

# Evolution 05

### 360° Outdoor Camera

The next step in 360° total situational awareness

#### 5 MP sensor and no moving parts

- Constant 360° surveillance with no blind spots
- No moving parts, no maintenance and silent operation
- $\bullet$  Up to 30 fps video stream at 1 MP and ½ MP
- 0.2 lux minimum illumination and electronic WDR
- PoE or 12 VDC powered
- 3-years warranty

#### Advanced features

- Local SD card slot for event recording
- Configurable privacy regions
- Polygonal video motion detection regions
- Local alarm digital input and output
- Audio microphone input

#### Multiple exterior mounting options

- Simple and easy installation
- IP67 rated enclosure for weather protection
- IK10 rating for vandalism protection
- Range of accessories provide multiple mounting possibilities including ceiling, wall, pendant and pole
- Enclosure available in black and white



## Extensive VMS/NVR platform integration with Oncam SDK

- Market leading Oncam 3D dewarping software
- Full Live and retrospective dewarping available
- Camera features are accessible through VMS platforms
- Simultaneous multiple video streams
- 10x digital zoom capability through client-side dewarping
- H.264 / MJPEG streaming with multiple quality levels
- Optimizes bandwidth and storage utilization
- Intuitive web-based interface for viewing and configuration
- Supported by major VMS / NVR systems including VideoXpert (version 1.6 or later) and Digital Sentry (version 7.8.90 or later)
- ONVIF profile S conformant





