

# Evolution

## 360° Indoor Mini Camera

Taking the next step in 360° total situational awareness



ONCAM  
GRANDEYE

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

- Constant 360° surveillance, no blind spots
- Mini enclosure ideal for discreet mounting
- No moving parts means no regular maintenance due to wear and tear and silent operation
- Light weight enclosure

### Whether wall or ceiling mount is required

- Fully supports IEEE802.3af Power over Ethernet (PoE) with flying lead RJ45 Plug
- Quick and easy installation
- Professional indoor enclosure
- Pleasing aesthetics in white finish
- Minimum illumination 0.2 lux, providing clarity in low lights
- Convenient surface-mounting enclosure
- Suitable for ceiling, wall or table mounted applications

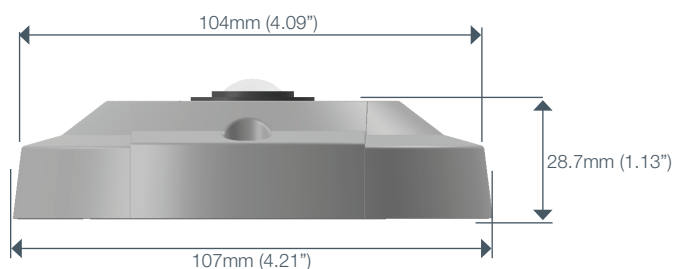
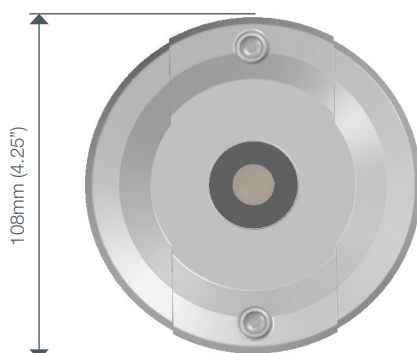
### Onboard Micro SD card and advanced event management

- Onboard Micro SD Card for local recording feature and advanced event management
- Configurable privacy regions
- Video Motion Detection within defined areas of interest



### 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
- 30fps typical for 1MP resolution (1056 x 1056), 10fps typical for full resolution and up to 15fps 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-05LID (White enclosure)
<b>General</b>	
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	30fps typical for 1MP resolution, 10fps 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
Security	Configurable password protection
Advanced Event Management	Triggered by motion, HTTP event, Result configurable; 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
Micro SD Card	Built-in Micro SDXC Card slot (future feature via firmware update)
Signal-to-Noise Ratio	45dB
White Balance Range	Auto White Balance (Range = approx. 2500K-8000K)
<b>Electrical</b>	
Connection	Flying lead - RJ45 plug
Network Cable Type	CAT5 or better for 100Base-TX
Power Input	Power over Ethernet (PoE), IEEE standard 802.3af
Power Consumption	8W max
<b>Video</b>	
Video Stream 1 & 2 Codec's	H.264 High, Level 5 / MJPEG (both streams configurable)
Video Stream 1 & 2 Compression Level	Multi-levels of compression adjustment
Video Stream 1 & 2 Pixel Resolution	Fisheyes at: ¼ 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 15 fps)
Video Stream 3 Pixel Resolution	Fisheye at: ¼ 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 / 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 version 7
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
<b>Minimum system requirements</b>	
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	100Mbps or greater network connection, mouse or compatible pointing device, keyboard
<b>Mechanical</b>	
Camera Mount	Indoor Surface mount
Weight	250gr (0.55lbs)
Enclosure	ABS Thermoplastic

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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 Test Db variant 1 using test methodology BS EN 50155)
Ingress Protection rating	IP42-rated – Indoor use only

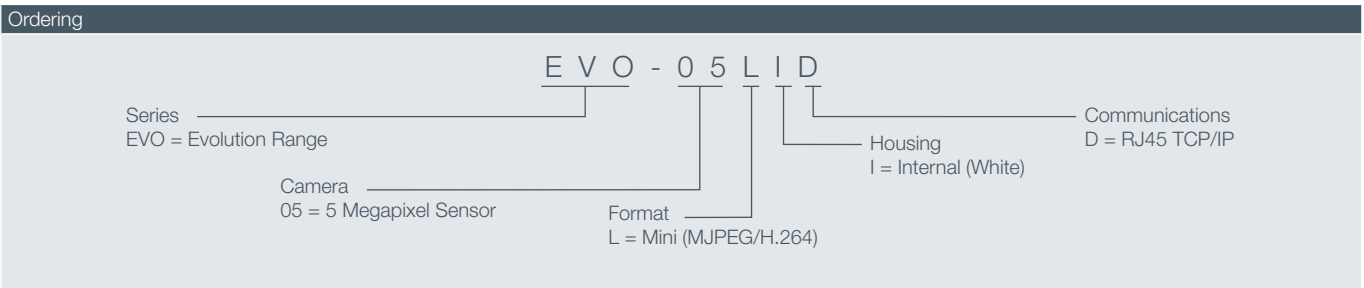
Certifications / Ratings / Patents	
Patents	15 patents; 15 patents pending; 20 licensed patents
Approvals	IEEE802.3af Class 2; EMC: (CISPR Class A) FCC; CE; ICES-003; Safety: UL60950
Other related products	Oncam Grandeye SDK integration pack, Evolution 5MP Camera Range, Evolution Accessories, IP Configuration 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	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 mini accessory			
Image	Part	Product Code	Description
	Vandal resistant bubble trim	OBE-11-IWA	The dome bubble trim cover is made of optical grade polycarbonate. This can be fitted instead of the supplied front trim cover.



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OG\_2014.06.03\_EU

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