

COEX™ C2000 HD IP Fixed Camera Station

The COEX™ C2000 HD 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 premium-performance camera station combines Full HD (1080p) video with 30x optical zoom to provide exceptional image quality even in low light conditions.

Featuring the latest encoding technology (2nd generation IP encoder), the camera station is capable of triple-stream H.264 and H.265 encoding for simultaneous live view and recording.

The C2000 HD IP Fixed Camera Station has cybersecurity measures built-in, including encrypted video streaming, HTTPS, and 802.1x protocols.

COEX camera stations are compatible with a variety of VMS platforms through ONVIF Profile S and T compliance.

Options

- Integral wiper
- COEX MEWS5 wash systems
- IR lamp*1

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	
C-TICK	On Request	
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, Type 6 Enclosure	
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	
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 x Ø 10.5 mm / 0.41" fixing hole	
Dimensions (W x D x H) ¹¹	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 8 VA Quiescent 11 VA Operating 24 VA Operating (with heater) 27 VA Max	
Power Consumption ¹¹		
Wash Control ¹¹	Volt free switched output (24 V 0.75 A max)	
Auxiliary Inputs ³	1 x contact closure input (5 V pull up) [up to 4 available on request]	
Relay Outputs ³	1 x volt free switched output (24 V 0.75 A max) [up to 2 available on request]	
Audio ³	[Line Input]	
CAMERA OPERATION		
Preset Memory	128 user programmable preset positions (zoom, focus)	
Wash/Wipe ¹¹	[Optional wash/wipe with auto-wiper off]	
ONVIF Control Features	Zoom and focus control, preset store/recall, auxiliary controls (wash/wipe/lamps/auto focus), wash/wipe and lamps control mappable to ONVIF presets for control systems that have no support for auxiliary commands, alarm inputs, and relay outputs	
IR Lamp Control ¹¹	Manual/auto control of a connected IR lamp	
IR Focus Compensation ¹¹	Manual/auto control of IR focus compensation and automatic compensation of focus preset positions	

