

SurroundVideo[®] Omni G3 IP Megapixel Cameras

12 or 20 Megapixel (MP) H.264 All-in-One Remote Focus/Setup Omni-Directional User-Configurable Multi-Sensor True Day/Night Indoor/Outdoor Dome IP Cameras with WDR (Wide Dynamic Range) Models



PRELIMINARY FOR ANNOUNCEMENT 4 APRIL 2017

The SurroundVideo Omni G3, next generation multi-sensor, multi-megapixel camera was built to withstand evolving customer change-requirements. The unique, future-proof platform of the SurroundVideo Omni G3 provides organizations of all sizes the flexibility to deploy a security system that truly matches their video surveillance needs now; and again if requirements change in the future. With its ground-breaking flexibility such as the ability to remotely move each of the four sensors around the patented, magnetic 70+ placement-point Omni track, the 3-axis gimbals for an increased range of motion when positioning the sensors, and the ability to interchange the remote focus modular lenses for a customized field of view, the SurroundVideo Omni G3 provides customers with a future-proof investment. 180°, 270°, and 360° presets make installation easy, or set remotely to your choice.

The SurroundVideo Omni G3 multi-megapixel camera series features a choice of 12- or 20-megapixel resolution options. These cameras provide an all-in-one solution for capturing wide area video surveillance while maximizing the field-of-view and reducing the total number of cameras required saving installers time and end users money.

Field Programmable Gate Array (FPGA) and Arecont Vision Massively Parallel Image Processing architecture provide a cyber-hardened platform that supports firmware updates for security or new features/capabilities.

Regardless of time-of-day, this camera is ideal for applications with challenging lighting conditions. The series combines a day/night mechanical IR cut filter for the highest image quality at any time of day.

For applications with bright or over saturated lighting conditions, optional wide dynamic range delivers up to 100dB at full resolution and is available on select 12MP models. For applications with poor low lighting conditions, Binning Mode increases the camera's low light performance by combining pixels so that more light can be collected.

Once mounted, the operator can quickly focus and position the camera remotely, eliminating the need to adjust the camera on-site. No more hassle individually installing multiple cameras to cover a wide area, manually focusing lenses, or risk missing critical information.

SurroundVideo Omni G3 is designed for demanding environments. Subjected and certified to rigorous dust and water tests, the IP66 rating, and its extended operating temperature range make it ideal for outdoor applications. The IK-10 rated, rugged dome housing is perfect for deterring vandals since it can withstand the equivalent of 55 kg (120 lbs) of force.

SurroundVideo Omni G3 offers advanced streaming capabilities and is designed on an efficient H.264 encoding platform capable of delivering high quality video without straining the network. Power can be supplied via a single Power-over-Ethernet compliant network cable or with power from a 18-48V DC/24V AC power supply.

The camera's interface allows for an intuitive, fast, and easy configuration; while the Free AV IP Utility tool allows users to quickly configure multiple cameras at one time.



