Evolution 360° Indoor Camera

Taking the next step in 360° total situational awareness



A 360° indoor IP camera with a 5-megapixel sensor and no moving parts

- Constant 360° surveillance; no blind spots
- Silent operation as there are no mechanical parts
- No moving parts means no regular maintenance due to wear and tear
- Light weight enclosure

Whether wall or ceiling mount is required

- Fully supports IEEE802.3af Class 2 Power over Ethernet (PoE)
- Quick and easy installation
- Professional indoor enclosure
- Pleasing aesthetics in either black or white finish
- Minimum illumination 0.2 lux, providing clarity in low lights
- Convenient surface-mounting enclosure
- Suitable for ceiling, wall or table mounted applications
- A range of mounting accessories allows for ceiling, wall, pole and pendant mounting

Onboard SD card and advanced event management

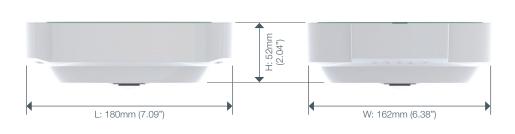
- Onboard SD Card for future local recording feature and advanced event management
- Configurable privacy regions
- Video Motion Detection within defined areas of interest
- Local alarm digital input
- Audio microphone input



Fully integrated with multiple VMS platforms to provide live and retrospective dewarping

- Utilising the market leading Oncam Grandeye Grandeye 3D dewarping software
- Camera features are accessible via VMS platforms
- Optimises bandwidth and storage utilisation
- Simultaneous multiple video streams
- Video streams in multiple resolutions from 528x480 to 2144x1944
- 10 fps typical for full resolution and up to 15 fps for all other resolutions
- H.264/MJPEG streaming with multiple quality levels
- Configurable password protection
- Intuitive web-based interface for viewing and configuration
- Supports major VMS / NVR / HDVR systems





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TECHNICAL SPECIFICATIONS

Model	EVO-05NID (White enclosure)	EVO-05NJD (Black enclosure)			
General					
Field of View	360)°			
Image Sensor	5 megapixel; Array Format (Active) 2592H x 1944V = 5,038,848 pixels; 1/2.5-Inch CMOS Sensor				
Angle of View	180° hemisphere				
Lens	185° 1.6mm / F2.0				
Minimum Illumination	0.2 lux = 50 IRE F/2.0 (6500K)				
Frame Rate	10 fps typical at maximum resolution and up to 15 fps for all other resolutions				
Video Motion Detection	12 regions of interest; VMD; configurable response; 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, (Local recording, future feature via firmware update)				
Networking	TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP, RSTP				
Privacy	10 configurable privacy regions				
SD Card	Built-in SD Card slot (future feature via firmware update)				
Audio Connections	Audio in; Microphone input via 3.5mm jack; via RTSP using G711 codec (µLaw - 8K sample rate), via ONVIF S				
Analogue Video Out	BNC connection – selectab	le between PAL or NTSC			
Signal-to-Noise Ratio	45dB				
White Balance Range	Auto White Balance (Range	= approx. 2500K~8000K)			
Electrical					
Ports	RJ45 for 100Base-TX; 2.1mm DC Input jack; 6-pin 1.5n	nm Phoenix for external I/O, BNC for test video output			
Network Cable Type	CAT5 or better for 100Base-TX				
Power Input	12V, 1.0A (min) "LPS or NEC Class 2" power supply or Power over Ethernet (PoE), IEEE standard 802.3af				
Power Consumption	8W max				
Video					
Video Stream 1 & 2 Codec's	H.264 High, Level 5 / MJPEG	(both streams configurable)			
Video Stream 1 & 2 Compression Level					
Video Stream 1 & 2 Pixel Resolution	Multi-levels of compression adjustment Fisheyes at: ¼ MegaPixel (528x480), 1Mp (1056x960), 2Mp (1488x1360), 4Mp (2144x1944)				
Video Stream 3 Codec	MJPEG				
Video Stream 3	Multi-levels of compression and fra				
Video Stream 3 Pixel Resolution	Fisheye at: ¼ Meg	, , , , , ,			
Image Control	Settings: brightness/contrast/saturation/exposure comp				
Image Enhancement	Wide Dynamic range - Greater than 90db				
VMS / NVR / HDVR supported	Most major VMS / VMS / HDVR systems (contact Oncam Sales for latest list)				
Web Browser Compatibility	Internet Explorer IE9 (with ActiveX plug-in, supplied); Firefox 23; Chrome 29; using Quicktime, minimum vers				
Number of Unicast Users Supported	Up to 20 simultaneous users depending on the resolutions settings				
Bit Rate Control	Selectable options: constant bit rate control; capped bit rate control; constant quality control				
Minimum system requirements					
Processor and Memory	Computer with 1 Ghz 32-hit (v86) or 64-hit (v6	64) processor and with minimum of 512 MR			
Operating System	Computer with 1Ghz 32-bit (x86) or 64-bit (x64) processor and with minimum of 512 MB Windows Vista 32-bit with service pack 2 (SP2) of higher / 64-bit with service pack (SP2) of higher				
Hard Drive Space	Windows Vista 32-bit with service pack 2 (SF2) of higher 7 04-bit with service pack (SF2) of higher Windows Vista 32-bit = minimum 70MB / Windows Vista 64-bit = minimum 120MB				
Display	Super VGA (800 x 600) of higher-resolution monitor with 256 colours				
2.00.03	100Mbits or greater network connection, mouse or compatible pointing device, keyboard				