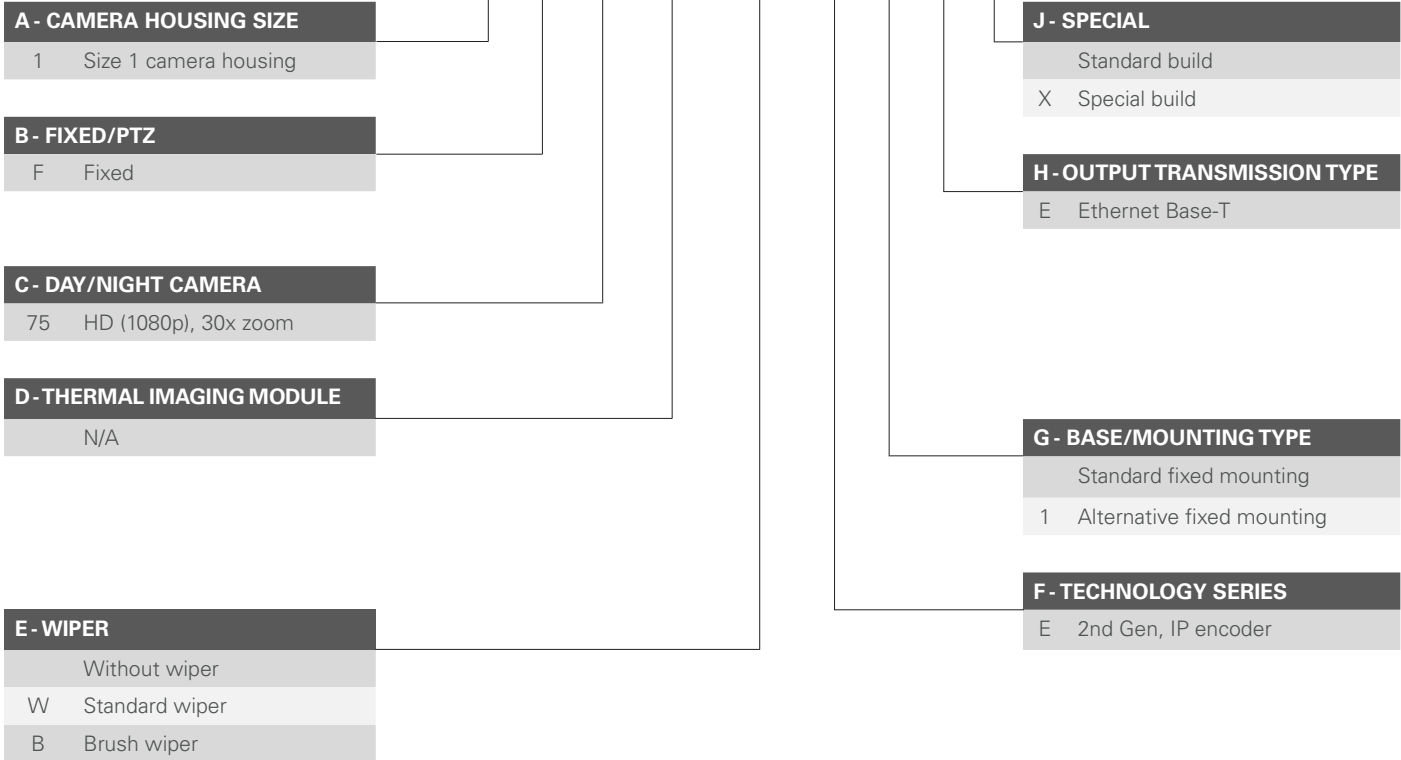
DAY/NIGHT CAMERA / LENS	
Image Sensor	1/2.8" Progressive scan Exmor CMOS sensor
Signal System	1080p 25/30/50/60 FPS
Effective Pixels	Approximately 2.13 megapixels
Zoom Range	30x zoom (up to 360x with digital zoom)
Focal Length/Aperture	4.3 mm (wide) to 129 mm (tele), F1.6 to F4.7
Angle of View (H)	63.7° (wide) to 2.3° (tele)
Minimum Illumination (50IRE, ICR OFF)	0.1 lux (1/30 s, Slow Shutter Off, High Sensitivity Off), 0.01 lux (1/30 s, Slow Shutter Off, High Sensitivity On), 0.013 lux (Slow Shutter 1/4 s, High Sensitivity Off), 0.0012 lux (Slow Shutter 1/4 s, High Sensitivity On)
Minimum Illumination (50IRE, ICR ON)	0.006 lux (Slow Shutter Off, High Sensitivity Off), 0.0015 lux (Slow Shutter Off, High Sensitivity On)
Minimum Illumination (30IRE, ICR ON)	0.0008 lux (Slow Shutter 1/4 s, High Sensitivity On)
Wide Dynamic Range	On/off, 130 dB @ 1080p30
Electronic Shutter	Auto (1/1 to 1/10,000 s, 22 steps)
Signal/Noise Ratio	> 50 db (weight on)
Features	Digital zoom on/off, auto/manual focus, auto/manual iris, auto/manual IR cut filter remove (ICR), auto exposure (AE), automatic gain control (AGC), auto white balance (AWB), backlight compensation (BLC), auto slow shutter, wide dynamic range (WDR), anti-shake, defog, on-screen text display (OSD), image invert
Image Stabilization	EIS
VIDEO ENCODING	
Compression Standards	H.264 (MPEG4 part 10/AVC) high, main, base profiles H.265 (MPEG-H part 2/HEVC), MJPEG
Bitrate Mode	Constant Bitrate (CBR), Variable Bitrate (VBR)
Encoding Capability	Up to 3 independently configurable encoded video streams
Stream Bitrate*4	100 kb/s to 25 Mb/s
Image Resolution*4	Full HD 1080p (1920 x 1080), 720p (1280 x 720), D1 (720 x 576/480), 4CIF (704 x 576), CIF (352 x 288)
Image Rate*4	HD (up to 60 IPS)
GOP Structure	I-frame only, 5 to 240 frames
Region of Interest (ROI)	Configurable per encoded video stream, ability to crop a selected area of the image source for encoding (variable resolution and aspect ratio)
AUDIO ENCODING	
Compression Standards	ARM AACLC, ARM AACLC MPEG2, ARM AACHE, ARM AACHE V2
Sample Rate	48 kHz, 44.1 kHz, 32 kHz, 16 kHz
Stream Bitrate	12 to 384 kb/s (AACHE and AACHE V2 32 to 64 kb/s)
NETWORK DEVICE	
Interface Options	Ethernet (100Base-T, 10-Base-T), Auto/full/half duplex, Auto/10/100, Configurable MTU Size
Protocols	TCP/IP, UDP, ICMP, DHCP, DNS, HTTP, HTTPS, NTP, RTSP/RTP/RTCP, TSRTSP, RTMP, RTMPS, SRT, IGMP, SNMP, SYNS, SSL, TLS, 802.1x (EAP)
Control Protocol	SYNS, ONVIF (Profile S, T compliant)
Video Stream Delivery	RTSP/RTP (Unicast: UDP/TCP, Multicast UDP), TSRTSP, RTMP, RTMPS, SRT
Network Discovery	SYNS, WS-Discovery (ONVIF)
Device Security	Multiple users and 7 access levels protecting access to the web interface, ONVIF and RTSP services, HTTPS support, HTTP disable, 802.1x (EAP), video streaming disabled until change of default password, unicast stream disable
Supported Internet Browsers	Chrome/Firefox/IE/Edge (No Active-X browser components required)
System Maintenance	Field upgradeable firmware, diagnostic logs Hardware system supervisor providing temperature management, cold-start, auto-shutdown and watchdog control

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.

PART CODE STRUCTURE

C2 - A B C D - E - F G H J

(Example) C2 - 1 F 75 - W - E 1 E X



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Specifications subject to change. E & OE.
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MANUFACTURER OF

 CAMERA STATIONS

Reference Number:
 06DS 0521 Iss 3