

360° Explosive Environment Cameras

The next step in 360° total situational awareness

5MP or 12MP sensor and no moving parts

5MP sensor

- Up to 30 fps video stream at 1 MP and 1/4 MP
- 0.2 lux minimum illumination

12MP high-resolution sensor

- Up to 30 fps at 2.0 MP
- 0.1 lux minimum illumination
- Constant 360° surveillance with no blind spots
- No moving parts and silent operation
- PoE, 12 VDC or mains powered models
- 3-years warranty

Advanced features

- · Local SD card slot for event recording
- Configurable privacy regions
- Polygonal video motion detection regions
- Local alarm digital input and output
- Audio microphone input

Uniquely suited for extreme environments

- Robust 316L stainless steel construction
- Designed for demanding industrial environments
- ATEX approved for Gas Zone 1 and Zone 2
- ATEX approved for Dust Zone 21 and Zone 22
- IEC and IECEx certified
- IP66, IP67, IP68 rated
- Optional heater / fiber transceiver / integrated 115 VAC or 230 VAC PSU
- Range of accessories provide multiple mounting possibilities including wall, pole and ceiling

Applications

- · Industrial and chemical plants
- · Offshore and onshore environments
- Ports and marine applications
- Food and processing area











Model

DEX12-EVO

Product Ordering Codes

EVO-05-EIP	EVO-12-EIP	Indoor
EVO-05-EOA	EVO-12-EOA	Outdoor
EVO-05-EOE	EVO-12-EOE	Outdoor
EVO-05-ESA	EVO-12-ESA	
EVO-05-ESE	EVO-12-ESE	O
EVO-05-EMA	EVO-12-EMA	Outdoor Extreme
EVO-05-EME	EVO-12-EME	

Extensive VMS/NVR platform integration with Oncam SDK

- Market leading Oncam 3D dewarping software
- Full Live and retrospective dewarping available
- Camera features are accessible through VMS platforms
- Simultaneous multiple video streams
- 10x digital zoom capability through client-side dewarping
- H.264 / MJPEG streaming with multiple quality levels
- Optimizes bandwidth and storage utilization
- Intuitive web-based interface for viewing and configuration
- Supported by major VMS / NVR systems
- ONVIF Profile S conformant



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General	EVO-05	EVO-12		
Lens Field of View	180° Horizontal, 168° Vertical	180° Horizontal, 180° Vertical		
Image Sensor	5 MP, 2592 H x 1944 V pixels and 1/2.5-inch CMOS Sensor	12.4 MP, 4072 H x 3046 V pixels and 1/2.3-inch Sony CMOS Sensor		
Lens	185° / F2.0			
Minimum Illumination	0.2 lux = 50 IRE F/2.0	0.1 lux = 50 IRE F/2.0		
Frame Rate	30 fps for 1 MP and ¼ MP resolution 15 fps for 2 MP resolution 10 fps for 4 MP full resolution	12 fps for maximum resolution		
Video Motion Detection	8 configurable regions			
External Input	1x contact input			
External Output	1x contact output			
Security	Configurable password protection			
Advanced Event Management	Triggered by motion, external input or HTTP event, result configurable, external output, FTP/SMTP upload and local recording			
Networking	TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP and RSTP			
Privacy Regions	10 configurable privacy regions			
SD Card	Built-in SD card slot. Supports cards up to 128 GB capacity. Speed class 10 or higher required.			
Audio Connections	Audio In through 3.5 mm jack, RTSP using G711 codec or ONVIF S			
Audio Input Level	Mic input level range is approximately 5 mV to 50 mV			
Analog Video Out	Test port for production, not available in normal operation			
White Balance Range	Auto White Balance (Range = approximately 2500 K ~ 8000 K)			
Video				