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Mechanical								
Camera Mo	unt		Surface mount (or with a ranger	of mounting accessories for mounting to	o a pole / wall / pedant)			
Weight			0.58kg (1.08lbs)					
Enclosure			Metal back plate with polycarbonate dome bubble and cover trim enclosure					
Environmen	tal							
Operating Temperature Range			-40 to +55°C (-40 to +131°F)					
Storage temperature range			-40 to +70°C (-40 to +158°F)					
Operating Humidity			Up to 98% (In accordance with BS EN 60068-2-30)					
Ingress Prot	ection rating		IP54-rated – Indoor use only					
Certification	s / Ratings / Patents							
Patents	· ·							
Approvals			IEEE802.3af Class 2; EMC: (CISPR Class A) FCC; CE; ICES-003; Safety: UL60950					
Other related products		0000000						
Other relate	a products	Oncam (Oncam Grandeye SDK integration pack, Evolution Accessories, IP Configuration Tool, 360-degree Viewer, OnVu360					
Frame Rate	, Resolution & Storage N	Needs						
H.264								
4MP *	2144 x 1944	10fps	Constant bit rate settings	5 Mbits/s	24hrs = 54GB **			
2MP	1488 x 1360	15fps	Constant bit rate settings	3 Mbits/s	24hrs = 40GB **			
1MP	1056 x 1056	15fps	Constant bit rate settings	1.5 Mbits/s	24hrs = 16GB **			
1/4MP	528 x 480	15fps	Constant bit rate settings	0.8 Mbits/s	24hrs = 8GB **			
MJPEG								
4MP	2144x1944	10fps	Average file size: 640KB	Average bit rate: 52.4 Mbits/s	24hrs = 552.96GB **			
2MP	1488x1360	15fps	Average file size: 350KB	Average bit rate: 43.0 Mbits/s	24hrs = 453.60GB **			
1MP	1056x1056	15fps	Average file size: 188KB	Average bit rate: 23.1 Mbits/s	24hrs = 243.65GB **			
1/4MP	528x480	15fps	Average file size: 62KB	Average bit rate: 7.6 Mbits/s	24hrs = 80.35GB **			

^{*} Factory / Default settings
** Based on the same scene, with constant average light conditions

Evolution Accessories								
Image	Part	Product Code	Colour	Compatible With				
	Indoor Pendant Mount	OBE-01-IWA	White Black	Evolution Indoor Camera				
49	Pole Mount Bracket	OBE-03-OWA OBE-03-OBA	White Black	Evolution Indoor / Outdoor Camera (to be used with Pendant Mounts)				
	Wall Mount Bracket	OBE-04-OWA	White Black	Evolution Indoor / Outdoor Camera (to be used with Pendant Mounts)				
	Corner Bracket	OBE-05-OWA	White Black	Evolution Outdoor Camera (to be used with Outdoor Pendant Mount)				

