Evolution

360° Indoor Concealed Camera

Taking the next step in 360° total situational awareness



5-megapixel sensor and no moving parts

- Constant 360° surveillance; no blind spots
- Silent operation as there are no mechanical parts wear and tear
- Light weight enclosure that can be completely concealed behind ceilings or walls voids
- False wall or ceiling thickness of between 3mm (1/4") and 25mm (1")

A truly covert installation with the lowest profile available

- Fully supports IEEE802.3af Class 2 Power over Ethernet (PoE)
- Quick and easy installation
- Professional indoor enclosure
- Pleasing aesthetics in either white or black finish
- Minimum illumination 0.2 lux, providing clarity in low lights
- Convenient surface-mounting enclosure
- Suitable for ceiling, wall or table mounted applications

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
- Supports major VMS / NVR / HDVR systems



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TECHNICAL SPECIFICATIONS

Model	EVO-05NCD				
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				
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 / Supported IP Protocol	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				
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	8W max				
Video Stroom 1 % 0 Codesia	LLOCALItale Lavel E / MIDEC / bake absences configurable				
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 15fps)				
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				
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				

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24hrs = 552.96GB **

24hrs = 453.60GB **

24hrs = 243.65GB ** 24hrs = 80.35GB **

Mechanical							
Camera Mount		Behind ceiling or wall to conceal the camera module from view via flush mounted adaptor ring					
Weight		0.45kg (0.95lbs)					
Enclosure		Die-cast aluminium camera module with polycarbonate mounting adaptor and clamping ring					
Cut out Required		Diameter cut out; 64mm (2 1/2"), Max / Min ceiling or wall material thickness; 3mm (1/4") – 25mm (1")					
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)					
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 Accessories, IP Configuration Tool, 360-degree Viewer, OnVu360					
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 **		
M.IPEG							

Average bit rate: 52.4 Mbits/s

Average bit rate: 43.0 Mbits/s

Average bit rate: 23.1 Mbits/s

Average bit rate: 7.6 Mbits/s

2144x1944

1488x1360

1056x1056

528x480

10fps

15fps

15fps

15fps

Notes:

4MP

2MP

1MP

1/4MP

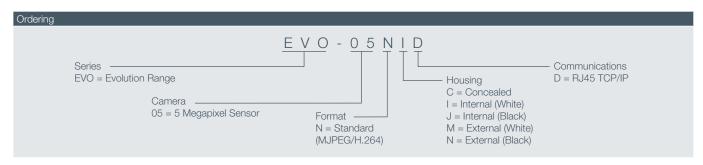
Values for frame rate, size and bandwidth are approximate and are influenced by compression, quality settings, number of simultaneous viewers and the amount of detail as well as any movement in a scene.

Average file size: 640KB

Average file size: 350KB

Average file size: 188KB

Average file size: 62KB



^{*} Factory / Default settings

^{**} Based on the same scene, with constant average light conditions