

Evolution 12

360° Indoor Camera - Recessed

The next step in 360° total situational awareness

12 MP high-resolution sensor

- Constant 360° surveillance and no blind spots
- No moving parts, no maintenance and silent operation
- High quality images in low-light conditions
- 12 fps at 9.6 MP max resolution and up to 30 fps at 2.0 MP
- 0.1 lux minimum illumination
- PoE or 12 VDC powered
- 3-years warranty

Advanced features

- Local 3D dewarping providing 4x Vcams at 1 MP max each
- Local SD card slot for event recording
- Up to 10 configurable privacy regions
- Up to 16 polygonal Video Motion Detection regions
- Local alarm digital input and output
- Audio microphone input

A truly discreet installation

- Super-fast installation
- Ultra low profile, blends into the installation environment
- Suitable for installation in Air Handling / Plenum Spaces
- Spray-paint to match your environment
- Light weight enclosure
- 152 mm (6 in.) drilling hole
- Fits up to 25 mm (1 in.) panel thickness

ONVIF | S



EVO-12-NRD - White
EVO-12-NSD - Black

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 with resolutions from 544 x 512 to 3200 x 3000
- 10x zoom capability through client-side dewarping
- H.264 / MJPEG streaming with multiple quality levels
- Configurable password protection
- Intuitive web-based interface for viewing and configuration
- Supported by major VMS / NVR systems

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Model	EVO-12-NRD (White)	EVO-12-NSD (Black)
General		
Lens Field of View	180° Horizontal, 180° Vertical	
Image Sensor	12 MP, Array Format (Active) 3552 H x 3000 V = 10,656,000 pixels and 1/2.3-inch Sony CMOS sensor	
Lens	185° / F2.0	
Minimum Illumination	0.1 lux = 50 IRE / F2.0	
Frame Rate	12 fps typical at maximum resolution	
Video Motion Detection	16 polygonal regions, configurable response and adjustable characteristics	
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 / Supported IP Protocol	TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP and RSTP	
Privacy	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 and Audio out through 3.5 mm jack, RTSP using G711 codec or ONVIF S	
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 Stream 1 Codec	H.264 in 9.6 MP, 6 MP, 4 MP	
Video Stream 1 Compression Level	Multi-levels of compression adjustment	
Video Stream 1 Pixel Resolution	Fisheyes at: 4 MP (2080 x 1960), 6 MP (2528 x 2376), 9.6 MP (3200 x 3000)	
Video Stream 2 Codec	H.264 in 4 MP, 2 MP, 1 MP and ¼ MP	
Video Stream 2 Compression Level	Multi-levels of compression adjustment	
Video Stream 2 Pixel Resolution	Fisheyes at: ¼ MP (544 x 512), 1 MP (1056 x 992), 2 MP (1472 x 1384), 4 MP (2080 x 1960)	
Video Stream 3 Codec	MJPEG in 4 MP, 2 MP, 1 MP and 1/4 MP	
Video Stream 3 Compression Level	Multi-levels of compression and frame rate adjustment (14 fps max)	
Video Stream 3 Pixel Resolution	Fisheyes at: ¼ MP (544 x 512), 1 MP (1056 x 992), 2 MP (1472 x 1384), 4 MP (2080 x 1960)	
Video Stream 4, 5, 6, 7 Codec	H.264 Only	
Video Stream 4, 5, 6, 7 Compression Level	Multi-levels of compression and frame rate adjustment (up to 30 fps)	
Video Stream 4, 5, 6, 7 Pixel Resolution	4x independent onboard dewarped Vcams at 1/4 MP and 1 MP	
Image Control	Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount	
Image Enhancement	Electronic WDR 60 dB	
PTZ Functionality	10x zoom with Oncam 3D client-side dewarping software	
VMS / NVR Supported	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 resolutions settings	
Multicast	Supported for H.264 main camera stream	
Bit Rate Control	Options include constant bit rate control, capped bit rate control and constant quality control	

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Electrical	
Ports	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
Network Cable Type	CAT5 or better for 100Base-TX
Power Input	12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or Power over Ethernet (PoE), IEEE standard 802.3af
Power Consumption (max)	9.4 W (PoE) / 7.7 W (DC 12 VDC)

Mechanical	
Camera Mount	Indoor Recessed mount
Weight	800 g (1.76 lbs)
Dimensions (Radius x Depth)	174.75 x 66.96 mm (6.88 x 2.636 in.)
Enclosure	Aluminium die-cast base Polycarbonate cover

Environmental	
Operating temperature range	0 to +40° C (-32 to +104° F)
Storage temperature range	0 to +40° C (-32 to +104° F)
Operating Humidity	Up to 98% (In accordance with BS EN 60068-2-30)

Certifications	
Approvals	IEEE802.3af Class 2, EMC (CISPR Class A), FCC, CE, ICES-003, KCC, SASO, GOST, S-MARK, C-TICK, UL2043, UL and cUL-UL60950