Interchangeable Lenses with Remote Focus Module



Omni-Directional Track with 4 Customizable Sensors



270° FOV Capable



Wide Dynamic Range on Select 12MP Models



True Day/Night with IR Cut Filter



Pixel Binning Mode



Ultra Low Profile Design



3-Axis Gimbal



Impact / Weather Resistant IK-10 and IP66 Rated

SurroundVideo® Omni G3 IP Megapixel Cameras

Camera Specifications

Model							
Image Sensor		4 x 3MP CMOS		4 x 3MP CMOS		4 x 5MP CMOS	
Optical Format		1/3"		1/3.2"		1/2.5"	
Pixel Pitch		2.2µm		2.2µm		2.2µm	
Minimum Illumination	Color (Day Mode)	0.2 Lux		0.2 Lux		0.3 Lux	
	Color Binning (Day Mode)	0.1 Lux		0.1 Lux		0.15 Lux	
	B/W (Night Mode)	0.02 Lux, IR sensitive		0.02 Lux, IR sensitive		0.03 Lux, IR sensitive	
Full FOV Resolution	Total	8192 H x 1536 V		8192 H x 1536 V		10240 H x 1920 V	
	Per Sensor	2048 H x 1536 V		2048 H x 1536 V		2560 H x 1920 V	
1/4 Resolution	Total	4096 H x 768 V		4096 H x 768 V		5120 H x 960 V	
	Per Sensor	1024 H x 768 V		1024 H x 768 V		1280 H x 960 V	
Dynamic Range		69.5dB		100dB		70.1dB	
Frame Rates	At Max Resolution	10fps (8192x1536)		10fps (8192x1536)		7fps (10240x1920)	
	1/4 Resolution	14fps (4096x768)		14fps (4096x768)		10fps (5120x960)	
	Binning Mode	29fps (4096x768)		14fps (4096x768)		24fps (5120x960)	
Lens	2.8mm Lens Option (-28 Models)	2.8mm, F1.8, H-FOV = 88°		2.8mm, F1.8, H-FOV = 88°		2.8mm, F1.6, H-FOV = 114°	
	8mm Lens Option (-08 Models)	8mm, F1.6, H-FOV = 33°		8mm, F1.6, H-FOV = 33°		8mm, F1.6, H-FOV = 43°	

Programmability

Optics	Remote focus
	Pixel Binning Mode
Picture-in-Picture	Simultaneous delivery of full field-of-view and zoomed images
Programmable Shutter Speed	Controls motion blur, 1ms-500ms
Motion Detection	Real-time, 1024 detection zones
Privacy Masking	Unlimited
MoonLight™ Mode	Extended exposure and noise cancellation
Flexible Cropping	Resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264
Backlight Compensation	Auto multi-matrix white balance
Flicker Control	50/60Hz selectable
Wide Dynamic Range	Auto switch control adjustment between WDR and LDR modes (WDR models)
Efficiency	Bit rate and bandwidth limitation control
	Bandwidth and storage savings by running at 1/4 resolution
Sharpness	Selectable enhancement level
Miscellaneous	Programmable resolution, brightness, saturation, gamma, tint
	Simultaneous delivery of full field-of-view and zoomed images
	Electronic pan, tilt, zoom (PTZ)
	Auto Exposure (AE) and Gain Control (AGC) > 120dB
	Programmable shutter speed to help control motion blur

SituationalPlus™

Model	Lens	View Angle	Distance to pixel density (ft.)(m)		
			30ppf (98ppm)	60ppf (197ppm)	90ppf (295ppm)
AV12275DN-28	MPM2.8A	89°	34' (10.4m)	15.5' (4.7m)	8' (2.4m)
AV12275DN-08	MPM8.0	33°	114.5' (34.9m)	56' (17.1m)	37.5' (11.4m)
AV12276DN-28	MPM2.8A	89°	34' (10.4m)	15.5' (4.7m)	8' (2.4m)
AV12276DN-08	MPM8.0	33°	114.5' (34.9m)	56' (17.1m)	37.5' (11.4m)
AV20275DN-28	MPM2.8A	113°	27' (8.2m)	12' (3.7m)	5' (1.5m)
AV20275DN-08	MPM8.0	42°	114' (34.7m)	56' (17.1m)	36' (11.0m)

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, IPv4, IPv6, QoS
Network Interface	100Base-T Ethernet
Multi-Streaming	8 non-identical streams

Compliance

Listings	UL (CB)
FCC Compliance	47 CFR 15 Class A
Environmental	RoHS, REACH, WEEE
Markings	(CE) EN 55022:2010 Class A, EN 55024:2010, EN 61000-3-2:2006+A1:2009+A2:2009, EN61000-3-3: 2008, EN60950-1:2006+A11:2009+A12:2011, (UL) IEC 60950-1 (ed. 2) and IEC 60950-22 (ed. 1)
CoO	Made in the USA

Environmental

Operating temperature	-40°C (-40°F) to +50°C (122°F)
Humidity	0% to 90% (non-condensing)
Storage temperature	-40°C (-40°F) to +60°C (140°F)

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