### TECHNICAL SPECIFICATION

Central   Laris Field of View   180° Horizontal, 168° Vertical   Image Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.s. 1944 V.S. M.P.   172-5 inch Sony CMOS Sensor   2552 H.S. 1944 V.S. M.P.	Model	EVO-05NMD (White)	EVO-05NND (Black)	
Lone Field of View I 180° Horizontal, 188° Vertical Image Sensor 2500 H. 1944 V. 5 MP 1944 V. 5 MP 1946 V. 5 MP 1945 V. 5 MP 1946 V. 5 MP 1945 V. 5				
1/2.5-incl Sony CMOS Sensor  1.65° / P2.0  Minimum illumination  0.2 lux = 50 IRE F/2.0 (6500 k)  Frame Rata  3.0 tps for 1 MP and 3 k MP resolution 1.5 tps for 2 MP resolution 1.0 tps for 4 MP resolution 1.0 tps for 5 MP resolution 1.0 tps for 4 MP resolution 1.0 tps for 5 MP reso		180° Horizontal, 168° Vertical		
Lans Minimum Illumination  0.2 law = 50 IREE F/20 (6500 k) Frame Rate  30 ligs for 1 MP and 3 k MP resolution 15 fps for 2 MP resolution 15 fps for 2 MP resolution 15 fps for 2 MP resolution 16 fps for 2 MP resolution 17 fps for 4 MP reliar resolution 18 configurable regions External Output 18 contact output 18 contact output 19 Configurable password protection Advanced Event Management 19 Tiggered by motion, external input or HTTP event, result configurable, external output, 19 FTPSMITP pulsad and local recording Networking 10 FPI HTTP, DHOR DNS, NIP, FIP, SMIP and RTISP 10 configurable privacy regions 10 configurable privacy reg	Image Sensor	2592 H x 1944 V, 5 MP,		
Frame Rate  30 fps for 1 MP and 14 MP resolution 10 fps for 4 MP full resolution 20 fps for 5 MP resolution 30 fps for 5 MP resolution 31 fps for 5 MP resolution 40 fps for 5 MP full resolution 40 sontigurable regions External Dutput 50 contigurable regions 51 x contact culput 52 country 53 Contract furput 54 x contact culput 55 country 56 Contigurable provided protection 56 Advanced Event Management 57 Figgered by motion, oxformal input or HTTP event, result configurable, external output, 57 Figgered by motion, oxformal input or HTTP event, result configurable, external output, 57 Figgered by motion, oxformal input or HTTP event, result configurable, external output, 57 Figgered by motion, oxformal input or HTTP event, result configurable, external output, 57 Figgered by motion, oxformal input or HTTP event, result configurable, external output, 57 Figgered by motion, oxformal input or HTTP event, result configurable, external output, 57 Figgered by motion, oxformal input or HTTP event, result configurable, external output, 57 Figgered by motion, oxformal protection, 58 Figgered by motion, oxformal protection, 58 Figgered by motion, oxformal local configurable, external output, 57 Figgered by motion, oxformal protection, 58 Figgered by motion, oxformal protection, 59 Figgered by motion, oxformal protection, 59 Figgered by motion, oxformal protection, 50 Figgered by motion, oxformal protection, 59 Figgered by motion, oxformal protection, 50 Figgered	Lens	·		
Tile fas for 2 MP resolution 10 fps for 4 MP full resolution 11 x contact input External loput External loput External loput External loput External loput Tx contact output Security Configurable password protection Advanced Event Management Tinggered by motion, external input or HTTP event, result configurable, external output, FTP/SMTP upload and local recording TCP/FT FTTP MTP end FTR PTF SMTP and FTSP Privacy Regions To Configurable privac	Minimum Illumination	0.2 lux = 50 IRE	F/2.0 (6500 k)	
External Input External Output Socurity Advanced Event Management Triggered by motion, external input or HTTP event, result configurable, external output, FFPSMTP upload and local recording Networking TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP and RTSP Privacy Regions TO configurable priv	Frame Rate	30 fps for 1 MP and 1/4 MP resolution 15 fps for 2 MP resolution		
External Cutput Security Configurable password protection Actvanced Event Management Triggered by motion, external input or HTIP event, result configurable, external output, FTP/SMTP upload and local recording Networking TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP and RTSP Privacy Regions D Card Built-in SD card slot. Supports cards up to 128 GB capacity. Speed class 10 or higher required Audio Connections Audio Intrough 3.5 mm jack, RTSP using G711 codes or ONNIF S Analog Video Out Audio Connections Audio Intrough 3.5 mm jack, RTSP using G711 codes or ONNIF S Analog Video Out Write Balance Range Audio Intrough 3.5 mm jack, RTSP using G711 codes or ONNIF S Analog Video Out Write Control Video Video Video Video Video Stream 1 Codec Video Stream 1 Codec Video Stream 1 Compression Level Video Stream 2 Pixel Resolution Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1 MP (568 x 960),	Video Motion Detection	8 configurab	le regions	
