



Celebrating 10 Years of Leading the Way in Megapixel Video

SurroundVideo®

180° and 360° Coverage in an All-in-One Vandal Resistant Dome

SurroundVideo® Cameras

8MP Panoramic 180°	8MP Panoramic 360°	20MP Panoramic 180°	20MP Panoramic 360°	40MP Panoramic 180°
AV8185CO	AV8365CO	AV20185CO	AV20365CO	AV40185DN
AV8185CO-HB	AV8365CO-HB	AV20185CO-HB	AV 20365CO-HB	AV40185DN-HB
AV8185DN	AV8365DN	AV20185DN	AV20365DN	
AV8185DN-HB	AV8365DN-HB	AV20185DN-HB	AV20365DN-HB	





SurroundVideo® panoramic view megapixel IP cameras provide all-in-one solutions for wide area video surveillance. Four sensors and lenses are housed in a vandal-resistant IP66 dome enclosure. The cameras are available in 180° and 360° configurations and resolutions of 8-, 20- and 40-megapixels (MP). A single SurroundVideo® panoramic camera can replace multiple conventional cameras with the ability to zoom into multiple regions of interest. Their return on investment is easily measured any way you view it.

180° Panoramic

360° Panoramic



180° Panoramic at 8, 20 and 40MP



360° Panoramio at 8 and 20MP



Dual Encoder H.264/MJPEG



True Day/Night



Pixel Binning for Superior Low Light Performance (20 and 40MP)



All-in-One Dome Solution with Integrated Lens



Vandal and Weather Proof IK-10 and IP66 Rated

Features:

- Industry's First 8MP, 20MP and 40MP Panoramic Megapixel Cameras
- Dual Encoder H.264/MJPEG
- Indoor/Outdoor IP66, Vandal Resistant and IK-10 Rated Dome
- Binning Mode to Increase Sensitivity (20MP and 40MP)
- · Reduced Overall System Cost
- Easily Adjustable 2-Axis Camera Gimbal with 360° Pan and 90° Tilt
- +/- 5 ° Electrical Vertical Alignment to Locate Each Sensor Position (180° Series)
- +/- 10° Mechanical Tilt Adjustment to Locate Each Sensor Angle (360° Series)
- · Bit Rate Control, Privacy Mask and Multi-Streaming
- Forensic Zooming
- PoE and Auxiliary Power: 12-48V DC/24V AC
- Complete Mounting Options

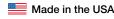
Model Specific Features

AV8185	8MP	180°	6fps	
AV8365	8MP	360°	6fps	
AV20185	20MP	180°	3.5fps	Binning
AV20365	20MP	360°	3.5fps	Binning
AV40185	40MP	180°	1.5fps	Binning

Build-to-Order Options

со	Color
DN	Day/Night
-НВ	Heater & Blower







Camera Imaging Specifications

Model		AV8185	AV8365	AV20185	AV20365	AV40185
Image Sensor (CMOS)		8MP = 2MP x 4	8MP = 2MP x 4	20MP = 5MP x 4	20MP = 5MP x 4	40MP = 10MP x 4
H-FOV		180°	360°	180°	360°	180°
Optical Format		1/2"	1/2"	1/2.5"	1/2.5"	1/2.3"
Pixel Pitch		4.2µm	4.2µm	2.2µm	2.2µm	1.67µm
	Color	0.1 Lux	0.1 Lux	0.3 Lux	0.3 Lux	0.42 Lux
Minimum Illumination	Color Binning	-	-	0.15 Lux	0.15 Lux	0.21 Lux
	Day/Night (-DN Version)	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive
Full FOV Resolution	Total	6400 H x 1200 V	6400 H x 1200 V	10240 H x 1920 V	10240 H x 1920 V	14592 H x 2752 V
ruii FOV Resolution	Per Sensor	1600 H x 1200 V	1600 H x 1200 V	2560 H x 1920 V	2560 H x 1920 V	3648 H x 2752 V
1/4	Total	3200 H x 600 V	3200 H x 600 V	5120 H x 960 V	5120 H x 960 V	7296 H x 1376 V
Resolution	Per Sensor	800 H x 600 V	800 H x 600 V	1280 H x 960 V	1280 H x 960 V	1824 H x 1376 V
Dynamic Range		61dB	61dB	70.1dB	70.1dB	57.2dB
Frame Rates	Full Resolution	6fps (6400x1200)	6fps (6400x1200)	3.5fps (10240x1920) 4.2fps (10240x1600)	3.5fps (10240x1920) 4.2fps (10240x1600)	1.5fps (14592x2752)
	1/4 Resolution	-	-	11fps (5120x960)	11fps (5120x960)	5.5fps (7296x1376)
	Binning Mode	-	-	13fps (5120x960)	13fps (5120x960)	6.5fps (7296x1376)
Lens		CS, F1.8, 7.8mm, IR, H-FOV = 47°	CS, F1.8, 3.5mm, IR, H-FOV = 96°	CS, F1.8, 6.2mm, H-FOV = 47°	CS, F1.8, 3.5mm, H-FOV = 96°	CS, F2.4, 7.2mm, H-FOV = 47°

