COEX™ C2000 HD LE IP Fixed Camera Station

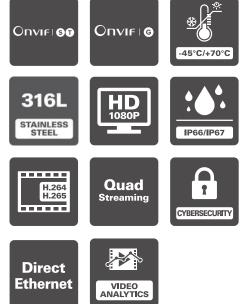
The COEX[™] C2000 HD LE IP Fixed Camera Station has a unique compact and lightweight design developed specifically to meet the worldwide demand for surveillance and process monitoring of harsh industrial and marine environments.

The COEX C2000 marine camera stations are manufactured from the highest-grade, corrosion-resistant, electro-polished 316L stainless steel. They are designed for toughness and durability to operate in the most adverse environments, from freezing temperatures to the blistering heat of desert conditions.

This advanced camera station combines Full HD (1080p) video with a 33x optical zoom to deliver high-quality image and detail capture. COEX camera stations are compatible with a variety of VMS platforms through ONVIF Profile S, G and T compliance.

Options

- Integral wiper
- COEX MEWS5 wash systems
- IR lamp*1
- Video analytics*9



SYNECTICS

Specifications

CERTIFICATIONS / RATINGS*5		[OPTIONS]			
EMC	EN61000-6-2, EN61000-6-4 Class A limits				
CE / UKCA	IEC62368-1, IEC60825-1				
ENVIRONMENTAL					
Operating Temperature	-45°C to +70°C /-49°F to +158°F				
Storage Temperature	-45°C to +80°C / -49°F to +176°F				
Ingress Protection	(IP66 & IP67 to IEC60529)				
Salt Mist	IEC60068-2-52 & IEC60945 Section 8.12				
Wind Loading	Operational to 130 km/h, survival to 268 km/h				
MECHANICAL					
Material	Electro-polished 316L stainless steel				
Window	HD grade toughened glass, thermostatically operated demister [Wiper*2]				
Mounting Orientation	Upright or inverted				
Mounting Base	$1 \times \emptyset$ 10.5 mm / 0.41 " fixing hole				
Dimensions ^{*1} (W x D x H)	166 x 310 x 230 mm / 6.54" x 12.21" x 9.06"				
Weight*1	5 kg / 11 lbs				
Cable Gland Entries	1 x M20				
ELECTRICAL					
Input Power Options	24 V AC/DC (±10%) 50/60 Hz				
	11 VA Quiescent				
Power Consumption ^{*1}	27 VA Operating (with heater)				
	30 VA Max				
Wash Control ^{*1}	Volt free switched output (24 V 0.75 A max)				
Auxiliary Inputs ^{*3}	[1 x contact closure input]				
Relay Outputs*3	1 x volt free switched output (24 V 0.75 A max)				
Audio*3	[Line Input/Output]				
CAMERA OPERATION					
Preset Memory	128 user programmable preset positions (zoom, focus)				
Wash/Wipe*1	[Optional wash/wipe with auto-wiper off]				
	Zoom and focus control, preset store/recall, auxiliary controls (wash/wipe/lamps)				
ONVIF Control Features	Imaging settings [Alarm input]				
Childred and Control + Catales	Relay outputs				
	Event metadata				
IR Lamp Control ^{*1}	Manual/auto control of a connected IR lamp				
IR Focus Compensation*1	Manual control of IR focus compensation				
Video Analytics*9	Abandoned object, intrusion detection, camera sabotage, wrong direction, loitering detection, object	counting,			
	object removal, stopped vehicle				
Video Motion Detection	Variable sensitivity and area masking				
Audio Detection**	Variable detection level and time interval				
Event Notification	HTTP / FTP / SMTP				
Local Recording*® Direct to SD card (Synectics Intelligent Edge Recording (SIER))					

Image Sensor1/2.8" Progressive CMOS sensorSignal SystemFHD 1080p 25/30 fpsEffective Pixels2065 (H) x 1553 (V). Approximately 3 megapixelsZoom Range33x optical zoomZoom Range(up to 330x with digital zoom)Focal Length/Aperture4.6 mm (wide) to 152mm (tele)Angle of View (H)55° (wide) to 2° (tele)Minimum Illumination0.1 lux(Color)0.1 luxMinimum Illumination0.002 luxWide Dynamic RangeTrue WDR (120 dB)Electronic ShutterAuto (1/1 to 1/10,000 s)Noise Reduction3D, 2D, colorDigital zoom, auto/manual focus, auto/manual iris, auto/manual day/night mode with IR cut filter remove (ICR), auto/ manual exposure, automatic gain control (AGC), auto/manual white balance (AWB), backlight compensation (BLC),						
