COEX™ C2000 4K LE IP PTZ Camera Station

The COEX™ C2000 4K LE IP PTZ
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 4K video with a 22x 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
- Continuous rotation
- Video analytics*9



























Specifications

CERTIFICATIONS / RATINGS*5		[OPTIONS]
cCSAus	CLASS 3862 66, CLASS 3862 96, CAN/CSA C22.2 No.62368-1, UL No.62368-1	
EMC (US & Can.)	FCC CFR47 Part 15 Class A, ICES-003 Class A	
EMC	EN61000-6-2, EN61000-6-4 Class A limits	
CE / UKCA	IEC62368-1	
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	0.7g to IEC60068-2-6 & IEC60945
Wind Loading	Operational to 130 km/h, survival to 268 km/h

MECHANICAL	
Material	Electro-polished 316L stainless steel
Window	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	4 x M8 tapped holes, equispaced on a 4" (101.6 mm) P.C.D.
Dimensions*1 (W x D x H)	363 x 310 x 338 mm / 14.29" x 12.21" x 13.31"
Weight*1	16 kg / 35.3 lbs
Cable Gland Entries	1 x M20
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ELECTRICAL	
Input Power Options	24 V AC/DC (±10%) 50/60 Hz
Power Consumption*1	11 VA Quiescent 84 VA Operating (with heater) 100 VA Max
Wash Control*1	24 V AC/DC (0.75 A max) switched 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, programmable soft-stops, preset positioning	0° to 42°/sec, programmable soft-stops, 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	<0.0	5°
Wash/Wipe*1	[Optional wash/wipe v	with auto-wiper off]
ONVIF Control Features	PTZ control, focus control, preset store/rec Imaging s [Alarm ii Relay ou Event me	ettings nput] itputs
IR Lamp Control*1	Manual/auto control of	a connected IR lamp
IR Focus Compensation*1	Manual control of IR fo	ocus compensation
Video Analytics*9	Abandoned object, intrusion detection, camera sabotage, w removal, stop	
Video Motion Detection	Variable sensitivity a	and area masking
Event Notification	HTTP / FTP	P/SMTP
Audio Detection*3	Variable detection leve	el and time interval
Local Recording*8	Direct to S Synectics Intelligent Ed	

DAY/NIGHT CAMERA / LENS	\$
Image Sensor	1/1.8" Progressive 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 (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)	64° (wide) to 3° (tele)
Minimum Illumination (Color)	0.04 lux
Minimum Illumination (Mono)	0.002 lux
Wide Dynamic Range	True WDR (120 dB)
Electronic Shutter	Auto (1/1 to 1/10,000 s)
Noise Reduction	3D, 2D, color
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

VIDEO ENCODING	
Compression Standards	H.264 (MPEG4 part 10/AVC) high and main profiles 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*4	164 kb/s to 20.48 Mb/s
Image 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)
Image 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*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*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
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. MJPEG limited to HD resolution. *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 Α В С Ε F G Н 22 W (Example) C2 **A-CAMERA HOUSING SIZE** J - SPECIAL Size 1 camera housing Standard build X Special build B-FIXED/PTZ H-OUTPUT TRANSMISSION TYPE PTZ - Continuous pan E Ethernet Base-T PTZ - Non-continuous pan C - DAY/NIGHT CAMERA 4K UHD, 22x zoom **G-BASE/MOUNTING TYPE** Standard PTZ mounting F-TECHNOLOGY SERIES E-WIPER L LE Series, IP encoder Without wiper W Standard wiper В Brush wiper