

Evolution ExD Camera Range

360° IP Cameras with explosion proof design

Taking the next step in 360° total situational awareness



ONCAM
GRANDEYE

Introduction

This compact and lightweight camera has been designed for use in potentially explosive atmospheres, harsh and hazardous environmental conditions.

The camera housing is manufactured completely from Stainless Steel 316L which is ideally suited for use within the offshore and onshore environments. Stainless Steel screws and mounting bracket are incorporated ensuring a totally corrosion free unit.

This is a unique explosion proof solution integrating world leading 360-degree surveillance technology that provides Total Situational Awareness with no blind spots and no moving parts.



ATEX approved dome for Zone 1/21 & 2/22 use

- Zone 1/21 and Zone 2/22 use
- ATEX approved for Gas and Dust
- Cert. No DNV-2004-OSL-ATEX-0115
- Weatherproof IP66/67 protection, IP68 on request
- Stainless Steel 316L construction
- Light Weight, approx 9 kg*
- Small, 251x Ø158 mm
- Optional Heater / Fibre transceiver / Integrated 230VAC or 115VAC PSU*
- Camera and housing comes pre-configured, no configuration needed to plug and play

* Model dependant



Available Models

- **Evolution ExD Indoor Camera**
5MP 360 degree camera, POE
- **Evolution ExD Outdoor Camera**
5MP 360 degree camera,
POE+ / 120VAC / 230VAC, 25W heater
- **Evolution ExD Outdoor Extreme Camera**
5MP 360 degree camera
120VAC / 230VAC & 25W heater,
IP connection via cable or via onboard
single / multi-mode fibre convertor

Available options

- **Heavy duty wall mount bracket**
Stainless Steel 316L, Weight: 0.8kg
Oncam Grandeye part code : **OBE-07-ESA**
- **Pole mount adapter**
Ø50mm to 150mm, Stainless Steel 316L, Weight: 5kg
Oncam Grandeye part code : **OBE-08-ESA**
(Must be used with Wall Bracket : OBE-07-ESA)
- **Ceiling bracket mount adapter**
230mm high, Stainless Steel 316L, Weight: 4kg
Oncam Grandeye part code : **OBE-09-ESA**

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Evolution Camera Module on board

5-megapixel sensor and no moving parts

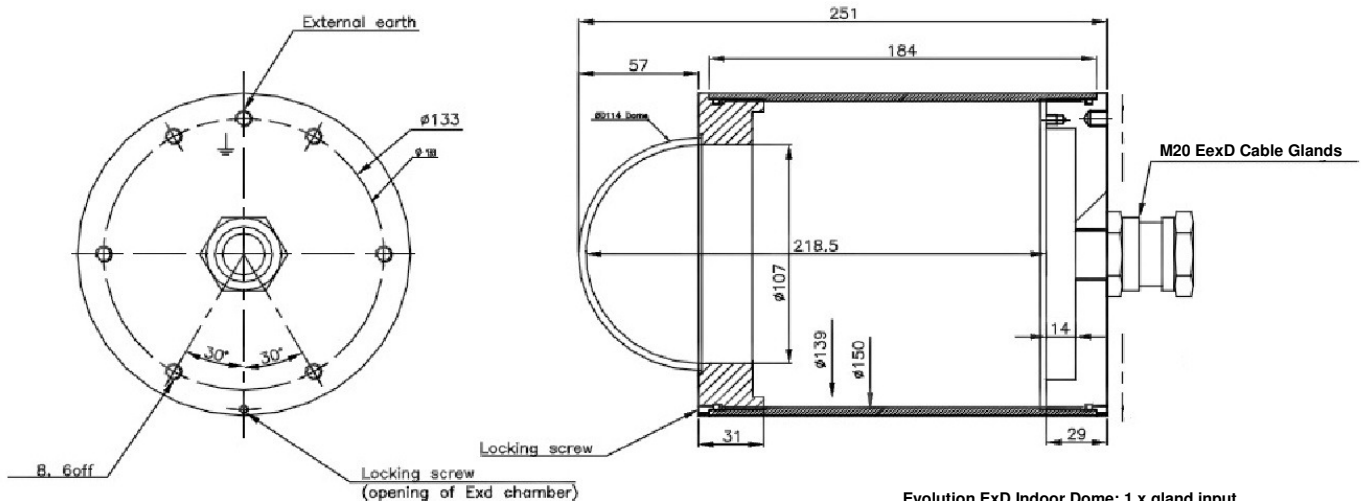
- Constant 360° surveillance; no blind spots
- No mechanical parts to service or maintain
- Can be mounted to a wall, to a ceiling or to a Pole using the range of mounting bracket accessories
- Fully supports IEEE802.3af Class 2 Power over Ethernet (PoE)
- Minimum illumination 0.1 lux, providing clarity in low lights
- Wide Dynamic Range - Greater than 90dB
- Configurable privacy regions
- Video Motion Detection within defined areas of interest
- Local alarm digital input and output
- Audio microphone input, which can be configured to trigger an event
- Optimises bandwidth and storage utilisation
- Highly configurable event management with notifications via Email, FTP and external output
- Integrates NVRs directly to the camera by utilising the market leading Oncam Grandeye - Grandeye 3D dewarping. SDK can be provided separately
- Supports major VMS / NVR / HDVR systems



