

COEX™ C3000 HD IP Fixed Camera Station

The COEX™ C3000 HD IP Fixed Camera Station has a unique compact and lightweight design developed specifically for hazardous-area applications. C3000 camera stations are designed for both toughness and durability as demanded for operation in the most adverse of environments.



The COEX C3000 hazardous-area camera stations are manufactured from the highest-grade, corrosion-resistant, electro-polished 316L stainless steel. Designed for toughness and durability to operate in the most extreme environments, they are certified for temperatures from -55°C to +70°C ambient temperature.

This premium-performance camera station combines 1080p HD video with 30x optical zoom to provide outstanding image quality under a wide range of environmental and lighting conditions.

Incorporating high-efficiency encoding technology, the camera station is capable of dual-stream H.264 encoding for simultaneous live view and recording.

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

Options

- Integral wiper
- COEX FEWS3 wash systems
- IR lamp



Specifications

CERTIFICATIONS / RATINGS ⁵		[OPTIONS]
ATEX / IECEx	ATEX II 2GD, Ex db IIB/IIC Gb; Ex tb IIIC Db; T4 / T5 / T6 EN60079-0, EN60079-1, EN60079-28, EN60079-31, IEC60079-0, IEC60079-1, IEC60079-28, IEC60079-31	
ATEX / IECEx Certified Temperature	-55°C to +50°C (T6), +60°C (T5), +70°C (T4)	
CSAus Class / Division	Class I, Div 1, Groups A, B, C, D; Class II, Div I, Groups E, F, G; T4 / T5 / T6	
CSAus Class / Zone	Class I, Zone 1, AEx d IIC Gb; Zone 21, AEx tb IIIC Db; T4 / T5 / T6	
CSAus Standards	FM3600, FM3615, FM3616, UL50, UL50E, UL60950-1, UL60079-0, UL60079-1, ANSI60079-31	
CSAus Certified Temperature	-55 to +50°C (T6), +55/60°C (T5), +70°C (T4)	
CSA Class / Division	Ex d IIC Gb; Ex tb IIIC Db; Class II, Div 1, Groups E, F, G; Class III, Div 1; T4 / T5 / T6	
CSA Standards	C22.2 No. 0-10, C22.2 No. 60079-0, C22.2 No. 60079-1, C22.2 No. 60079-31, C22.2 No. 60950-1, IEC60529, C22.2 No. 94.1-07, C22.2 No. 94.2-07	
CSA Certified Temperature	-55°C to +50°C (T6), +60°C (T5), +70°C (T4)	
EMC	EN61000-6-2, EN 61000-6-4, EN55022, EN55024 Class A limits	
EMC (US & Can.)	FCC CFR47 Part 15 Class A ICES-003 Class A	
CE	IEC60950-1, IEC60825-1	
DNV	A-13470	
C-TICK	On Request	
ENVIRONMENTAL		
Operating Temperature	-45°C to +70°C / -49°F to +158°F	
Storage Temperature	-45°C to +70°C / -49°F to +158°F	
Ingress Protection	IP66 & IP68 (30m Submersion for 4 hrs) 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 200 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 12.5 mm / 0.49" fixing hole	
Dimensions* ¹ (W x D x H)	179 x 310 x 235 mm / 7.05" x 12.21" x 9.25"	
Weight* ¹	8 kg / 17.6 lb	
Cable Gland Entries	1 x M20	
ELECTRICAL		
Input Power Options	24 V AC/DC (±10%) 50/60 Hz 8 VA Quiescent 11 VA Operating	
Power Consumption* ¹	24 VA Operating (with heater) 27 VA Max	
Wash Control* ¹	24 V AC/DC (0.75 A max) switched output	
Auxiliary Inputs* ³	1 x contact closure input (5 V pull up) [up to 4 available on request]	
Relay Outputs* ³	1 x 24 V AC/DC (0.75 A max) switched output [up to 2 available on request]	
CAMERA OPERATION		
Preset Memory	128 user programmable preset positions (zoom, focus), return to home function	
Wash/Wipe* ¹	[Optional wash/wipe with auto-wiper off]	
ONVIF Control Features	Zoom and focus control, preset store/recall, auxiliary controls (wash/wipe/lamps/auto focus/ICR/IR compensation), wash/wipe and lamps control mappable to ONVIF presets for control systems that have no support for auxiliary commands	
Motion Detection	Configurable sensitivity	
Alarm Automation	Advanced rules engine with preset recall, alarm and video profile change actions Zoom, wiper activity status	
IR Lamp Control* ¹	Manual/auto control of a connected IR lamp, lamp operation automatically synchronized with the day/night camera low light detection and IR cut filter	
IR Focus Compensation* ¹	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 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 MJPEG
Bitrate Mode	Constant Bitrate (CBR), Variable Bitrate (VBR)
Encoding Capability	Up to 2 independently configurable encoded video streams
Stream Bitrate*4	300 kb/s to 8 Mb/s
Image Resolution	Full HD 1080p (1920 x 1080), qHD (960 x 540), HD1080/16 (480 x 270)
Image Rate	1 to 25/30 IPS
GOP Structure	1 x I-frame/sec (IPP...PP)

NETWORK	
Interface Options	Ethernet (100Base-T, 10-Base-T), Auto/full/half duplex, Auto/10/100
Protocols	TCP/IP, UDP, ICMP, DHCP, HTTP, HTTPS, NTP, RTSP/RTP/RTCP, IGMP, SNMP, SYNS, SSL, TLS
Control Protocol	SYNS, ONVIF (Profile S compliant)
Video Stream Delivery	SYNS, RTSP/RTP (Unicast: UDP/TCP/HTTP, Multicast UDP)
Network Discovery	SYNS, WS-Discovery (ONVIF)
Device Security	Password protected web interface, HTTPS support, HTTP disable, ONVIF discovery disable
Supported Internet Browsers	Chrome / Firefox / IE version 6 or higher (Requires VLC Active-X for in-browser video rendering)
System Maintenance	Field upgradeable firmware, diagnostic logs, configuration backup / restore

NOTE: *1 Dependent on 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 bitrate per stream will be reduced dependent on the number of encode sessions configured. *5 Exact certification requirements must be specified at the time of order.

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Specifications subject to change. E & OE.

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MANUFACTURER OF

 CAMERA STATIONS

Reference Number:
06\DS 0485 Iss 1