PRODUCT DESCRIPTION

Evolution 360° Outdoor Dome Camera

Taking the next step in 360° total situational awareness



Vandal resistant 360° 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
- Vandal-resistant enclosure

Ideal when IP66 standard ingress protection is required

- Fully supports IEEE802.3af Class 2 Power over Ethernet (PoE)
- Quick and easy installation
- Professional and rugged enclosure to withstand a range of harsh and humid environments
- 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 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
- Integrated with Digital Sentry version 7.5 and other leading VMS platforms





International Standards Organization Registered Firm; ISO 9001 Quality System

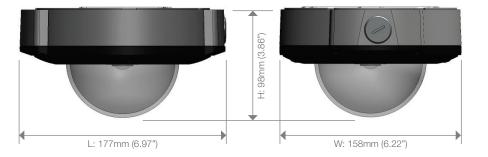


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| Model | EVO-05NMD (White enclosure) EVO-05NND (Black enclosure) | | | | | |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| 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 – selectable between PAL or NTSC - used for test only | | | | | |
| Signal-to-Noise Ratio | 45dB | | | | | |
| White Balance Range | Auto White Balance (Range; 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 | 8W max | | | | | |
| Video | | | | | | |
| Video Stream 1 & 2 Codec's | 2 Codec's H.264 High, Level 5 / MJPEG (both streams configurable) | | | | | |
| Video Stream 1 & 2 Compression Level | Multi-levels of compression adjustment | | | | | |
| Video Stream1 & 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 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 | Integrated with Digital Sentry version 7.5 and other leading VMS platforms | | | | | |
| 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 | | | | | |





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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 / pedant) | | | | |
| Weight | 0.92kg (2.03lbs) | | | | |
| Enclosure | All-aluminium die-cast base enclosure with clear polycarbonate dome bubble and cover trim plate | | | | |
| 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) | | | | |
| Shock and Vibration | In accordance with BS EN 60068-2-64 and BS EN 60068-2-27 | | | | |
| Ingress Protection Rating | IP66-rated | | | | |
| Certifications / Ratings / Patents | | | | | |
| Patents | 15 patents | s; 15 patents pending; 20 licensed patents | 3 | | |
| Approvals | IEEE802.3af Class 2; EM | C: (CISPR Class A) FCC; CE; ICES-003; S | afety: UL60950 | | |
| Other Related Products | Oncam Grandeye SDK integration pack, Evolution Accessories, IP Configuration Tool, 360-degree Viewer, OnVu360 | | | | |
| Frame Rate, Resolution & Storage Need | ds | | | | |
| 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 | | | | | |
| | 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 ** | | |
| 2.00 | 15fps Average file size: 188KB | Average bit rate: 23.1 Mbits/s | 24hrs = 243.65GB ** | | |

Average bit rate: 7.6 Mbits/s

1/4MP 528x480

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

| Evolution Accessories | | | | | | |
|-----------------------|--------------------------|--------------------------|----------------|--------------------------------------------------------------------------|--|--|
| Image | Part | Product Code | Colour | Compatible With | | |
| C | Outdoor Pendent Mount | OBE-01-OWA | White Black | Evolution Outdoor Camera | | |
| | Outdoor Sunshield | OBE-02-OWA OBE-02-OBA | White Black | Evolution Outdoor Camera (to be used with Pendant Mounts) | | |
| | 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 OBE-04-OBA | White Black | Evolution Indoor / Outdoor Camera (to be used with Pendant Mounts) | | |
| | Corner Bracket | OBE-05-OWA OBE-05-OBA | White Black | Evolution Outdoor Camera (to be used with Outdoor Pendant Mount) | | |

15fps Average file size: 62KB

| Ordering |
|--------------------------------------------------------------------------------------------------------------------------|
| EVO-05NID |
| Camera 05 = 5 Megapixel Sensor |
| Format N = Standard (MJPEG/H.264) |
| Housing C = Concealed I = Internal (White) J = Internal (Black) M = External (White) N = External (Black) |
| Communications D = RJ45 TCP/IP |

24hrs = 80.35GB **