Signal System FHD 1080b 2550 r/s Effective Note: CODE 5510 r/s continuation 2 mergapowels Content Barces Code 56 H vs 15510 r/s continuation 2 mergapowels Read Langth/Aparture Code 56 H vs 15510 r/s continuation 2 mergapowels Read Langth/Aparture Code 6 H vs 15510 r/s continuation 2 mergapowels Angle of View (H) Distribution Angle of View (H) Distribution Minimum Illumination Code 0 r/s Minimum Illumination Code 7 merces Minimum Illumination Code 7 merces Distribution 2 merces Distribution 2 merces Moles Paduction Distribution 2 merces Distribution 2 merces Distribution 2 merces Distribution 2 merces Distribution 2 merces Compression Standards H 284 (MPEC4 part 10/ACD high and main profiles Encoding Capability Up to 4 independently contigurable encoded vides streams Stream 1: OXCA (2004 x 1552) OXCA (120 x 120 x	DAY/NIGHT CAMERA / LENS					
Effective Pixels Q005 (01 x 1573 V). Approximately 3 megaposels Zoom Range (up to 330x with digitel acom) Pocal Length/Aperture 4.6 mm widel to 152/mm telelo Angle of View (H)	0					
Com Handel Construction Com Handel (Lip to 30x with digital zom) Focal Length/Aperture 4.6 mm (wide) to 152/mm (tele) Angle of View (H) 65' (wide) to 2* (tele) Minimum Illumination 0.11 kx (Cold) 0.10 kx Minimum Illumination 0.002 lix Moria D 0.000 lix Mide Dynamic Bange True WDR (100 dB) Electronic Shutter Auto (1/1 to 1/0,000 s) Pattures Digital zoom, auto/manual fice, auto/manual kis, auto/manual with Balance (MB) Murres Moria Murres Manual focus, auto/manual kis, auto/manu						
Continues (up to 30x with digital zoom) Focal Length/Apetrure 4.6 mm (vide) to 152mm tele) Angle of Nov (th) 55' (vide) to 2'' (tole) Minimum Illumination 0.002 lux Minimum Illumination 0.002 lux Minimum Illumination 0.002 lux Wide Dynamic Range Ture WDR (120 dB) Electronic Shutter Auto (11 to 1'/000 s) Noise Reduction 30, 2D, color Digital zoom, auto/manual focus, automanual withe balance (AWB), backlight compensation (BLO, auto slow shutter, manual sharpness/contras/isaturation/fue, manual exposure compensation, image tamper alarm, image trained response automatic gain control (AGC), automanual withe balance (AWB), backlight compensation (BLO, auto slow shutter, manual sharpness/contras/isaturation/fue, manual exposure compensation, image tamper alarm, image tamper alarm, image trained (CBR), Variable Britate (VCBR), Cond WEGE Compression Standards H.264 (MPEG4 part 10/AVC) high and main profiles Compression Standards Stream 1: (XCA (2008 x 1580) 1000 pt (120 x 120, x 720, r20 x 720, r20 x 720, r20 x 720, r20 pt (128 x 720, r20 y r20 x 720, r20 y r20 y r20 x 720, r20 y r20						
FaceI Length/Aperture 4.6 mm (wide) to 152mm (fiele) Angle of View (H) 55° (wide) to 2° (tele) Minimum Illumination 0.1 Lw (Calor) 0.1 Lw Minimum Illumination 0.002 Lw Worke Dynamic Range Ture WDR (120 dB) Electronic Shutter Auto (1/1 to 1/0,000 s) Noise Reduction 0.3 2.0 zoor Peatures Digital zoom, auto/manual focus, suto/manual fixis, auto/manual day/night mode with IR cut filter remove (ICR), autor Features Digital zoom, auto/manual focus, suto/manual fixis, auto/manual day/night mode with IR cut filter remove (ICR), autor Features Digital zoom, auto/manual focus, suto/manual fixis, auto/manual apy/night mode with IR cut filter remove (ICR), autor Fuel ENCODING Compression Standards H 284 (MPEC4 part 10/AVC) high and main profiles Compression Standards H 284 (MPEC4 part 10/AVC) high and main profiles 1000000000000000000000000000000000000	Zoom Range					
Marinam Illumination (Color) Minnyam Illumination (Mono) Mono) Mono) Mono Mono) More Dynamic Range Electronic Shutter Digital zoom, auto/manual focus, auto/manual iris, auto/manual day/injoht mode with IR out filter remove (ICR) auto/ manual exposure, automatic gain control (AGC), auto/manual day/injoht mode with IR out filter remove (ICR) auto/ manual exposure, automatic gain control (AGC), auto/manual day/injoht mode with IR out filter remove (ICR) auto/ manual exposure, automatic gain control (AGC), auto/manual day/injoht mode with IR out filter remove (ICR) auto/ manual exposure, automatic gain control (AGC), auto/manual day/injoht mode with IR out filter remove (ICR) auto/ manual exposure, automatic gain control (AGC), auto/manual day/injoht mode with IR out filter remove (ICR) auto/ features VIEED ELVCODING VIEED ELVCODING VIEED ELVCODING VIEED ELVCODING Compression Standards Britate Mode Constrate Brate (CBR), Variable Britate (MBR), Low Birrate (LBR) Encoding Capability Up to 4 independently configurable encoded video streams Stream Birtate ¹⁴ Stream 11 (OXSA (2048 x 1556) 10800 (1920 x 1080), SXG4 (1280 x 1024), 7200, 1280 x 720), SXG4 (1800 x 600), DI 1/20 x 480) Image Resolution ¹⁴ Stream 2/24 additional resolutions: CXSA (2048 x 1536) 10800 (1920 x 1080), SXG4 (1280 x 1024), 720, 1280 x 720), SXG4 (1280 x 72	Focal Length/Aperture					