Dual streams with a choice of resolutions

- Dual video streams
- Video streams in multiple resolutions from 528x480 to 2144x1944
- 10fps typical for full resolution and up to 15fps for all other resolutions
- H.264/MJPEG stream with multiple quality levels
- Multilevel password protection
- Intuitive web-based interface for viewing and configuration
- PAL /NTSC analogue video output for spot monitor

Bottom section and fixing arrangements



Evolution ExD Indoor Dome: 1 x gland input
Evolution ExD Outdoor Dome: 2 x gland inputs
Evolution ExD Outdoor Extreme Dome: 2 x gland inputs

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ONCAM GRAND EYE – EVOLUTION ExD CAMERA - TECHNICAL SPECIFICATIONS

| | INDOOR | OUTDOOR | | | OUTDOOR EXTREME | | |
|---|---|------------------------------|------------------------------|-------------|-----------------|------------|------------|
| Model | EVO-05-EIP | EVO-05-EOA | EVO-05-EOE | EVO-05-ESA | EVO-05-ESE | EVO-05-EMA | EVO-05-EME |
| General | | | | | | | |
| Field of view | 360° | | | | | | |
| Image sensor | 5 megapixel | | | | | | |
| Angle of view | 180° hemisphere | | | | | | |
| Lens | 185° 1.6mm / F2.0 | | | | | | |
| Minimum illumination | 0.1 lux | | | | | | |
| Frame rate | 10 fps typical at maximum resolution and up to 15 fps for all other resolutions | | | | | | |
| Video Motion Detection | 10 regions of interest; VMD; configurable response; adjustable characteristics | | | | | | |
| External input | 1x contact input | | | | | | |
| External output | 1x contact output | | | | | | |
| Security | Multilevel access with configurable passwords | | | | | | |
| 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 | HTTP, DHCP, DNS, NTP, FTP, SMTP, RSTP | | | | | | |
| Privacy | 10 configurable privacy regions | | | | | | |
| On-board storage | Built-in SD Card slot (future feature via firmware update) | | | | | | |
| Audio connections | Audio in; Microphone input via 3.5mm jack | | | | | | |
| Analogue video out | BNC connection – selectable between PAL or NTSC | | | | | | |
| Mechanical | | | | | | | |
| Camera mount | Ceiling or wall or Pole via Accessories Brackets which are available from Oncam Grandeye | | | | | | |
| Environmental | | | | | | | |
| Operating temperature range | -40 to +55°C (-40 to +131°F) | | | | | | |
| Storage temperature range | -40 to +70°C (-40 to +158°F) | | | | | | |
| Housing Entries | 1 x M20 Gland input for ExD Indoor / 2 x M20 Gland inputs for ExD Outdoor & Outdoor Extreme M20 EEx'sd available from Oncam Grandeye Rapid Ex Barrier Glands for cables 6.1mm – 11.7mm : (Oncam Grandeye part code OXG-01-ESA) Rapid Ex Barrier Glands for cables 9.5mm – 15.9mm : (Oncam Grandeye part code OXG-02-ESA) | | | | | | |
| Ingress Protection | IP66/67 | | | | | | |
| Enclosure | Stainless Steel 316L | | | | | | |
| Dimensions | L:251mm x Ø158mm (9.88" x Ø6.22") | | | | | | |
| Weight | Approx 9KG (19.8lbs) | | | | | | |
| Video | | | | | | | |
| Video stream1 codec | H.264 / Motion JPEG | | | | | | |
| Video stream1 compression level | Multi-levels of compression adjustment | | | | | | |
| Video stream1 resolution | Fisheyes at: ¼ MegaPixel (528x480), 1Mp (1056x960), 2Mp (1488x1360), 4Mp (2144x1944) | | | | | | |
| Video stream2 codec | Motion JPEG | | | | | | |
| Video stream2 compression level | Multi-levels of compression adjustment | | | | | | |
| Video stream2 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 (with ActiveX plug-in, supplied); Firefox; Chrome | | | | | | |
| Model | EVO-05-EIP | EVO-05-EOA | EVO-05-EOE | EVO-05-ESA | EVO-05-ESE | EVO-05-EMA | EVO-05-EME |
| Electrical / Connections | | | | | | | |
| Ports – Camera Module | RJ45 for 100Base-TX; 2.1mm DC Input jack; 6-pin 1.5mm Phoenix for external I/O, BNC | | | | | | |
| Network cable type | CAT5 or better for 100Base-TX | | | | | | |
| Fibre Optic Convertor Onboard | - | - | - | Single Mode | Single Mode | Multi-Mode | Multi-Mode |
| Power input—requirements | POE (IEEE 802.3af) | POE+ (IEEE 802.3at) / 120VAC | POE+ (IEEE 802.3at) / 220VAC | 120VAC | 230VAC | 120VAC | 230VAC |
| 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 | | | | | | |
| Certification | ATEX (Additional certification pending) | | | | | | |
| Other related products | Oncam Grandeye SDK integration pack, Evolution Accessories, Oncam IPZoom 360° camera and software; Conceal-mounting IP camera (IPC); Surface-mounting IP camera (IPW); Thin-mounting IP camera (IPT); Halocam-R 3-megapixel analogue camera; Halocorder high-resolution 360° recorder | | | | | | |

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