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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	
Multi-Streaming	Non-identical streams (2 per sensor)	

Environmental

Operating temperature	-40°C (-40°F) to +50°C (122°F) w/Heater	
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)	

Programmability

On-camera real-time motion detection and privacy mask with up to 1024 detection zones (per sensor)
Privacy mask
Pixel Binning Mode (20 and 40MP)
+/-5° Digital Vertical Alignment to adjust images
Flexible Cropping (resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264)
Low light noise filter control
Bit rate and bandwidth limitation control
Backlight compensation and auto multi-matrix white balance
50/60Hz selectable flicker control
Electronic pan, tilt, zoom (PTZ) and image flip 180°
Programmable resolution, brightness, saturation, gamma, sharpness, tint
Bandwidth and storage savings by running at 1/4 resolution
Simultaneous delivery of full field-of-view and zoomed images
Programmable shutter speed to help control motion blur

Mechanical

Casing	Die-cast aluminum chassis with 5.5" (140mm) polycarbonate dome bubble		
	IP66 weather proof standard		
	Vandal resistant, IK-10 rated		
Gimbal	Easily adjusta	ble, 2-axis w/360° pan and 90° tilt	
Total Unit Dimensions	Unit	Ø6.9" (175mm) x 6.55" H (166mm)	
	Bubble Only	Ø5.5" (140mm) x 3.4" H (87mm)	
	Packaged	8.5" (215mm) x 8.5" (215mm) x 8.5" (215mm)	
Weight	Unit	3.81 lbs (1.75kg)	
	Packaged	4.63 lbs (2.1kg)	

Compliance

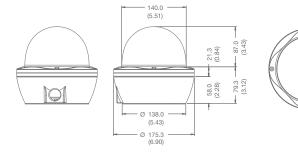
Industry Standard	ONVIF Conformant
Listings	UL (CB)
FCC Compliance	47 CFR 15 Class A
Environmental	RoHS, REACH, WEEE
Markings	(CE) EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1
Mechanical	IK-10 (EN62262), IP66 (EN60529)

Electrical

Input/Output	General purpose opto-coupled		
Power Over Ethernet	PoE 802.3af, Class 3		
Auxiliary Power	12-48V DC, 24V AC		
Power Consumption	AV8185/AV8365	9 Watts DC Power	
	AV20185/AV20365 9 Watts DC Power		
	AV40185	11.7 Watts DC Power	

Heater & Blower Electrical (-HB only)

Voltage Input	12V to 20V DC/24V AC (separate power required)
Power Output	11W Max (DC 12V); 13W Max (AC 24V)
Heater Switch	On: 17°C (62.6°F), Off: 30°C (86°F)
Blower Switch	On: 10°C (50°F), Off: 15°C (59°F)
Blower Switch	On: 50°C (122°F), Off: 45°C (113°F)



Accessories

MD-PMA	Pole Mount Adapter
MD-CRMA	Corner Mount Adapter
SV-CMT	Ceiling Mount (Fit 1.5" NPT)
SV-EBA	Electrical Box Adapter
SV-FMA	Flush Mount Adapter
SV-JBA	Junction Box Adapter (Fit 3/4" NPT Conduit)
SV-WMT	Wall Mount (Fit 1.5" NPT)