(Color) 0.1 lux Minimum Illumination (Mono) 0.002 lux Wide Dynamic Range True WDR (120 dB) Electronic Shutter Auto (1/1 to 1/0,000 s) Noise Reduction Digital 2000, auto/manual focus, auto/manual day/light mode with IR cut filter remove (ICR), auto/ manual exposure, automatic gain control (AGC), auto/manual day/light mode with IR cut filter remove (ICR), auto/ manual exposure, automatic gain control (AGC), auto/manual day/light mode with IR cut filter remove (ICR), auto manual exposure, automatic gain control (AGC), auto/manual dayosure compensation, image tamper alam, auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation (BLC), auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation, image tamper alam, image rotation VIDEO ENCODING Compression Standards H.284 (MPEG4 part 10/AVC) high and main profiles Encoding Capability Up to 4 independently configurable Bitrate (UBR), Encoding Capability Up to 4 independently configurable encoded video streams Stream 1: 0XGA (2008 x 1536) 1060 (1920 x 1060), SXGA (1200 x 1020, 720), SX		55° (wide) to 2° (tele)				
(Mono) 0.002 kx Wide Dynamic Range Tue WDR (120 dB) Electronic Shutter Auto (1/1 to 1/10.000 s) Noise Reduction 3D, 2D, color Peatures Digital zoom, auto/manual devolosus, auto/manual day/night mode with IR out filter remove (ICR), auto, manual exposure compensation (BLC), auto slow shutter, manual sharpness/contrast/saturation/hue, manual daysbuster compensation (BLC), auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation (BLC), auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation (BLC), auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation (BLC), auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation, image tamper alarm, image rotation VIECE ENCODING Electronic Standards H.264 (MPEG4 part 20H2VC), MJPEG Compression Standards H.264 (MPEG4 part 20H2VC), MJPEG Bitrate Mode Constant Bitrate (CBR), Variable Bitrate (VBR), Low Bitrate (LBR) Encoding Capability Up to 4 independently configurable encoded video streams Stream Bitrate * 64 kb/s to 20.48 Mb/s Image Resolution* Stream 2/3/4 additional resolutions: OXGA (2043 x 1536), f080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (600 x 600 x	(Color)	0.1 lux				
Electronic Shutter Auto (1/1 to 1/10,000 s) Noise Reduction 3D, 2D, color Digital zoom, auto/manual focus, auto/manual ins, auto/manual day/hight mode with IR cut filter remove (ICR), auto/ manual exposure, automatic gain control (AGC), auto/manual white balance (AWB), backlight compensation (ELC), auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation, image tamper alarm, image rotation VIDEO ENCODING Ecompression Standards H.264 (MPEG4 part 10/AVC) high and main profiles Compression Standards H.264 (MPEG4 part 2/HEVC), MUPEG Bitrate Mode Constant Bitrate (CBR), Variable Bitrate (NBR), Low Bitrate (LBR) Encoding Capability Up to 4 independently configurable encoded video streams Stream 1: @XGA (2048 x 1536) 102 (1720 x 480) Image Resolution** Stream 1: @XGA (2048 x 1536) Zieram 1: @XGA (2048 x 1536) 103 (1720 x 480) Image Rate** GA kLys to 2.04 8 Mb/s Compression Standards Stream 1: @XGA (2048 x 1536) Image Rate** Stream 1: @XGA (2048 x 1536) COP Structure 2040), (200 x 240) Image Rate** Configurable image source for encoding, Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING** Compression Standards ULAW, ALAW, AAC, PCM Compression Standards ULAW, ALAW, AAC, PCM Stream Bitrate 16 Kpps, 24 Kbps, 32 Kbps, 40 Kpps,		0.002 lux				
