COEX[™] C2000 4K IP PTZ Camera Station with Integrated Junction Box

The COEX[™] C2000 4K IP PTZ Camera Station with Integrated Junction Box 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.



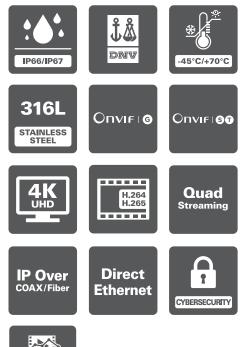
The COEX C2000 marine camera stations are manufactured from the highest-grade, corrosion-resistant, electro-polished 316L stainless steel. They are designed for toughness and durability to operate in the most adverse environments, from freezing temperatures to the blistering heat of desert conditions.

This advanced camera station combines 4K video with a 22x optical zoom to deliver high-quality image and detail capture.

The self-contained junction box also accommodates the management of fiber optic cores, power supply, and optional media converters for signal transmission via direct entry and termination of field cables. This camera station is a versatile choice for pre-existing systems, ensures a straightforward installation process, and is 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
- Continuous rotation
- Integral fiber optic transmission
- Various voltage options 24 V AC/DC and (100 to 240) V AC
- Fiber and copper 3-port switch*1
- Ethernet over coax media converter
- Video analytics *9





SYNECTICS

Specifications

CERTIFICATIONS / RATINGS*7		[OPTIONS]			
EMC	EN61000-6-2, EN 61	I000-6-4 Class A limits			
CE/UKCA	IEC62368-1, IEC60825-1				
DNV	TAA00001M2 Iss 3				
ENVIRONMENTAL					
Operating Temperature	-45°C to +60°C [+70°C] /-49°F to +140°F [+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				
Vibration	0.7 g to IEC60068-2-6 & IEC60945				
Wind Loading	Operational to 130 km/h, survival to 268 km/h				
3					
MECHANICAL Material	Electro.polished 2	216L stainless steel			
Window	Electro-polished 316L stainless steel 4K grade toughened glass, thermostatically operated demister [Wiper*2]				
Pan Turning Circle	Ø 530 mm / 20.87"				
Tilt Turning Circle	Ø 360 mm / 14.17"				
Mounting Orientation	Upright or inverted				
Mounting Base	8 x M8 tapped holes, equispaced on a 4" (101.6 mm) P.C.D.				
Dimensions ^{*1} (W x D x H)	452 mm x 310 mm x 363 mm / 17.80" x 12.21" x 14.29"				
Weight ^{*1}	452 min x 310 min x 305 min 7 7,800 x 12.21 x 14.29 22 kg / 48.5 lbs				
Cable Gland Entries ^{*3}	3 x M20 / [3 x M25] / [3 x ½" NPT]				
ELECTRICAL	Integrated PSU	[Without Integrated PSU]			
Input Power Options	(100 to 240) V AC 50/60 Hz	24 V AC/DC (±10%) 50/60 Hz			
Power Rating	1.5 A max @ 100 V (Inrush 30 A max)	- 11 VA Quiescent			
Power Consumption*1	40 VA Quiescent 89 VA Operating (with heater) 115 VA Max	71 VA Operating 84 VA Operating (with heater) 100 VA Max			
Wash Control ^{*1/4}	24 V DC (0.75 A max) switched output [Volt free (2.5 A 250 V AC max) switched output] [Switch live (0.2 A Integrated PSU only) with neutral output]				
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	362° Rotation	[Continuous Rotation]			
Pan Operation	0° to 42°/sec, mechanical limits,	0° to 42°/sec, programmable soft-stops,			
	programmable soft-stops, preset positioning	preset positioning			
Tilt Operation	180° Rotation, 0° to 21°/sec, mechanical limits, programmable soft stops, preset positioning				
Preset Memory	128 user programmable preset positions (pan, tilt, zoom)				
Preset Accuracy	<0.05° [Optional wash/wipe with auto-wiper off]				
Wash/Wipe*1					
ONVIF Control Features	PTZ control, focus control, preset store/recall, auxiliary controls (wash/wipe/lamps) Imaging settings Control Features [Alarm input]				
	outputs 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				
Event Notification	HTTP / FTP / SMTP				
Audio Detection*3	Variable detection level and time interval				
Local Recording*8		o SD card			
	Synectics Intelligent	Edge Recording (SIER)			