Security Advanced Event Management Advanced Event Management Triggered by motion, external input or HTTP event, result configurable, external output, FTP/SMTP upload and local recording TCP/IR, HTTP, DHCP, DNS, NTP, FTP, SMTP and RTSP Privacy Regions TO Configurable privacy regions SD Card Built-in SD card stot. Supports cards up to 128 GB capacity, Speed class 10 or higher required Audio Connections Audio Connections Audio Triving A. Simmi jack, RTSP using G711 codec or ONVIF S Analog Viceo Out Test port for production, not available in normal operation White Balance Range  Video Otteam 1 Codec Video Stream 1 Compression Level Video Stream 1 Pixel Resolution Tight (1056 x 960), 14 MP (528 x 480) Video Stream 2 Codec H.264 High, Level 5 / MJPEG (streams configurable) Video Stream 2 Codec H.264 High, Level 5 / MJPEG (streams configurable) Video Stream 2 Pixel Resolution Tight (1056 x 960), 14 MP (528 x 480) Video Stream 2 Compression Level Multi-levels of compression and frame rate adjustment Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 14 MP (528 x 480) Video Stream 3 Compression Level Multi-levels of compression and frame rate adjustment Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 14 MP (528 x 480) Video Stream 3 Pixel Resolution Tight (1056 x 960), 14 MP (528 x 480) Tight (1056 x 960), 15 MP (528 x 480) Tight (1056 x 960), 15 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960), 16 MP (528 x 480) Tight (1056 x 960)	External Input	1x contac	ct input	
Activanced Event Management Triggered by motion, external input or HTTP event, result configurable, external output, ETP/SMTP upload and local recording Networking TCP/IR_HTTP_DHCP, DNS, NTP, FTP_SMTP and RTSP Privacy Regions 10 configurable privacy regions SD Card Built-in SD card slot. Supports cards up to 128 GB capacity. Speed class 10 or higher required Audio Connections Analog Video Out Test port for production, not available in normal operation White Balance (Range = approx. 2500 K ~ 8000 K)  Video Video Stream 1 Codec Video Stream 1 Compression Level Video Stream 1 Compression Level Video Stream 1 Compression Level Video Stream 1 Pixel Resolution Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 34 MP (528 x 480) Video Stream 2 Pixel Resolution Video Stream 2 Pixel Resolution Video Stream 3 Codec Video Stream 3 Compression Level Video Stream 3 Compr	External Output	1x contact	t output	
RETP/SMTP upload and local recording TCP/R, HTTP, DHCP, DNS, NTP, FTP, SMTP and RTSP Privacy Regions 10 configurable privacy regions SD Card Built-in SD card slot. Supports cards up to 128 GB capacity. Speed class 10 or higher required Audio In through 3.5 mm jack, RTSP using G711 codec or ONI/F S Analog Video Out Fest port for production, not available in normal operation White Balance Range Auto White Balance (Range = approx. 2500 K ~ 8000 K) Video Video Video Video Stream 1 Codec Video Stream 1 Compression Level Video Stream 1 Pixel Resolution Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 14 MP (528 x 480) Video Stream 2 Codec Video Stream 2 Compression Level Video Stream 2 Pixel Resolution Video Stream 3 Codec Video Stream 3 Pixel Resolution Video Stream 3 Codec Video Stream 4 Video Stream 4 Video V	Security	Configurable pass	word protection	
Privacy Regions SD Card Built-in SD card slot. Supports cards up to 128 GB capacity. Speed class 10 or higher required Audio Connections Audio Connections Audio Intrough 3.5 mm jack, RTSP using G711 codes or ONVIF S Analog Video Out White Balance Range Auto White Balance (Range = approx. 2500 K - 8000 K)  Video Video Video Stream 1 Codec Video Stream 1 Codec Video Stream 1 Pixel Resolution Auto White Balance (Range = approx. 2500 K - 8000 K)  Video Stream 1 Pixel Resolution Auto White Balance (Range = approx. 2500 K - 8000 K)  Video Stream 2 Codec Auto White Balance (Range = approx. 2500 K - 8000 K)  Video Stream 2 Pixel Resolution Auto White Balance (Range = approx. 2500 K - 8000 K)  Video Stream 2 Codec Auto White Pixel Resolution Auto White Stream 2 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), ½ MP (528 x 480)  Video Stream 2 Compression Level Video Stream 3 Codec Auto White Pixel Resolution Auto Stream 3 Codec Auto Stream 3 Codec Auto White Pixel Resolution Auto Stream 3 Codec Auto Stream 3 Codec Auto White Pixel Resolution Auto Stream 3 Codec Auto White Pixel Resolution Auto Stream 3 Codec Auto Stream 4 MP (2144 x 1944), 2 MP (1488 x 1360), 11 MP (1056 x 960), ½ MP (282 x 480) Auto Stream 3 Codec Auto Stream 3 Codec Auto Stream 4 MP (2144 x 1944), 2 MP (1488 x 1360), 11 MP (1056 x 960), ½ MP (282 x 480) Auto Stream 4 MP (2145 x 1944),	Advanced Event Management			
Built-in SD card slot. Supports cards up to 128 GB capacity. Speed class 10 or higher required Audio Connections Audio In through 3.5 mm jack, RTSP using G711 code or ONNTS Test port for production, not available in normal operation White Balance Range Auto White Balance (Range = approx. 2500 K - 8000 K)  Video Video Video Stream 1 Codec Video Stream 1 Compression Level Video Stream 1 Pixel Resolution Video Stream 2 Pixel Resolution Video Stream 3 Codec Video Stream 2 Pixel Resolution Video Stream 2 Pixel Resolution Video Stream 3 Codec Video Stream 3 Compression Level Video Stream 3 Pixel Resolution Video Stream 4 Video V	Networking	TCP/IP, HTTP, DHCP, DNS, N	NTP, FTP, SMTP and RTSP	