Noise Reduction 3D, 2D, color Peatures Digital zoom, auto/manual ficeus, auto/manual white balance (AWB), backlight compensation, (BLC), auto slow shutter, manual shappness/contrast/saturation/hue, manual exposure, automatic gain control (AGC), auto/manual white balance (AWB), backlight compensation, image tamper alarm, image rotation VIDEO ENCODING Encoding Capability H.264 (MPEG4 part 10/AVC) high and main profiles Encoding Capability Up to 4 independently configurable Bitrate (VBR), burk Bitrate (LBR) Encoding Capability Up to 4 independently configurable encoded video streams Stream Bitrate *4 64 ktb/s to 20.48 Mb/s Stream 1: (OXGA (2048 x 1536)) 1060p (1920 x 1080), SXGA (1280 x 1220), 720p, SVGA (800 x 600), D 1 (720 x 480), and VSGA (1280 x 1220, 720p, SVGA (800 x 600), D 1 (720 x 480), and VSGA (1280 x 1024), 720p (1280 x 720), SVGA (800 x 600), G 10 x 720, XGA (1024 x 758), SVGA (800 x 600), SGGA (1280 x 1024), 720p (1280 x 720), SVGA (800 x 600), G (1024 x 768), SVGA (1024 x 768), SVGA (800 x 600), G (120 x 240) Image Resolution*4 Stream 2/3/4 additional resolutions: CNGA (2048 x 1536), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), (320 x 240) Image Rate *4 HD (1 to 30), IPS GOP Structure Variable Region of Interest Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING** Compression Standards uLAW, ALAW, AAC, PCM <td>Wide Dynamic Range</td> <td colspan="4">True WDR (120 dB)</td>	Wide Dynamic Range	True WDR (120 dB)				
Digital zoom, auto/manual focus, auto/manual iris, auto/manual ady/hight mode with IR cut filter remove (ICR), auto/ manual exposure, automatic gain control (AGC), auto/manual white balance (AWB), backlight compensation (BLC), auto slow shutter, manual sharpness/contrast/staurator/hue, manual exposure compensation, image tamper alarm, image rotation VIDEO ENCODING H.264 (MPEG4 part 10/AVC) high and main profiles H.265 (MPEG4 part 2/HEVC), MJPEG Bitrate Mode Constant Bitrate (CBR), Variable Bitrate (VBR), Low Bitrate (LBR) Encoding Capability Up to 4 independently configurable encoded video streams Stream Bitrate** G4 kb/s to 20.48 Mb/s Stream 1: (OXGA (2048 x 1536)) 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), SVGA (800 x 600), D1 (720 x 480), VGA (400 x 480), nHD (640 x 360), (352 x 240, (320 x 240), VGA (640 x 480), nHD (640 x 360), (352 x 240, (320 x 240), VGA (640 x 480), nHD (640 x 360), (352 x 240, (320 x 240) Image Resolution** Stream 2/3/4 additional resolutions: OXGA (2484 x 1536), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), (960 x 644), D1 (720 x 480), NHD (640 x 480), nHD (640 x 360), (352 x 240, (320 x 240) Image Rate*4 HD (1 to 30) IPS GOP Structure Variable Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING*3 ULAW(A ALAW, AAC, PCM Compression Standards ULAW, ALAW, AAC, PCM Interface Options	Electronic Shutter	Auto (1/1 to 1/10,000 s)				
Features manual exposure, automatic gain control (AGC), autofmanual white balance (AWB), backlight compensation (BLC), auto slow shutter, manual sharpness/contrast/saturator/hue, manual exposure compensation, image tamper alarm, image rotation VIDEO ENCODING H.264 (MPEG4 part 10/AVC) high and main profiles Compression Standards H.264 (MPEG4 part 10/AVC) high and main profiles Bitrate Mode Constant Bitrate (CBR), Variable Bitrate (VBR), Low Bitrate (LBR) Encoding Capability Up to 4 independently configurable encoded video streams Stream Bitrate ¹⁴ G4 kb/s to 20.48 Mb/s Stream 1 (XXGA (2048 x 1536) 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), SVGA (800 x 600), D1 (720 x 480) Image Resolution ⁴⁴ Stream 23/4 additional resolutions: CXGA (2048 x 1536) 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 300), (352 x 240) Image Rate ⁴⁴ HD (1 to 30) IPS GOP Structure Variable Region of Interest Compression Standards LLAW, ALAW, ALAW, AAC, PCM Compression Standards ULAW, ALAW, ALAW, AAC, PCM Image Rate ⁴⁴ Compression Standards Ethernet (100Base-T, 10-Base-T), Auto duples, Auto/10/100 Interface Options Ethernet (100Base-T, 10-Base-T), Auto duples, Auto/10/100 Interface Options Ethernet (100Base-T, 10-Base-T), Auto du	Noise Reduction					
