

AV2116/AV3116

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



AV2116 Full HD 1080p WDR Color
AV2116DN Full HD 1080p WDR Day/Night

AV3116 3MP WDR Color
AV3116DN 3MP WDR Day/Night



The **True Wide Dynamic Range** Camera

WDR Range 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:

- Dual Encoder H.264 (MPEG Part 10) and MJPEG
- PSIA and ONVIF Compliance
- Privacy Mask
- The Fast Frame Rate are on the Market
- Extended Motion Detection Grid
- Flexible Cropping
- Bit Rate Control
- Multi-Streaming
- Forensic Zooming
- Compact Package
- Color and Day/Night versions
- PoE and Auxiliary power: 12-48 VDC/ 24VAC
- True Day/Night Functionality with Removeable IR Cut Filter (DN Versions)



Specification sheets subject to change without notice

Made in USA



Model Numbers:

- AV2116** Full HD 1080p Wide Dynamic Range & Color
AV2116DN Full HD 1080p Wide Dynamic Range & Day/Night
AV3116 3MP Wide Dynamic Range & Color
AV3116DN 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
- Dynamic range up to 100 dB
- Maximum SNR 49 dB

Full Field of View (FOV) Resolution

Model 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 & 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
 - 47fps @ 1024x768 (AV3116)
 - 64fps @ 800x600 (AV3116)
 - 64fps @ 860x540 (AV3116)
 - 64fps @ 640x512 (AV3116)
- Compression type
 - H.264 (MPEG4, 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 Information

- 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
- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time motion detection and privacy mask with 1024 detection zones
- Auto backlight compensation and auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image flip - 180 degree rotation
- Resolution windowing down to 1x1 pixel for JPEG & 2x2 pixels for H.264
- Programmable shutter speed to help control motion blur
- MoonLight™ mode - extended exposure & proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Simultaneous delivery of full field of view & zoomed images
- Bandwidth & storage savings by running at 1/4 resolution
- Bit rate and bandwidth limitation control

Industry standard

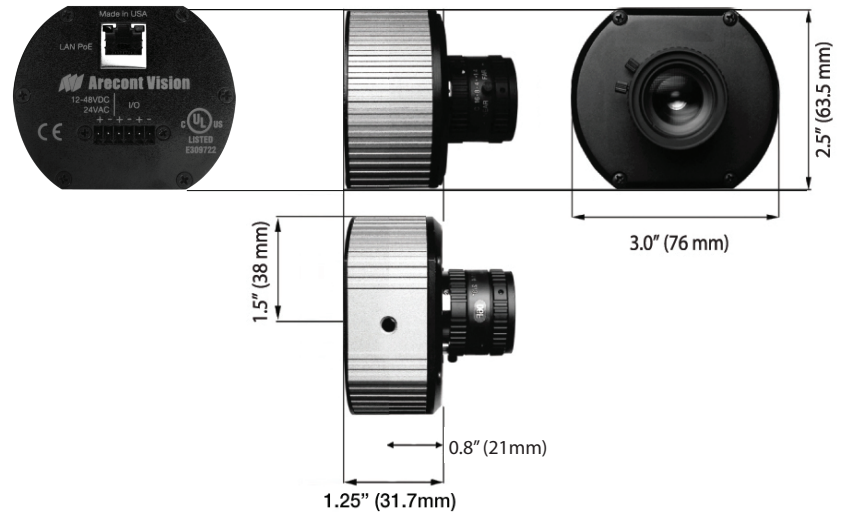
- PSIA compliance and ONVIF compliance

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

**Accessories**

- HSG2 : Outdoor Environmental Housing w/Heater/Blower

Recommended Lenses

- Computar: T3Z0312CS-MPIR: 3-8mm, 1/3", F1.2, H-FOV: 35°-91°
- Computar: AG3Z3112CS-MPIR 3.1-8mm, 1/2.7", F1.2, H-FOV: 35°-91°
- Computar: A4Z1214CS-MPIR 12.5-50mm, 1/2.7", F1.4
- Fujinon: YV2.7x2.2SR4A-2 , 2.2-6mm, 1/2.8", F1.3, H-FOV: 43°-113°
- Fujinon: YV2.8x2.8SR4A-2 , 2.8-8mm, 1/2.8", F1.3, H-FOV: 33°-93°
- Tamron: M13VM288IR, 2.8-8mm, 1/2.8", F1.3, H-FOV: 24°-92°
- MPL series

Note: Using MPL series lens on WDR camera may resulting in purple fringing issue with high-contrast boundary areas.
Please close iris to reduce purple fringing issue.