Audio In through 3.5 mm jack, RTSP using G711 codec or ONVIF S Analog Video Out Test port for production, not available in normal operation White Balance Range  Video Video Video Stream 1 Codec Video Stream 1 Compression Level Video Stream 1 Compression Level Video Stream 1 Pixel Resolution Video Stream 2 Codec Video Stream 3 Codec Video Stream 3 Codec Video Stream 3 Codec Video Stream 2 Codec Video Stream 2 Compression Level Video Stream 2 Compression Level Video Stream 3 Codec Video Stream 2 Pixel Resolution Video Stream 3 Codec Video Stream 3 Pixel Resolution Video Stream 3 Pixel Resolution Video Stream 3 Compression Level Video Stream 3 Codec Video Stream 3 Codec Multi-levels of compression and frame rate adjustment Video Stream 3 Compression Level Video Stream 3 Pixel Resolution Video Stream 3 Compression Level Video Stream 3 Compression Level Video Stream 3 Compression Level Video Stream 3 Dixel Resolution Video Stream 3 Compression Level Video Stream 3 Dixel Resolution Video Stream 3 Compression Level Video Stream 3 Dixel Resolution Video Stre				
Analog Video Out White Balance Range Auto White Balance (Range = approx. 2500 K - 8000 K)  Video Video Video Stream 1 Codec Video Stream 1 Compression Level Video Stream 1 Pixel Resolution Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1/4 MP (528 x 480) Video Stream 2 Codec H. 264 High, Level 5 / MJPEG (streams configurable) Video Stream 2 Compression Level Multi-levels of compression and frame rate adjustment Video Stream 2 Compression Level Multi-levels of compression and frame rate adjustment Video Stream 2 Compression Level Multi-levels of compression and frame rate adjustment Video Stream 2 Pixel Resolution Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1/4 MP (528 x 480) Video Stream 3 Codec MJPEG Video Stream 3 Codec MJPEG Video Stream 3 Compression Level Multi-levels of compression and frame rate adjustment Video Stream 3 Pixel Resolution Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1/4 MP (1058 x 960) Video Stream 3 Pixel Resolution Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1/4 MP (1056 x 9				
Write Balance Range         Auto White Balance (Range = approx. 2500 K ~ 8000 K)           Video           Video Stream 1 Codec         H.264 High, Level 5 / MJPEG (streams configurable)           Video Stream 1 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 1 Pixel Resolution         Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1 MP (1056 x 960), 1 MP (252 x 480)           Video Stream 2 Codec         H.264 High, Level 5 / MJPEG (streams configurable)           Video Stream 2 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Codec         MJPEG           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Compression Level         Stream 1 Compression L				
Video         Video Stream 1 Codec         H.264 High, Level 5 / MJPEG (streams configurable)           Video Stream 1 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 1 Pixel Resolution         Fisheyes at: 4 MP (2144 x 1944), 2 MP (528 x 480)           Video Stream 2 Codec         H.264 High, Level 5 / MJPEG (streams configurable)           Video Stream 2 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 2 Pixel Resolution         Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1058 x 960), 4 MP (528 x 480)           Video Stream 3 Codec         MJPEG           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Pixel Resolution         Fisheye at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 960), 4 MP (528 x 480)           Video Stream 3 Compression Level         Multi-levels of compression and frame rate adjustment           Video Stream 3 Pixel Resolution         Fisheye at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1488 x 1360), 1 MP (1688 x 1944), 2 MP (1				
Video Stream 1 Codec  H.264 High, Level 5 / MJPEG (streams configurable)  Video Stream 1 Compression Level  Multi-levels of compression and frame rate adjustment  Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), ½ MP (528 x 480)  Video Stream 2 Codec  H.264 High, Level 5 / MJPEG (streams configurable)  Video Stream 2 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 2 Pixel Resolution  Video Stream 3 Codec  MJPEG  Video Stream 3 Codec  MJPEG  Video Stream 3 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 3 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 3 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 3 Pixel Resolution  Maximum Frame Rate  Multi-levels of compression and frame rate adjustment  Video Stream 3 Pixel Resolution  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Electronic WDR 60dB  PTZ Functionality  Ox zoom with Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX  2.1 mm DC Input jack  6-pin 1.5 mm Phoenix for external I/O  BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX  Power Input  12 VDC, 1.0 4 (min) LPS or NEC Class 2 power supply or	White Balance Range	Auto White Balance (Range =	approx. 2500 K ~ 8000 K)	