Compression Standards H.264 (MPEG4 part 10/AVC) high and main profiles H.265 (MPEG4 Hpart 2/HEVC), MJPEG Bitrate Mode Constant Bitrate (CBR), Variable Bitrate (VBR), Low Bitrate (LBR) Encoding Capability Up to 4 independently configurable encoded video streams Stream Bitrate ¹⁴ 64 kb/s to 20.48 Mb/s Image Resolution ¹⁴ Stream 1: (OXGA (2048 x 1536) 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 700), SVGA (800 x 600), D1 (720 x 480) Image Resolution ¹⁴ Stream 2/3/4 additional resolutions: OXGA (2048 x 1536), 1080p (1920 x 1080), VGA (640 x 480), nHD (640 x 360), (352 x 240) Image Rate ¹⁴ HD (1 to 30) IPS GOP Structure Variable Region of Interest Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING** ULAW, ALAW, AAC, PCM Compression Standards ULAW, ALAW, AAC, PCM Stream Bitrate 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, ULAW (64 Kbps), AAC (128 Kbps), PCM (128 Kbps), PCM (128 Kbps), PCM (256 kbps), PCM (38 Kbps), and PCM (768 Kbps) Network Devole UPA Interface Options Ethermet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100 Protocols IPV4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTF, IGMP, SNMP, FLS, PPPoE, OoS, UPAP, SMTP, FTP Contoto Protoco	Features	manual exposure, automatic gain control (AGC), auto/manual white balance (AWB), backlight compensation (BLC), auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation, image tamper alarm,				
Compression standards H.265 (MPEG-H part 2/HEVC), MJPEG Bitrate Mode Constant Bitrate (CBR), Variable Bitrate (VBR), Low Bitrate (LBR) Encoding Capability Up to 4 independently configurable encoded video streams Stream Bitrate ¹⁴ 64 kb/s to 20.48 Mb/s Image Resolution ¹⁴ Stream 1: (XGA (2048 × 1536)) 1080p (1920 × 1080), SXGA (1280 × 1024), 720p (1280 × 720), SVGA (800 × 600), D1 (720 × 480) Image Resolution ¹⁴ Stream 2/3/4 additional resolutions: 0XGA (2048 × 1536), 1080p (1920 × 1080), SXGA (1280 × 1024), 720p (1280 × 720), 720p (1280 × 720), XGA (1024 × 768), SVGA (800 × 600), (960 × 544), D1 (720 × 480), VGA (640 × 480), nHD (640 × 360), (352 × 240) Image Rate ¹⁴ HD (1 to 30) IPS GOP Structure Variable Region of Interest Ability to crop a selected area of the image source for encoding. Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING* ³ ULAW, ALAW, AAC, PCM Stream Bitrate 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, LLAW, (64 Kbps), AAC (128 Kbps), PCM (128 Kb	VIDEO ENCODING					
Encoding Capability Up to 4 independently configurable encoded video streams Stream Bitrate ^{*4} 64 kb/s to 20.48 Mb/s Stream 1: (OXGA (2048 x 1536) 1080p (1920 x 1020), XSGA (1280 x 720), SVGA (800 x 600), D1 (720 x 480) Image Resolution ^{*4} Stream 2/3/4 additional resolutions: OXGA (2048 x 1536), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), (960 x 544), D1 (720 x 480), VGA (640 x 480), nHD (640 x 360), (352 x 240), (320 x 240) Image Rate ^{*4} HD (1 to 30) IPS GOP Structure Variable Region of Interest Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING*3 ULAW, ALAW, AAC, PCM Compression Standards ULAW, ALAW, AAC, PCM Stream Bitrate 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, uLAW (64 Kbps), ALAW (64 Kbps), AC (128 Kbps), PCM (128 Kbps), PCM (256 Kbps), PCM (384 Kbps), and PCM (768 Kbps) Protocols IPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QoS, UPN, SMP, TLS, PPOE, QOS, UPN, SMP, FTP Control Protocol* SYNX-HD, ONVIF (Profile S, G, Compliant) Video Stream Delivery RTSP/RTP (Unicast: UDP/TCP, Multicast UDP) Network Discovery SYNX-HD, WS-Discovery (ONVIF) Device Security Permission based password protected we interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP fi	Compression Standards					
