

AV12186DN

12-Megapixel H.264 WDR 180° Panoramic SurroundVideo® IP Camera

Arecont Vision
megapixel technology...
beyond imagination

AV12186DN

SurroundVideo® WDR Day/Night Model



World's First 12MP
Wide Dynamic Range
Panoramic Camera

WDR up to 100dB Allowing Users to
See Clearly in Shaded and Bright
Areas of the Scene Simultaneously

Binning Mode Improves Low-Light
Performance

Arecont Vision Advantages:

- All-in-One H.264 SurroundVideo® Solution
- True Wide Dynamic Range Imaging
- True Day/Night Functionality with Removable IR Cut Filter
- Dual Encoder H.264/MJPEG
- Privacy Mask, Motion Detection and Flexible Cropping
- Forensic Zooming
- Bit Rate Control to Limit Bandwidth
- Binning Mode to Increase Sensitivity
- Multi-Streaming
- IP66 and Vandal-Resistant Housing with IK-10 Rated Dome
- Easily Adjustable 2-Axis Camera Gimbal with 360° Pan and 90° Tilt
- Mounting Options Include Pendant Mount, Wall Mount, Corner Mount, Pole Mount, Flush Mount Junction Box Adapter and Electrical Box Adapter
- ONVIF Conformant
- PoE and Auxiliary Power: 12-48V DC/24V AC
- Reduced Overall System Cost



Specification sheets subject to change without notice.

Made in the USA



Camera Imaging

Model	AV12186DN	
Image Sensor	4 x 3MP CMOS WDR	
Optical Format	1/3.2" Progressive Scan	
Pixel Pitch	2.2µm	
Minimum Illumination	Color	0.5 Lux @ F2.0
	Color Binning	0.25 Lux @ F2.0
	Day/Night	0.025 Lux, IR sensitive
Full Field of View (FOV) Resolution	Total	8192 H x 1536 V
	Per Sensor	2048 H x 1536 V
1/4 Resolution	Total	4096 H x 768 V
	Per Sensor	1024 H x 768 V
Dynamic Range	Up to 100dB at Full Resolution	
Lens	M12 small size lens, true 3MP lens	
Video Frame Rates	Max	5.2fps (8192 x 1536)
		16.7fps (4096 x 768)

Data Transmission

Compression Type	H.264 (MPEG-4, Part 10)/Motion JPEG
	21 levels of quality
Network Protocols	RTSP, RTP/TCP, RTP/UDP, HTTP, DHCP, TFTP
Network Interface	100Base-T Ethernet
Data Rate	Bit rate control from 100Kbps–10Mbps
	Unthrottled data rate up to 50Mbps
Multi-Streaming	8 non-identical streams (2 per sensor)

Programmability

Auto adjustment between WDR and LDR modes
Binning Mode
Privacy mask
Flexible Cropping (resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264)
+/-5° Digital Vertical Alignment to adjust images
On-camera real-time motion detection with up to 1024 detection zones (per sensor)
Auto multi-matrix white balance
50/60Hz selectable flicker control
Electronic pan, tilt, zoom (PTZ)
Programmable shutter speed to help control motion blur
MoonLight™ Mode: extended exposure and proprietary 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 limit control

Compliance

Industry Standard	ONVIF Conformant
Listings	UL (CB)
FCC Compliance	47 CFR 15 Class A
Environmental	RoHS, REACH, WEEE
Markings	(CE) EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1
Mechanical	IK-10 (EN62262), IP66 (EN60529)

Environmental

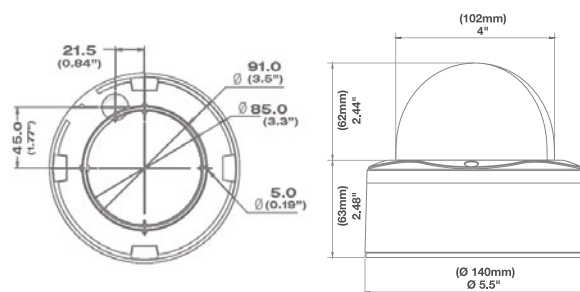
Protection Ratings	IP66 water/dust protection rating
	IK-10 vandal-resistant polycarbonate dome
Operating temperature	-30°C (-22°F) to +50°C (122°F)
Humidity	0% to 90% (non-condensing)
Stable image temperature	0°C (32°F) to +50°C (122°F)
Storage temperature	-30°C (-22°F) to +60°C (140°F)

Electrical

Input/Output	General purpose opto-coupled
Power Over Ethernet	PoE 802.3af, Class 3
Auxiliary Power	12–48V DC and 24V AC
Max Power Consumption	14 Watts Max (Auxiliary Power)

Mechanical

Casing	Die-cast aluminum chassis with 4" polycarbonate dome bubble	
	IP66 weather proof standard	
	Vandal resistant, IK-10 rated	
Gimbal	Easily adjustable, 2-axis w/360° pan and 90° tilt	
Total Unit Dimensions	Unit	Ø 5.5" (140mm) x 4.9" H (125mm)
	Bubble Only	Ø 4.0" (102mm) x 2.4" H (62mm)
Weight	Unit	2.8lbs (1.27kg)
	Packaged	3.4lbs (1.54kg)



Accessories

MD-WMT2	Wall Mount w/1.5" NPT
SV-EBA	Electrical Box Adapter for MD-WMT2
MD-CAP	Wall Mount Cap Only w/1.5" NPT
MD-CMT	Pendant Mount
MD-FMA	Flush Mount
MD-CRMA	Corner Mount Adapter
MD-PMA	Pole Mount Adapter
MD-EBA	Electrical Box Adapter
SV-JBA	Junction Box Adapter