# 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 and output
- Audio microphone input



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

- Utilising the market leading Oncam 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
- 10fps 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
- Integrated with Digital Sentry version 7.5 and other leading VMS platforms







### **TECHNICAL SPECIFICATION**

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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, uPNP				
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 – selectable 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 1.5mm	n 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 (b	ooth streams configurable)			
Video Stream 1 & 2 Compression Level	Multi-levels of compression adjustment				
Video Stream 1 & 2 Pixel Resolution	Fisheyes at: 1/4 MegaPixel (528x480), 1MP (1056x960), 2MP (1488x1360), 4MP (2144x1944)				
Video Stream 3 Codec	MJPEG				
Video Stream 3	Multi-levels of compression and frame rate adjustment (max 15fps)				
Video Stream 3 Pixel Resolution	Fisheye at: 1/4 Megapixel (528x480)				
Image Control	Settings: brightness/contrast/saturation/exposure compensation; compression quality; wall/ceiling/table mount				
Image Enhancement	Wide Dynamic range - Greater than 90db				

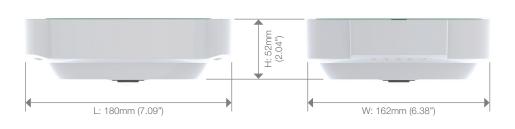


VMS Supported

Bit Rate Control

Web Browser Compatibility

Number of Unicast Users Supported



Integrated with Digital Sentry version 7.5 and other leading VMS platforms

Internet Explorer IE9 (with ActiveX plug-in, supplied); Firefox 23; Chrome 29; using Quicktime, minimum version 7

Up to 20 simultaneous users depending on the resolutions settings

Selectable options; constant bit rate control, capped bit rate control, constant quality control

## **Evolution**

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Minimum System Requirements			
Processor and Memory	Computer with 1Ghz 32-bit (x86) or 64-bit (x64) processor and with minimum of 512 MB		
Operating System	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 = minimum 70MB / Windows Vista 64-bit = minimum 120MB		
Display	Super VGA (800 x 600) of higher-resolution monitor with 256 colours		
Peripherals	100Mbits or greater network connection, mouse or compatible pointing device, keyboard		
Mechanical			
Camera Mount	Surface mount (or with a range of mounting accessories for mounting to a pole / wall / pendant)		
Weight	0.58kg (1.08lbs)		
Enclosure	Metal back plate with polycarbonate dome bubble and cover trim enclosure		
Environmental			
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 Protection Rating	IP54-rated – Indoor use only		
Certifications / Ratings / Patents			

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Patents	15 patents; 15 patents pending; 20 licensed patents
Approvals	IEEE802.3af Class 2; EMC: (CISPR Class A) FCC; CE; ICES-003; KCC; SASO; GOST; S-MARK; C-TICK; UL and cUL-UL60950
Other Related Products	Oncam Grandeye SDK integration pack, Evolution Accessories, IP Configuration Tool, 360-degree Viewer, OnVu360 Mobile Apps (iOS, Android)

Frame Rate, Resolution & Storage 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	1488×1360	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 **	

<sup>\*</sup> Factory / Default settings

<sup>\*\*</sup> 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 OBE-01-IBA	White Black	Evolution Indoor Camera	
	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)	