Video			
Video Stream 1 Codec	H.264 High, Level 5 / MJPEG (streams configurable) H.264 in 9.6 MP, 6 MP, 4 MP, 2 MP		
Video Stream 1 Compression Level	Multi-levels of compression and frame rate adjustment		
Video Stream 1 Pixel Resolution	Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), ½ MP (528 x 480) Fisheyes at: 9.6 MP (3200 x 300 6 MP (2528 x 2376), 4 MP (2080 x 2 MP (1472 x 1384)		
Video Stream 2 Codec	H.264 High, Level 5 / MJPEG (streams configurable) H.264 in 1/4 MP		
Video Stream 2 Compression Level	Multi-levels of compression and frame rate adjustment		
Video Stream 2 Pixel Resolution	Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1/4 MP (528 x 480) Fisheyes at 1/4 MP (544 x 512		
Video Stream 3 Codec	MJPEG	MJPEG in 1/4 MP	
Video Stream 3 Compression Level	Multi-levels of compression and frame rate adjustment		
Video Stream 3 Pixel Resolution	Fisheye at: 1/4 MP (528 x 480)	Fisheyes at 1/4 MP (544 x 512)	
* VCam Stream 4, 5, 6, 7 Codec	N/A	H.264	
* VCam Stream 4, 5, 6, 7 Compression Level	N/A	Multi-levels of compression and frame rate adjustment	
* VCam Stream 4, 5, 6, 7 Pixel Resolution	N/A	4x independent onboard dewarped VCams at 1 MP (1280 x 720), 1/4 MP (640 x 480)	
Maximum Frame Rate	30 fps		
Image Control	Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount		
Image Enhancement	Electronic WDR 60dB		
PTZ Functionality	10x zoom with Oncam 3D client-side dewarping software		
VMS / NVR Support	Contact Oncam Sales for the supported VMS / NVR list		
Web Browser Compatibility	Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functionality		
Unicast	Up to 20 simultaneous users depending on the resolution settings		
Multicast	Supported for H.264 main camera stream		
Bit Rate Control	Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control	Options include Constant Bit Rate Control and Constant Quality Control	

^{*} Video Stream 2 and VCams cannot be used simultaneously.



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	Indoor	Outo	door		Outdoor	Extreme		
Electrical	EVO-05-EIP	EVO-05-EOA	EVO-05-EOE	EVO-05-ESA	EVO-05-ESE	EVO-05-EMA	EVO-05-EME	
	EVO-12-EIP	EVO-12-EOA	EVO-12-EOE	EVO-12-ESA	EVO-12-ESE	EVO-12-EMA	EVO-12-EME	
Power Input Requirements (housing)	POE	115 VAC	230 VAC	115 VAC	230 VAC	115 VAC	230 VAC	
Power Consumption	8 W	8 W + 15	W Heater		12 W + 15 W Heater			
Fiber Optic Convertor Onboard		N/A Single Mode		Mode	Multi-Mode			
Heater	N/A			15 W Thermosta	tically Controlled	d		
Power Input (camera module)	12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or Power over Ethernet (PoE), IEEE standard 802.3af							
Ports (camera module)	RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output							
EVO-05 Network Cable Type			CAT5 c	r better for 100E	Base-TX			
EVO-12 Network Cable Type			CAT5 or	better for 1000	Base-TX			
Mechanical								
Camera Mount		Surface mount (with appropriate accessory shown below)						
Weight		7 to 7.5 kg (15.5 to 16.5 lbs), model dependent						
Dimensions (L x W)	Length 253 mm x Ø158 mm (9.96 in. x Ø6.22 in.)							
Housing Material	Stainless Steel 316L							
Housing Entries	Two M20 entries and one M25 entry							
Environmental								
Operating Temperature Range	-20 to +55°C (-4 to +131°F)							
Ingress Protection	IP66, IP67, IP68							
Certifications								
Explosive Atmosphere Approvals	II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T80°C Db							
Certified Temperature Range	-20 to +55°C (-4 to +131°F)							
Other Approvals	CE, IP66/67/68							
Camera Module Approvals	IEEE802.3af, UL, CISPR Class A, FCC, ICES-003							



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Accessories			
	Part Number	Description	
	OBE-07-ESA	Wall Mount Bracket Stainless Steel 316L Weight 0.8 kg (1.76 lb)	
	OBE-08-ESA	Pole Mount Adaptor Ø 50 to 150 mm (1.97 to 5.9 in.) Stainless Steel 316L Weight 0.8 kg (1.76 lb) (Use with Wall Bracket)	
	OBE-09-ESA	Ceiling Mount Bracket 230 mm high (9.1 in.) Stainless steel 316L Weight 4 kg (8.82 lb)	
Carcing	OBE-10-ESA	ExD Installation Toolkit 1 Vice mount tool 1 Strap wrench tool	



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Dimensions

