	Aluminum	Aluminum	Aluminum
Dimension (W x L x H)	323 x 134 x 355 mm (12.73" x 5.28" x 13.99")	323 x 90 x 351 mm (12.73" x 3.55" x 13.83")	323 x 134x 355 mm (12.73" x 5.28" x 13.99")
Weight	1.49 kg (3.28 lb)	1.4 kg (3.07 lb)	1.68 kg (3.70 lb)



	PMAX-0402	PMAX-0502	PMAX-0700
			
Name	Corner Mount Kit	Pole Mount Kit	Junction Box
Environment	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Color	White	White	White
Material	Aluminum	Aluminum	Aluminum
Dimension	W x L x D: 330 x 206 x 206 mm (13.0" x 8.12" x 8.12")	Ø x H: 203 x 240 mm (8.0" x 9.45")	W x L x D: 220 x 208 x 155 mm (8.67" x 8.20" x 6.11")
Weight	1.35 kg (2.98 lb)	0.85 kg (1.87 lb)	2.04 kg (4.50 lb)

Accessory

Dome & PTZ Camera Mounting Accessories


	PMAX-0101	PMAX-0110
		
Name	Mount Kit	Mount Kit
Environment	Indoor / Outdoor	Indoor
Color	White	White
Material	Aluminum	Aluminum
Dimension (Ø x H)	152 x 74 mm (5.99" x 2.92")	152 x 75 mm (5.99" x 2.95")
Weight	0.75 kg (1.65 lb)	0.37 kg (0.82 lb)
Applied Model	D51; E51; E52; E53; E54; ACM-7411; ACM-8511; TCM-3111; TCM-3511; TCM-7411; TCM-7811; KCM-3311; KCM-7111; KCM-7311	KCM-8111

	PMAX-0102	PMAX-0103	PMAX-0104
			
Name	Straight Tube Without Bracket	Straight Tube With Bracket	Extension Tube
Environment	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Color	White	White	White
Material	Aluminum	Aluminum	Aluminum
Dimension	W x L x H: 140 x 90 x 255 mm (5.52" x 3.55" x 10.05")	W x L x H: 140 x 134 x 309 mm (5.52" x 5.28" x 12.17")	Ø x H: 51.8 x 540.3 mm (2.04" x 21.29")
Weight	0.63 kg (1.39 lb)	0.88 kg (1.94 lb)	0.91 kg (2.01 lb)


	PMAX-0108	PMAX-0109
		
Name	Straight Tube Without Bracket - For TCM-6630	Straight Tube With Bracket - For TCM-6630
Environment	Indoor / Outdoor	Indoor / Outdoor
Color	White	White
Material	Aluminum	Aluminum
Dimension (W x L x H)	140 x 90 x 286 mm (5.52" x 3.55" x 11.27")	140 x 134 x 340 mm (5.52" x 5.28" x 13.40")
Weight	0.8 kg (1.76 lb)	1.06 kg (2.34 lb)

Accessory

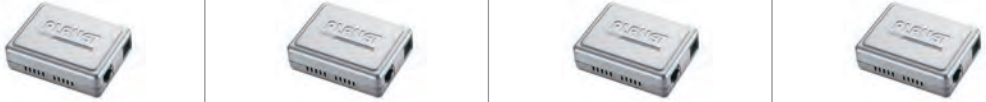
Power Adapter

PPBX-0002	
	
Name	Universal Power Adapter
Input	AC 100~240V
Output	DC 12V/ 1.5A
Connectors	4 different connectors included: 2 flat blades/2 round pins/3 flat blades UK type plug/oblique flat blades
Certificate	FCC, UL/cUL, PSE, CE, C-Tick, GS
Dimension (W x D x H)	145 x 106 x 53 mm (5.71" x 4.17" x 2.09")
Weight	0.175 kg (0.386 lb)


High PoE Injector

PPOE-0100	
	
Standard Compliance	IEEE 802.3at Power over Ethernet
Ethernet Connector	2xRJ-45
Ethernet Data Rate	10/100/1000 Mbps
Injector's Output Voltage	DC 55V, 0.6A
Dimension (W x D x H)	53 x 32.5 x 140 mm (2.09" x 1.28" x 5.5")
Power Cord (Included in Package)	Input: AC 100-240V, 0.8A (2 flat blades)
Applied Devices	IEEE 802.3at compliant with 2-event classification IEEE 802.3af backward compatible

PoE Injectors

	PPOE-0000	PPOE-1000	PPOE-3000	PPOE-4000
				
Standard Compliance	IEEE 802.3af Power over Ethernet			
Ethernet Connector	2xRJ-45			
Ethernet Data rate	10/100 Mbps			
Injector's Output Voltage	DC 48V, 0.4A			
Dimension (W x D x H)	73 x 55 x 24 mm (2.88" x 2.17" x 0.95")			
Power Adapter (Included in Package)	Input: 100~240V (2 flat blades)	Input: 100~240V (2 round pins)	Input: 100~240V (3 flat blades UK type plug)	Input: 100~240V (oblique flat blades)
Supported Country	US/Japan	Europe	UK	Australia
Applied Devices	PoE Class 1, 2 and Class 3 (IEEE802.3af) compliant ACTi devices			

Rackmount Kits

	RMK-2000	RMK-3000
		
Color	Black	Black
Material	Heavy-duty steel	Heavy-duty steel
Max. Number of Device Supported	8	8
Cooling Fan	8 (60 x 60 x 25 mm) (2.36" x 2.36" x 0.98")	N/A
Power for Fan	Input : 100-240 Vac AC-DC adapter Output: 12 Vdc / 1.5 A	N/A
Dimension (W x D x H)	505.4 x 216.25 x 176.3 mm (19.90" x 8.52" x 6.95") Rack-mountable (4U)	481.6 x 200.1 x 177 mm (18.98" x 7.88" x 6.97") Rack-mountable (4U)
Weight	7.5 kg (16.53 lb)	3.5 kg (7.72 lb)
Applied Devices	ACD-2000Q, ACD-2100 ACD-3100, TCD-2100	ACD-2000Q, ACD-2100 ACD-3100, TCD-2100
Front-Bezel	<ul style="list-style-type: none"> R306-00004-000 (For ACD-2100 / ACD-2000Q / ACD-3100) R306-00007-000 (For General) 	<ul style="list-style-type: none"> R306-00014-000 (For ACD-2100 / ACD-2000Q / ACD-3100) R306-00009-000 (For General)

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