Stream Bitrate ⁴⁴ 64 kb/s to 20.48 Mb/s Stream 1: OXGA (2048 x 1536) 10800 (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), SVGA (800 x 600), D1 (720 x 480) Image Resolution ¹⁴ Stream 2/3/4 additional resolutions: OXGA (2048 x 1536), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), 1960 x 544), D1 (720 x 480) Image Rate ¹⁴ HD (1 to 30) IPS GOP Structure Variable Region of Interest Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING** ULAW, ALAW, AAC, PCM Compression Standards 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, ULAW (64 Kbps), ALAW (64 Kbps), AAC (128 Kbps), PCM (128 Kbps), PCM (128 Kbps), PCM (256 Kbps), PCM (384 Kbps), and PCM (768 Kbps) NETWORK DEVICE Unreface Options Interface Options Ethernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100 Protocols IPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPe, QoS, UPN, SMTP, FTP Control Protocol ¹⁹ SYNX-HD, ONVIF (Profile S, G, Toompliant) Video Stream Delivery RTSP/RTP (Unicast: UDP/TCP, Multicast UDP) Network Discovery SYNX-HD, WS-Discovery (ONVIF) Device Security Permission based password protected we bi infere and ONVIF/RTSP services, HTTP disable, IP filter, IEEE 802.1 x <	Bitrate Mode	Constant Bitrate (CBR), Variable Bitrate (VBR), Low Bitrate (LBR)				
Stream 1: QXGA (2048 x 1536) 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), SVGA (800 x 600), D1 (720 x 480) Image Resolution*4 Stream 2/3/4 additional resolutions: QXGA (2048 x 1536), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), (960 x 544), D1 (720 x 480) Image Rate*4 HD (1 to 30) IPS GOP Structure Variable Region of Interest Ability to crop a selected area of the image source for encoding. Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING** Compression Standards Compression Standards ILAW, ALAW, AAC, PCM Stream Bitrate 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, uLAW (64 Kbps), ALAW (64 Kbps), AAC (128 Kbps), PCM (128 Kbps), PCM (256 Kbps), PCM (284 Kbps), and PCM (768 Kbps) NETWORK DEVICE Interface Options Interface Options Ethernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100 Protocols IPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DUS, HTTP, ITTPS, NTP, ISP/RTP, IGMP, SNMP, TLS, PPOE, QoS, UP-PG, SMTP, FTP Control Protocol* SYNX-HD, ONVIF (Profile S, G, T compliant) Video Stream Delivery RTSP/RTP (Unicast: UDP/ICP, Multicast UDP) Network Discovery SYNX-HD, WS-Discovery (ONVIF) Device Security Permission based password protected we binterice and ONVIF/RTSP services, HTTPS support, HTTP disable,	Encoding Capability					
D1 (720 x 480)Image Resolution*4Stream 2/3/4 additional resolutions: OXGA (2048 x 1536), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), e60 x 544), D1 (720 x 480), VGA (640 x 480), nHD (640 x 360), (352 x 240), (320 x 240)Image Rate*4HD (1 to 30) IPSGOP StructureVariableRegion of InterestOption to increase/decrease encode quality of configurable image regions.AUDIO ENCODING*3ULAW, ALAW, AAC, PCMCompression StandardsULAW, ALAW, G4 Kbps), ALAW (64 Kbps), AAC (128 Kbps), PCM (256 Kbps), PCM (384 Kbps), and PCM (768 Kbps)NETWORK DEVICEInterface OptionsInterface OptionsEthernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100ProtocolsIPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QOS, UPN, SMTP, FTPControl Protocol*SYNX-HD, ONVIF (Protile S, G, T compliant)Video Stream DeliveryRTSP/RTP (Unicast: UDP/TCP, Multicast UDP)Network DiscoverySYNX-HD, WS-Discovery (ONVIF)Device SecurityPermission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, LEE 802, 1xSupported Internet BrowsersMicrosoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Stream Bitrate ^{*4}					
Image Resolution"4Stream 2/3/4 additional resolutions: OXGA (2048 x 1536), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), (960 x 544), D1 (720 x 480), VGA (640 x 480), nHD (640 x 360), (352 x 240)Image Rate"4HD (1 to 30) IPSGOP StructureVariableRegion of InterestAbility to crop a selected area of the image source for encoding. Option to increase/decrease encode quality of configurable image regions.AUDIO ENCODING*3Compression StandardsuLAW, ALAW, AAC, PCMStream Bitrate16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, uLAW (64 Kbps), ALAW (64 Kbps), AAC (128 Kbps), PCM (128 Kbps), PCM (256 Kbps), PCM (384 Kbps), and PCM (768 Kbps)NETWORK DEVICEInterface OptionsEthernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100ProtocolsIPv4/x6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QoS, UPAP, SMTP, FTPControl ProtocolsSYNX-HD, ONVIF (Profile S, G, T compliant)Video Stream DeliveryRTSP/RTP (Unicast: UDP/TCP, Multicast UDP)Network DiscoverySYNX-HD, WS-Discovery (ONVIF)Device SecurityPermission based password protected web interface and ONVIF/RTSP services, HTTP disable, IP filter, IEEE 802.1xSupported Internet BrowsersMicrosoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari						