DAY/NIGHT CAMERA / LENS			4/4 6 " 5	01462			
Image Sensor				ve CMOS sensor			
Signal System	4K 2160p 25/30 fps FHD 1080p 25/30/50/60 fps						
Effective Pixels	3864 (H) x 2180 (V), Approximately 8 megapixels						
Zoom Range	22x optical zoom						
0	(up to 220x with digital zoom)						
Focal Length/Aperture	6.4 mm (wide) to 138.5 mm (tele), F1.5 to F3.4						
Angle of View (H) Minimum Illumination	64° (wide) to 3° (tele)						
(Color)	0.4 lux						
Minimum Illumination	0.002 lux						
(Mono) Wide Dynamic Range							
Electronic Shutter	True WDR (120dB)						
Noise Reduction	Auto (1/1 to 1/10,000 s) 3D, 2D, color						
NOISE NEGUCION	Digital zoom, auto	/manual focus auto	,	,	e with IR cut filter re	emove (ICR) auto	
Features	Digital 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), auto slow shutter, manual sharpness/contrast/saturation/hue, manual exposure compensation, image tamper alarm, image rotation						
/IDEO ENCODING							
Compression Standards		H.264		VC) high and main p	rofiles		
	H.265 (MPEG-H part 2/HEVC), MJPEG						
Bitrate Mode	Constant Bitrate (CBR), Variable Bitrate (VBR), Low Bitrate (LBR)						
Encoding Capability Stream Bitrate ^{*4}	Up to 4 independently configurable encoded video streams 164 kb/s to 20.48 Mb/s						
Stream Bitrate *	Stream 1. LIHD	(3840 v 2160) OHD	,	, -	GA (1280 × 1024) 72	$20n(1280 \times 720)$	
mage Resolution*4	Stream 1: UHD (3840 x 2160), QHD+ (3200 x 1800), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720) Stream 2/3/4 additional resolutions: XGA (1024 x 768), SVGA (800 x 600), D1 (720 x 480), VGA (640 x 480), (352 x 240), (320 x 240)						
mage Rate ^{*4}	4K (1 to 30), HD (1 to 60) 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*1/3							
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							
nterface Options ^{*5}		Ethernet	(100Base-T, 10-Base	e-T), Auto duplex, Au	to/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	SYNX-HD, ONVIF (Profile S, G, T compliant)						
Video Stream Delivery Network Discovery	RTSP/RTP (Unicast: UDP/TCP, Multicast UDP)						
,	SYNX-HD, WS-Discovery (ONVIF) Permission based password protected web interface and ONVIF/RTSP services, HTTPS support, HTTP disable, IF						
Device Security	filter, IEEE 802.1x						
Supported Internet Browsers	Microsoft Internet Explorer 11.0 or later / Mozilla Firefox / Google Chrome / Apple Safari						
System Maintenance		Fi	eld upgradeable firn	nware, diagnostic log	js		
FIBER OPTICS]*5	100FxLP	100Fx/20km	100Fx/30km	100WLFxA	1000Lx	1000WLxA	
Optical Interface	100FxLP	100Fx/20km 100Base-Fx	100Fx/30km 100Base-Fx	100WLFXA 100Base-Fx	1000Lx 1000Base-Lx	1000WLXA	
Fibers Required	Dual	Dual	Dual	Single	Dual	Single	
Wavelength	1310 nm	1310 nm	1310nm	Tx 1310 nm	1310 nm	Tx 1310 nm	
Transmit Optical Power	(-20 to -10) dBm	(-15 to -8) dBm	(-5 to 0) dBm	Rx 1550 nm (-14 to -8) dBm	(-9 to -3) dBm	Rx 1550 nm (-9 to -3) dBr	
Receive Sensitivity	< -31 dBm	< -31 dBm	< -31 dBm	< -33 dBm	< -22 dBm	< -22 dBm	
Standard Optical Link Budget	> 11db	> 16 db	> 26dB	> 19 db	> 13 db	> 13 db	
Optical Connector	LC	LC	LC	SC	LC	SC	
Fiber Management	Integral fiber management with termination capacity for spare fiber cores						
		[Link loss forwardir			Link loss forwardi		

[MEDIA CONVERTER]*5	Ethernet over Coax			
Connectivity	Auto-optimizing for 75 Ω coaxial cable:			
	280m (920ft) full-rate over video-grade RG-59 (Up to 350m depending on cable quality)			
	350m (1150ft) full-rate over RG-6			
	500m (1640ft) full-rate over RG-11			
Interface Data Rate	Auto-configuring for speed (10BASE-T or 100BASE-T) and duplex			
Features	Retrofit existing analog CCTV installations to Ethernet-based systems, allow the connectivity of camera stations			
	outside the permitted run length of 100Base-Tx Ethernet cabling			

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 Wash output relay option shall be specified at the time of order. *5 Exact interface option and media type must be specified at the time of order. Maximum transmission distance dependent on cable infrastructure quality and integrity. *6 Maximum permissible resolution, bitrate and framerate per additional stream will be reduced dependent on the configuration of the primary stream. MJPEG limited to HD resolution. *7 Exact certification requirements must be specified at the time of order. *8 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 А В С D Е F G Н J Е X (Example) C2 1 V 22 W Е 3 **A - CAMERA HOUSING SIZE** J - SPECIAL Standard build Size 1 camera housing 1 X Special build **B-FIXED/PTZ** H-OUTPUT TRANSMISSION TYPE С PTZ - Continuous pan V PTZ - Non-continuous pan С Coax U UTP C-DAY/NIGHT CAMERA Е Ethernet Base-T 22 4K UHD, 22x zoom S Singlemode fibre Multimode fibre Μ D-THERMAL IMAGING MODULE **G - BASE/MOUNTING TYPE** N/A 3 Base type 3 (with PSU) Base type 4 (without PSU) 4 **F-TECHNOLOGY SERIES** E-WIPER L LE Series, IP encoder Without wiper W Standard wiper

B Brush wiper



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