Video Stream 1 Compression Level  Wulti-levels of compression and frame rate adjustment  Video Stream 1 Pixel Resolution  Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1/4 MP (258 x 480)  Video Stream 2 Codec  Video Stream 2 Compression Level  Wulti-levels of compression and frame rate adjustment  Video Stream 3 Codec  Wideo Stream 3 Codec  Video Stream 3 Codec  Video Stream 3 Compression Level  Wulti-levels of compression and frame rate adjustment  Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1/4 MP (528 x 480)  Wideo Stream 3 Compression Level  Video Stream 3 Pixel Resolution  Milti-levels of compression and frame rate adjustment  Video Stream 3 Pixel Resolution  Maximum Frame Rate  Wideo Stream 3 Pixel Resolution  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Electronic WDR 60dB  PTZ Functionality  10x zoom with Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional  Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX  2.1 mm DC Input jack  6-pin 1.5 mm Phoenix for external I/O  BNC for test video output  Network Cable Type  CATS or better for 100Base-TX  Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Video			
Video Stream 1 Pixel Resolution  Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), ½ MP (528 x 480)  Video Stream 2 Codec  H.264 High, Level 5 / MJPEG (streams configurable)  Video Stream 2 Compression Level  Multi-levels of compression and frame rate adjustment  Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), ½ MP (1488 x 1360), 1 MP (1056 x 960), ½ MP (528 x 480)  Video Stream 3 Codec  MJPEG  Video Stream 3 Codec  MJPEG  Video Stream 3 Pixel Resolution  Maximum Frame 3 Pixel Resolution  Maximum Frame Rate  30 fps  Image Control  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Electronic WDR 60dB  PTZ Functionality  Video Stream 3 Codec  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Electronic WDR 60dB  PTZ Functionality  10x zoom with Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX 12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Video Stream 1 Codec	H.264 High, Level 5 / MJPE	EG (streams configurable)	
Video Stream 1 Pixel Resolution  1 MP (1056 x 960), ½ MP (528 x 480)  Video Stream 2 Codec  H.264 High, Level 5 / MJPEG (streams configurable)  Video Stream 2 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 3 Pixel Resolution  Video Stream 3 Codec  MJPEG  Video Stream 3 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 3 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 3 Pixel Resolution  Maximum Frame Rate  Multi-levels of compression and frame rate adjustment  Video Stream 3 Pixel Resolution  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Fisheye at: ½ MP (528 x 480)  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Fisheye at: ½ MP (528 x 480)  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Fisheye at: ½ MP (528 x 480)  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Fisheye at: ½ MP (528 x 480)  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality of table mount  Image Enhancement  Fisheye at: ½ MP (528 x 480)  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Fisheye at: ¼ MP (528 x 480)  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Fisheye at: ¼ MP (528 x 480)  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compressi	Video Stream 1 Compression Level	Multi-levels of compression a	and frame rate adjustment	
Video Stream 2 Codec Video Stream 2 Compression Level Video Stream 2 Pixel Resolution Video Stream 3 Pixel Resolution Video Stream 3 Codec Video Stream 3 Codec Video Stream 3 Codec Video Stream 3 Compression Level Video Stream 3 Pixel Resolution Maximum Frame Rate Video Stream 3 Pixel Resolution Milital Resolution Video Stream 3 Pixel Resolution Milital Resolution Video Stream 3 Pixel Resolution Video Stream 3 Codec Video Stream 3	Video Stream 1 Pixel Resolution			
Video Stream 2 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 2 Pixel Resolution  Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360), 1 MP (1056 x 960), 1/4 MP (528 x 480)  Video Stream 3 Codec  MJPEG  Video Stream 3 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 3 Pixel Resolution  Fisheye at: 1/4 MP (528 x 480)  Maximum Frame Rate  30 fps  Image Control  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Electronic WDR 60dB  PTZ Functionality  10x zoom with Oncam 3D client-sicle dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional  Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Video Stream 2 Codec			