Image Rate*4HD (1 to 30) IPSGOP StructureVariableRegion of InterestAbbility to crop a selected area of the image source for encoding. Option to increase/decrease encode quality of configurable image regions.AUDIO ENCODING*3Compression StandardsuLAW, ALAW, AAC, PCMStream Bitrate16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, uLAW (64 Kbps), ALAW (64 Kbps), AAC (128 Kbps), PCM (128 Kbps), PCM (256 Kbps), PCM (384 Kbps), and PCM (768 Kbps)NETWORK DEVICEInterface OptionsEthernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100ProtocolsIPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QoS, UPnP, SMTP, FTPControl Protocol*SYNX-HD, QNVIF (Profile S, G, T compliant)Video Stream DeliveryRTSP/RTP (Unicast: UDP/TCP, Multicast UDP)Network DiscoverySYNX-HD, WS-Discovery (ONVIF)Permission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1xSupported Internet BrowsersMicrosoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Image Resolution*4	Stream 2/3/4 additional resolutions: QXGA (2048 x 1536), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), (960 x 544), D1 (720 x 480), VGA (640 x 480), nHD (640 x 360), (352 x				
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Hegion of Interest Option to increase/decrease encode quality of configurable image regions. AUDIO ENCODING*3 uLAW, ALAW, AAC, PCM Compression Standards uLAW, ALAW, AAC, PCM Stream Bitrate 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, uLAW (64 Kbps), ALAW (64 Kbps), AAC (128 Kbps), PCM (128 Kbps), PCM (256 Kbps), PCM (384 Kbps), and PCM (768 Kbps) NETWORK DEVICE Interface Options Ethernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100 Protocols IPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QoS, UPnP, SMTP, FTP Control Protocol ¹⁶ SYNX-HD, ONVIF (Profile S, G, T compliant) Video Stream Delivery RTSP/RTP (Unicast: UDP/TCP, Multicast UDP) Network Discovery SYNX-HD, WS-Discovery (ONVIF) Device Security Permission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1x Supported Internet Browsers Microsoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	-	Variable				
AUDIO ENCODING*3 Compression Standards uLAW, ALAW, AAC, PCM Stream Bitrate 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, uLAW (64 Kbps), ALAW (64 Kbps), AAC (128 Kbps), PCM (128 Kbps), PCM (256 Kbps), PCM (384 Kbps), and PCM (768 Kbps) NETWORK DEVICE Interface Options Ethernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100 Protocols IPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QoS, UPnP, SMTP, FTP Control Protocol ¹ 6 SYNX-HD, ONVIF (Profile S, G, T compliant) Video Stream Delivery RTSP/RTP (Unicast: UDP/TCP, Multicast UDP) Network Discovery SYNX-HD, WS-Discovery (ONVIF) Device Security Permission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1x Supported Internet Browsers Microsoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Region of Interest					
Compression StandardsuLAW, ALAW, AAC, PCMStream Bitrate16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps, uLAW (64 Kbps), ALAW (64 Kbps), AAC (128 Kbps), PCM (128 Kbps), PCM (256 Kbps), PCM (384 Kbps), and PCM (768 Kbps)NETWORK DEVICEInterface OptionsEthernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100ProtocolsIPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, SNTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QoS, UPnP, SMTP, FTPControl Protocol °SYNX-HD, ONVIF (Profile S, G, T compliant)Video Stream DeliveryRTSP/RTP (Unicast: UDP/TCP, Multicast UDP)Network DiscoverySYNX-HD, WS-Discovery (ONVIF)Device SecurityPermission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1xSupported Internet BrowsersMicrosoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari		Option to increase/decrease encode quality of configurable image regions.				
