

Evolution

360° Outdoor Dome Camera



Taking the next step in 360° total situational awareness

Vandal resistant 360° IP camera with a 5MP sensor and no moving parts

- Constant 360° surveillance; no blind spots
- No moving parts; no maintenance; silent operation
- IP66, IK10 vandal-resistant enclosure
- Up to 30fps @1MP and 1/4MP
- 0.2 lux minimum illumination; enhanced WDR
- PoE or 12VDC powered
- 3-years warranty

Advanced event management

- SD Card for local recording and advanced event management
- Up to 10 configurable privacy regions
- Up to 16 polygonal Video Motion Detection regions
- Local alarm digital input and output
- Audio microphone input

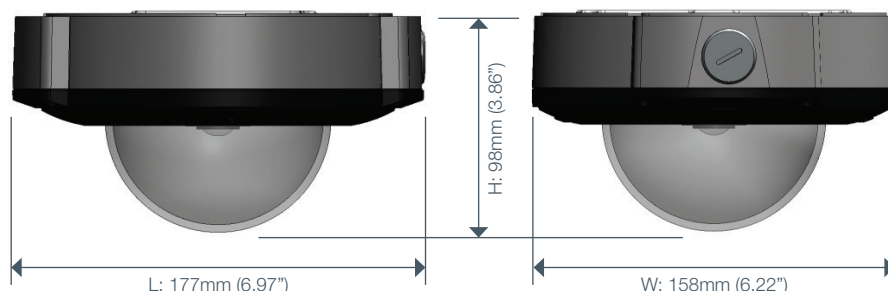
Ideal when IP66 standard ingress protection is required

- Quick and easy installation
- Professional rugged enclosure designed for harsh and humid environments; Impact Resistance IK10
- Pleasing aesthetics in either black or white finish
- 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



Extensive NVR/VMS platform integration; Full live and retrospective dewarping

- Market leading Oncam Grandeye 3D dewarping software
- Camera features are accessible via VMS platforms
- Simultaneous multiple video streams; with resolutions from 528x480 to 2144x1944
- 8x zoom capability through client-side dewarping
- H.264/MJPEG streaming with multiple quality levels
- Optimises bandwidth and storage utilisation
- 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-05-NMD (White enclosure) | EVO-05-NND (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 | 30fps typical for 1MP resolution and ¼MP resolution, 15fps typical for 2MP resolution and up to 10fps for 4MP full resolution | |
| Video Motion Detection | 16 polygonal regions; 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 (with firmware 1.8.1) | |
| Networking | TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP, RSTP, uPNP | |
| Privacy Regions | 10 configurable privacy regions | |
| SD Card | Built-in SD Card slot | |
| 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 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 | 4.032W (PoE) / 3.144W (DC12V) | |
| Video | | |
| 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 | Electronic WDR 60dB | |
| PTZ Functionality | 8x zoom with Oncam Grandeye 3D client-side dewarping software | |
| 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 | |
| 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 | 100Mbps or greater network connection, mouse or compatible pointing device, keyboard | |
| Mechanical | | |
| Camera Mount | Surface mount (or with a ranger of mounting accessories for mounting to a pole / wall / pendant) | |
| Weight | 0.92kg (2.03lbs) | |
| Enclosure | All-aluminium die-cast base enclosure with clear polycarbonate dome bubble and cover trim plate | |

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| 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 | IP66-rated |
| Impact Resistance | IK10-rated |

| 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; KCC; SASO; GOST; S-MARK; C-TICK; UL and cUL-UL60950 |

| Other Related Products | |
|-----------------------------|--|
| Hardware/Software Solutions | 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 Accessories | | | | |
|-----------------------|-----------------------|--------------|--------|--|
| Image | Part | Product Code | Colour | Compatible With |
| | Outdoor Pendant Mount | OBE-01-OWA | White | Evolution Outdoor Camera |
| | | OBE-01-OBA | Black | |
| | Outdoor Sunshield | OBE-02-OWA | White | Evolution Outdoor Camera (to be used with Pendant Mounts) |
| | | OBE-02-OBA | Black | |
| | Pole Mount Bracket | OBE-03-OWA | White | Evolution Indoor / Outdoor Camera (to be used with Pendant Mounts) |
| | | OBE-03-OBA | Black | |
| | Wall Mount Bracket | OBE-04-OWA | White | Evolution Indoor / Outdoor Camera (to be used with Pendant Mounts) |
| | | OBE-04-OBA | Black | |
| | Corner Bracket | OBE-05-OWA | White | Evolution Outdoor Camera (to be used with Outdoor Pendant Mount) |
| | | OBE-05-OBA | Black | |

| Ordering | |
|------------------------|---|
| E V O - 0 5 - N M D | |
| Series | EVO = Evolution Range |
| Camera | 05 = 5 Megapixel Sensor |
| Format | N = Standard (MJPEG/H.264) |
| Housing | M = Outdoor (White) N = Outdoor (Black) |
| other available models | C = Concealed I = Indoor (White) J = Indoor (Black) |
| Communications | D = RJ45 TCP/IP |

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