Other Related Products	
Hardware / Software Solutions	Oncam SDK integration pack, Evolution 05 MP / 12 MP Camera Range, Evolution Accessories, IP Configuration Tool, 360-degree Viewer and OnVu360 Mobile Apps (iOS, Android)

Frame Rate, Resolution & Storage Needs					
9.6 MP	3200 x 3000	12 fps	Constant bit rate settings	10 Mbits/s	24 hrs = 101 GB **
6 MP	2528 x 2376	14 fps	Constant bit rate settings	7.5 Mbits/s	24 hrs = 76 GB **
4 MP *	2080 x 1960	14 fps	Constant bit rate settings	5 Mbits/s	24 hrs = 51 GB **
2 MP	1472 x 1384	30 fps	Constant bit rate settings	3 Mbits/s	24 hrs = 31 GB **
1x Vcam (1 MP) with 9.6 MP stream	1280 x 768	11 fps	Constant bit rate settings	1.5 Mbits/s	24 hrs = 16 GB **
4x Vcam (1 MP) with 9.6 MP stream	1280 x 768	5 fps	Constant bit rate settings	6.0 Mbits/s	24 hrs = 64 GB **
1x Vcam (VGA) with 9.6 MP stream	640 x 480	12 fps	Constant bit rate settings	0.8 Mbits/s	24 hrs = 1 GB **
4x Vcam (VGA) with 9.6 MP stream	640 x 480	9 fps	Constant bit rate settings	3.2 Mbits/s	24 hrs = 4 GB **

* Factory default settings

** Based on the same scene with constant average light conditions

Note: Values for frame rate, size and bandwidth are approximate and are influenced by compression, quality settings, number of simultaneous viewers and the amount of detail as well as any movement in a scene.

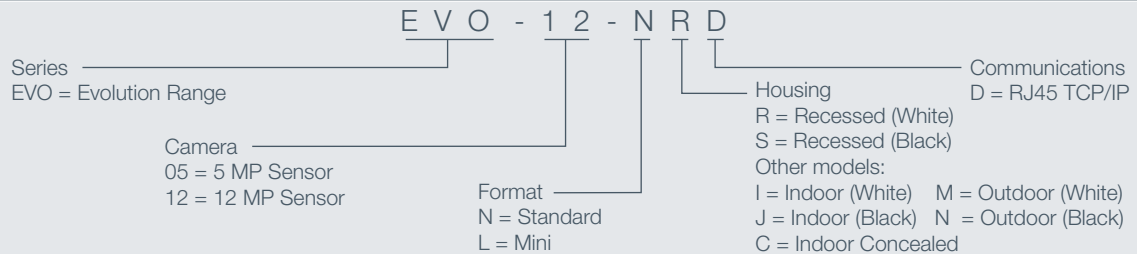
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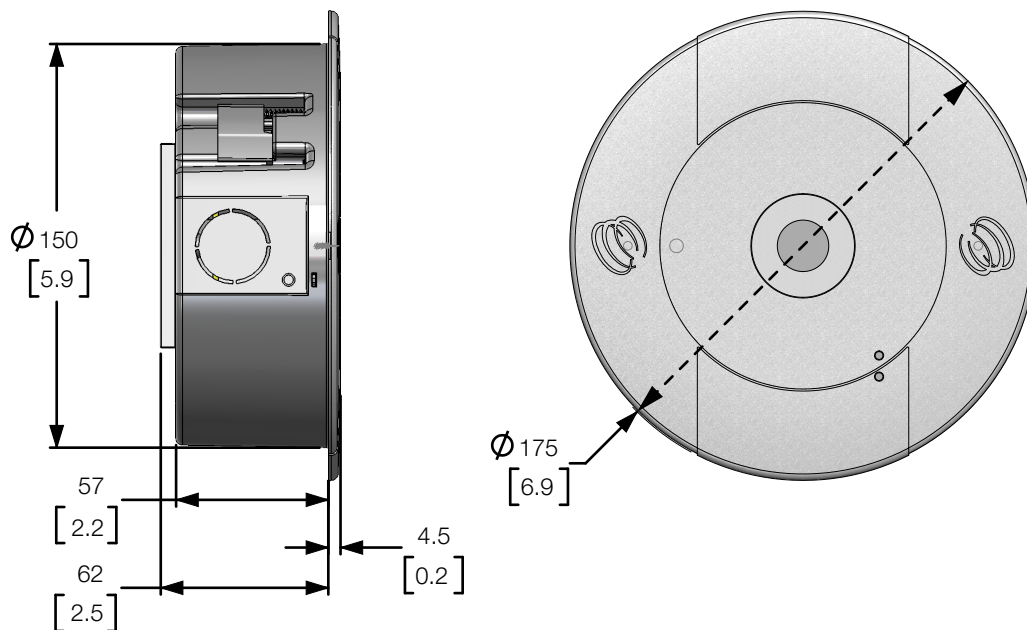
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Ordering



Dimensions



VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE MILLIMETERS.

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EVO-12-N#D-04_DS_2016.08