COEX™ C3000 4K IP PTZ Camera Station

The COEX™ C3000 4K IP PTZ 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.



COEX C3000 hazardous-area camera stations operate in the most extreme environments worldwide. Designed for toughness, durability, and certified to perform in ambient temperatures from -55°C to +70°C without compromise, they are ideal for oil and gas, marine, and industrial installations.

This advanced camera station combines 4K video with a 20x optical zoom to deliver high-quality image and detail capture.

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 C3000 4K IP PTZ 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 FEWS3 wash systems
- IR lamp*1
- Continuous rotation































Specifications

CERTIFICATIONS / RATINGS'5		[OPTIONS]
ATEX / IECEx / UKCA	ATEX II 2GD, Ex db IIB/IIC Gb; Ex tb IIIC Db; T4 / T5 / T6 EN60079-0, EN60079-1, EN60079-31, IEC60079-0, IEC60079-1, IEC60079-31	
ATEX / IECEx / UKCA Certified Temperature	-55°C to +40°C (T6), +50/60°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 db IIC Gb; Zone 21, AEx tb IIIC Db; T4 / T5 / T6	
CSAus Standards	FM3600, FM3615, FM3616, UL50, UL50E, UL62368-1 UL60079-0, UL60079-1, UL60079-31	
CSAus Certified Temperature	-55°C to +40°C (T6), +50/55/60°C (T5), +70°C (T4)	
CSA Class / Division	Ex db 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, C22.2 No. 60079-0, C22.2 No. 60079-1 C22.2 No. 60079-31, C22.2 No. 62368-1, IEC60529 C22.2 No. 94.1, C22.2 No. 94.2	
CSA Certified Temperature	-55°C to +40°C (T6), +50/60°C (T5), +70°C (T4)	
EMC (US & Can.)	FCC CFR47 Part 15 Class A ICES-003 Class A	
EMC	EN61000-6-2, EN 61000-6-4 Class A limits	
CE / UKCA	IEC62368-1, IEC60825-1	
DNV	TAA00001M2	
INMETRO	BRA 21.GE0018X	
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 & 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 268 km/h	
MECHANICAL		
Material	Electro-polished 316L stainless steel	
Window	4K grade toughened glass, thermostatically operated demister [Wiper*2]	
Pan Turning Circle	Ø 560 mm / 22.05"	
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)	375 x 310 x 352 mm / 14.76" x 12.21" x 13.86"	
Weight*1	27 kg / 59.5 lbs	
Cable Gland Entries	2 x M20	
ELECTRICAL		
Input Power Options	24 V AC/DC (±10%) 50/60 Hz	
Power Consumption*1	9 VA Quiescent 68 VA Operating 81 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 (5 V pull up) [additional inputs available on request]	
Relay Outputs*3	1 x volt free switched output (24 V 0.75 A max) [up to 2 available on request]	

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		
Preset Memory	128 user programmable preset positions (pan, tilt, zoom	and focus), preset accuracy <0.05°, absolute positioning	
PTZ Features	Proportional pan and tilt control in relation to zoom depth, intelligent focus		
Wash/Wipe*1	[Optional wash/wipe with auto-wiper off]		
ONVIF Control Features	PTZ control (continuous, relative and absolute), 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*1	Manual/auto control of a connected IR lamp		
IR Focus Compensation*1	Manual/auto control of IR focus compensation and automatic compensation of focus preset positions		
DAY/NIGHT CAMERA / LENS			
Image Sensor	1/2.5 Exmor-F	R CMOS sensor	
Signal System	4K 2160p 25/29.97 FPS FHD 1080p 25/29.97/50/59.94 FPS		
Effective Pixels		ga pixels	
Zoom Range	20x zoom		
	(up to 240x with digital zoom)		
Focal Length/Aperture		mm (tele), F2.0 to F3.8	
Angle of View (H)	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	to 3.5° (tele) with image stabilizer on	
Minimum Illumination (50IRE, High Sensitivity Mode)	0.4 lux (1/30 s) 0.06 lux (1/4 s, 1/3 s)		
Minimum Illumination (50IRE)	0.21 lux (1	(1/30 s) /4 s, 1/3 s)	
Electronic Shutter		0,000 s, 28 steps)	
Signal/Noise Ratio	> 50 db (v	weight on)	
Features	Digital zoom on/off, auto/manual focus, auto/manual iris, auto/manual IR cut filter remove (ICR), auto exposur (AE), automatic gain control (AGC), auto white balance (AWB), backlight compensation (BLC), auto slow shutte visibility enhancer (VE), defog, highlight compensation (HLC), Noise Reduction (NR)		
Image Stabilization	E	EIS	
VIDEO ENCODING			
Compression Standards	H.264 (MPEG4 part 10/AV H.265 (MPEG-H pa		
Bitrate Mode	Constant Bitrate (CBR), Variable Bitrate (VBR)		
Encoding Capability	Up to 3 independently configurable encoded video streams		
Stream Bitrate*4	100 kb/s t	to 25 Mb/s	
Image Resolution*4	4K (3840 x 2160), Full HD 1080p (1920 x 1080), 720p (1280)	x 720), D1 (720 x 576/480), 4CIF (704 x 576), CIF (352 x 28)	
Image Rate*4	HD (up to 60 IPS),		
GOP Structure	I-frame only, 5	· · ·	
Region of Interest (ROI)	Configurable per encoded video stream, ability to cro (variable resolution		
AUDIO ENCODING			
Compression Standards	ARM AACLC, ARM AACLC MPEG	G2. ARM AACHE, ARM AACHE V2	
Sample Rate	48 kHz, 44.1 kHz		
Stream Bitrate	12 to 384 kb/s (AACHE and		
NETWORK DEVICE	. 2 (0 00 11.0) 0 (4 10) 12 011		
Interface Options	Ethernet (100Page T. 10 Page T) Auto (full/hai	If dupley Auto/10/100 configurable MTLL cize	
Protocols	Ethernet (100Base-T, 10-Base-T), Auto/full/hai TCP/IP, UDP, ICMP, DHCP, DNS, HTTP, HTTPS, NTP, RTSP/F	RTP/RTCP, TSRTP, RTMP, RTMPS, SRT, IGMP, SNMP, SYN	
Control Protocol	SSL, TLS, 81 SYNS, ONVIF (Pro		
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Video Stream Delivery	RTSP/RTP (Unicast: UDP/TCP, Multic		
Network Discovery Device Security	SYNS, WS-Discovery (ONVIF) 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	unicast stream disable Chrome / Firefox / IE / Edge (No Active-X browser components required)		
	Field upgradeable firm		
System Maintenance	· ·	agement, cold-start, auto shut-down and watchdog contro	

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.