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Stream Bitrate(256 Kbps), PCM (384 Kbps), and PCM (768 Kbps)NETWORK DEVICEInterface OptionsEthernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100ProtocolsIPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QoS, UPnP, SMTP, FTPControl Protocol)6SYNX-HD, ONVIF (Profile S, G, T compliant)Video Stream DeliveryRTSP/RTP (Unicast: UDP/TCP, Multicast UDP)Network DiscoverySYNX-HD, WS-Discovery (ONVIF)Device SecurityPermission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1xSupported Internet BrowsersMicrosoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Compression Standards					
Interface OptionsEthernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100ProtocolsIPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, DNS, DDNS, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, TLS, PPPoE, QoS, UPnP, SMTP, FTPControl Protocol*SYNX-HD, ONVIF (Profile S, G, T compliant)Video Stream DeliveryRTSP/RTP (Unicast: UDP/TCP, Multicast UDP)Network DiscoverySYNX-HD, WS-Discovery (ONVIF)Device SecurityPermission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1xSupported Internet BrowsersMicrosoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Stream Bitrate					
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Protocols UPnP, SMTP, FTP Control Protocols SYNX-HD, ONVIF (Profile S, G, T compliant) Video Stream Delivery RTSP/RTP (Unicast: UDP/TCP, Multicast UDP) Network Discovery SYNX-HD, WS-Discovery (ONVIF) Device Security Permission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1x Supported Internet Browsers Microsoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Interface Options	Ethernet (100Base-T, 10-Base-T), Auto duplex, Auto/10/100				
Video Stream Delivery RTSP/RTP (Unicast: UDP/TCP, Multicast UDP) Network Discovery SYNX-HD, WS-Discovery (ONVIF) Device Security Permission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1x Supported Internet Browsers Microsoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Protocols					
Network Discovery SYNX-HD, WS-Discovery (ONVIF) Device Security Permission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1x Supported Internet Browsers Microsoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Control Protocol ^{*6}	SYNX-HD, ONVIF (Profile S, G, T compliant)				
Device Security Permission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IP filter, IEEE 802.1x Supported Internet Browsers Microsoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	,					
Device Security IEEE 802.1x Supported Internet Browsers Microsoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari	Network Discovery					
	Device Security					
System Maintenance Field upgradeable firmware, diagnostic logs						
	System Maintenance	Field upgradeable firmware, diagnostic logs				

NOTE: *1 Dependent on certification and equipment fitted. *2 Wipers are consumable items that need regular replacement. Please refer to the manual for recommendations and maintenance. *3 Dependent on cable tail option. *4 Maximum permissible resolution, bitrate and framerate per additional stream will be reduced dependent on the configuration of the primary stream. *5 Exact certification requirements must be specified at the time of order. *6 A supported SD memory card is required for profile G, please refer to the manual for recommendations. *9 Video analytics feature requires a separate license. Use of video analytics may require a reduced ambient temperature range.

PART CODE STRUCTURE						
	C2 - A B C - E	E - F G H J				
(Example)	C2 - 1 F 33 - V	V - L 1 E X				
A - CAMERA HOUSING SIZE 1 Size 1 camera housing			J- SPECIAL Standard build			
B - FIXED/PTZ F Fixed			X Special build H-OUTPUT TRANSMISSION TYPE			
C - DAY/NIGHT CAMERA 33 FHD, 33x zoom			E Ethernet Base-T			
			G - BASE/MOUNTING TYPE			
			Standard fixed mounting 1 Alternative fixed mounting			
E-WIPER			F-TECHNOLOGY SERIES L LE Series, IP encoder			
Without wiper W Standard wiper						

B Brush wiper



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