

AV2116DN/AV3116DN

Full HD 1080p and 3-Megapixel Compact H.264 WDR IP MegaVideo® Camera

Arecont Vision
megapixel technology...
beyond imagination

AV2116DNv1 Full HD 1080p WDR Day/Night

AV3116DNv1 3MP WDR Day/Night



The **True Wide Dynamic Range** Camera

WDR up to **100dB** Allowing Users to
See Clearly in Shaded and Bright Light
Conditions Simultaneously

Binned Mode Improves Low-Light
Performance in 3MP Versions

Arecont Vision Advantages:

- True Wide Dynamic Range Control
- True Day/Night Functionality with Removeable IR Cut Filter
- Dual Encoder H.264/MJPEG
- The Fastest Frame Rates on the Market
- Privacy Mask, Motion Detection and Flexible Cropping
- PSIA and ONVIF Conformant
- New User Friendly Web-Page
- Bit Rate Control to Control Bandwidth
- PoE and Auxiliary Power: 12-48V DC/24V AC
- Forensic Zooming
- Compact Package



Specification sheets subject to change without notice.

Made in the USA



Model Numbers

AV2116DNv1 Full HD 1080p Wide Dynamic Range, Day/Night
AV3116DNv1 3MP Wide Dynamic Range, Day/Night

Imaging

- 2.07-megapixel effective CMOS image sensor (AV2116)
- 3-megapixel CMOS image sensor (AV3116)
- 1/3.2" optical format
- 2.2 μ m pixel pitch
- Progressive Scan
- Minimum illumination of:
 - Color (non-binned): 0.3 Lux @ F1.4
 - Color (binned): 0.15 Lux @ F1.4
 - Day/Night: 0 Lux, IR sensitive
- Wide Dynamic range up to 100 dB
- Maximum SNR 49 dB

Full Field-of-View (FOV) Resolution

Mode Numbers	Full FOV Resolution	1/4 Resolution
AV2116	1080p 1920 (H) x 1080 (V)	960 (H) x 540 (V)
AV3116	3MP 2048 (H) x 1536 (V)	1024 (H) x 768 (V)

Cropped (FOV) Resolution

Flexible Cropping - Crop to 2 pixels in H.264 and 1 pixel in JPEG

- 1920x1200 WUXG (AV3116)
- 1920x1080 HDTV - 1080p (AV3116)
- 1600x1200 2MP (AV3116)
- 1280x1024 1.3MP
- 1280x720 HDTV - 720p
- 640x480 VGA

Data Transmission

- Video frame rate up to:
 - 21fps @ 2048x1536 (AV3116)
 - 31fps @ 1600x1200 (AV3116)
 - 30fps @ 1920x1080
 - 41fps @ 1280x1024
- Video frame in binned mode up to:
 - 21fps @ 1024x768 (AV3116)
 - 27fps @ 800x600 (AV3116)
 - 31fps @ 860x540 (AV3116)
 - 32fps @ 640x512 (AV3116)
- Compression type
 - H.264 (MPEG-4, Part 10)/Motion JPEG
 - 21 levels of quality
- TFTP, HTTP, RTSP, RTP/TCP, RTP/UDP image transmission protocols
- 100Base-T Ethernet Network Interface
- Multi-streaming: 8 non-identical streams

Electrical

- General purpose opto-coupled input and output
- Power over Ethernet (PoE): PoE 802.3af for camera
- Auxiliary power 12-48V DC, 24V AC
- Power consumption: 5.43 Watts maximum

Compliance

- Class A FCC, Part 15; EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3 RoHS, REACH
- CE Mark, UL Listed

Programmability

- Wide dynamic range switch control
- Binned Mode (AV3116)
- Flexible cropping
- On-camera real-time motion detection and privacy mask with 1024 detection zones
- Backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image flip: 180° rotation
- Resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264
- Programmable shutter speed to help control motion blur
- MoonLight™ Mode: extended exposure and noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Simultaneous delivery of full field-of-view and zoomed images
- Bandwidth and storage savings by running at 1/4 resolution
- Bit rate and bandwidth limitation control

Industry Standard

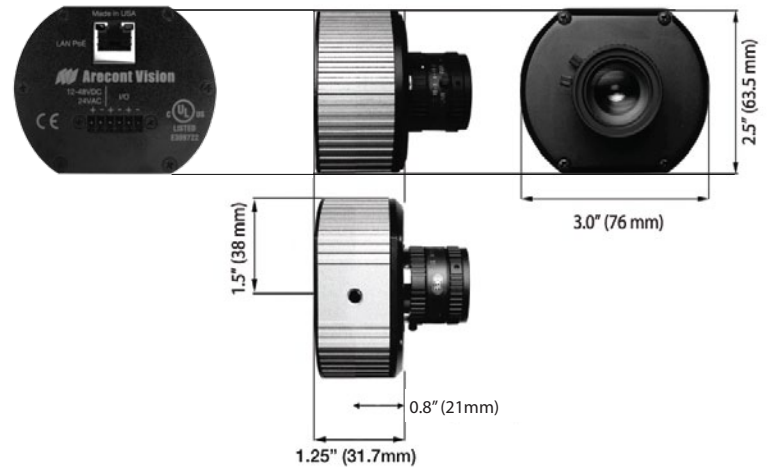
- PSIA and ONVIF Conformant

Environmental

- Operating temperature -5°C (23°F) to +50°C (122°F)
- Stable image temperature 0°C (32°F) to +50°C (122°F)
- Storage temperature -20°C (-4°F) to +60°C (140°F)
- Humidity 0% to 90% (non-condensing)

Mechanical

- 3" W (76mm) x 2.5" H (63.5mm) x 1.25" D (31.7mm) (w/o lens)
- 5.8oz (164 grams) w/o lens
- C/CS lens mount



Accessories

- HSG2: Outdoor IP67 housing with heater and dual fans
- D4SO: Outdoor 4" IP66, IK-10, dome housing

Recommended Lenses

Manufacturer	Lenses	Focal Length (mm)	Format F-Stop	IR Coated	Horizontal FOV			
					AV3116DN		AV2116DN	
					Wide	Tele	Wide	Tele
Arecont Vision	MPL33-11	3.3-10.5	1/2.5", F1.4	No	78°	24°	73°	22°
Computar	T3Z0312CS-MPIR	3-8	1/3", F1.2	Yes	85°	33°	79.6°	30.9°

*Other MPL lenses not recommended for use with WDR cameras.