Video Stream 3 Codec  Video Stream 3 Codec  MJPEG  Video Stream 3 Compression Level  Video Stream 3 Compression Level  Multi-levels of compression and frame rate adjustment  Video Stream 3 Pixel Resolution  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  PTZ Functionality  MS / NVR Support  Contact Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Video Stream 2 Compression Level			
Video Stream 3 Codec  Video Stream 3 Compression Level  Video Stream 3 Pixel Resolution  Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Control  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Electronic WDR 60dB  PTZ Functionality  10x zoom with Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional  Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Video Stream 2 Pixel Resolution	Fisheyes at: 4 MP (2144 x 1944), 2 MP (1488 x 1360),		
Video Stream 3 Compression Level Video Stream 3 Pixel Resolution Fisheye at: ¼ MP (528 x 480)  Maximum Frame Rate 30 fps  Image Control Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement Electronic WDR 60dB PTZ Functionality 10x zoom with Oncam 3D client-side dewarping software VMS / NVR Support Contact Oncam Sales for the supported VMS / NVR list Web Browser Compatibility Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional Unicast Up to 20 simultaneous users depending on the resolution settings Multicast Supported for H.264 main camera stream Bit Rate Control Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical Ports RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type CAT5 or better for 100Base-TX Power Input 12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Video Stream 3 Codec			
Video Stream 3 Pixel Resolution  Fisheye at: ¼ MP (528 x 480)  Maximum Frame Rate  30 fps  Image Control  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  PTZ Functionality  10x zoom with Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or				
Maximum Frame Rate  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Electronic WDR 60dB  PTZ Functionality  10x zoom with Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional  Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	·	,		
Image Control  Settings: brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  Image Enhancement  Electronic WDR 60dB  PTZ Functionality  10x zoom with Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional  Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or				
Image Enhancement  Electronic WDR 60dB  PTZ Functionality  10x zoom with Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional  Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or		Settings: brightness / contrast / saturation / exposure compensation,		
PTZ Functionality  10x zoom with Oncam 3D client-side dewarping software  VMS / NVR Support  Contact Oncam Sales for the supported VMS / NVR list  Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional  Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX  Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Image Enhancement		•	
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Web Browser Compatibility  Internet Explorer 9, Edge 25, Firefox 23 and Chrome 29 or above. Plug-in required for full functional Unicast  Up to 20 simultaneous users depending on the resolution settings  Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	·			
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Multicast  Supported for H.264 main camera stream  Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  Supported for H.264 main camera stream  Constant Quality Control  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input	' '			
Bit Rate Control  Options include Variable Bit Rate Controls, Constant Bit Rate Control and Constant Quality Control  Electrical  Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or				
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Ports  RJ45 for 100Base-TX 2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type  CAT5 or better for 100Base-TX Power Input  12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or		Options include variable bit nate controls, consta	The Diction of the Control and Constant Quality Control	
2.1 mm DC Input jack 6-pin 1.5 mm Phoenix for external I/O BNC for test video output  Network Cable Type CAT5 or better for 100Base-TX  Power Input 12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Electrical			
Network Cable Type CAT5 or better for 100Base-TX Power Input 12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Ports	2.1 mm DC 6-pin 1.5 mm Phoer	Input jack nix for external I/O	
Power Input 12 VDC, 1.0 A (min) LPS or NEC Class 2 power supply or	Network Cable Type		·	
(/,		12 VDC, 1.0 A (min) LPS or NI	EC Class 2 power supply or	
Power Consumption (maximum) 4.05 W (PoE 48 VDC) / 3.19 W (DC 12 VDC)	Power Consumption (maximum)			

### TECHNICAL SPECIFICATION

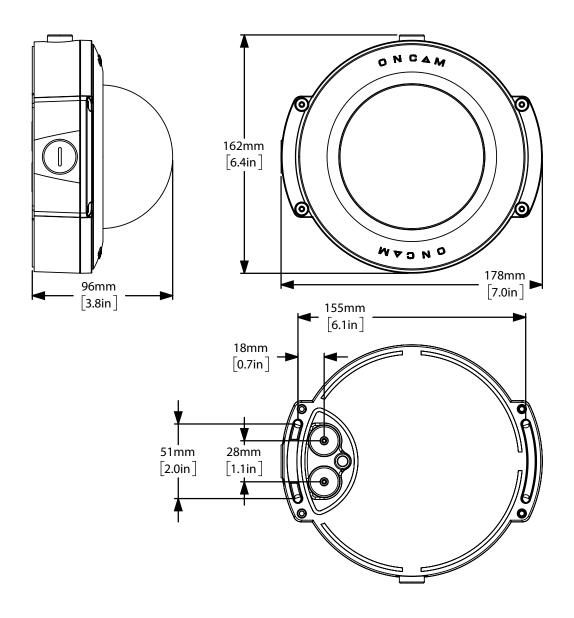
Mechanical		
Camera Mount	Surface mount	
Weight	0.86 kg (1.90 lbs)	
Dimensions (L x W x H)	178 x 162 x 96 mm (7.0 x 6.4 x 3.8 in.)	
Housing Material	Aluminium with polymer bubble	

Environmental		
Operating Temperature Range	-40 to +55° C (-40 to +131° F)	
Operating Humidity	Up to 98% non-condensing	
Ingress Protection	IP67	
Impact Resistance	IK10	

Certifications		
Approvals	IEEE802.3af, CE, AS/NZS CISPR 22:2009+A1:2010, CISPR 24:2010 (Class A), FCC, ICES-003, KCC, CU, RCM, SASO.	
	UL 60950-1(ed.2) & CAN/CSA C22.2 No. 60950-1-07, RoHS, REACH, IP66/67, IK10	

Accessories				
	Part Number	Description		
	OBE-01-OWA (White) OBE-01-OBA (Black)	Outdoor Pendant Mount		
	OBE-03-OWA (White) OBE-03-OBA (Black)	Pole Mount Bracket (Use with Pendant Mount)		
	OBE-04-OWA (White) OBE-04-OBA (Black)	Wall Mount Bracket (Use with Pendant Mount)		
	OBE-05-OWA (White) OBE-05-OBA (Black)	Corner Mount Bracket (Use with Pendant Mount)		
	OBE-02-OWA (White) OBE-02-OBA (Black)	Outdoor Sunshield (Use with Pendant Mount)		

#### Dimensions



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