

COEX™ C3000-1F Ex d Camera Station

The COEX™ C3000-1F camera series has a unique compact and lightweight design specifically developed for hazardous area applications. The camera stations are designed for toughness and durability to operate in the most adverse environments – from offshore oil and natural gas rigs to FPSO / FSO's and LPG / LNG tanker vessels.



The COEX™ C3000 Ex d camera stations are manufactured from high grade, corrosion resistant, electro-polished 316 stainless steel – incorporating state of the art cameras, control and transmission modules.

The advanced mechanical design provides a reliable solution for both security and process monitoring in any environmental condition.

Integrated with the latest camera technology, the C3000 camera stations are compatible with a broad range of control systems.

Features

- ATEX Certification
- CSAus Certification
- IECEx Certification
- CSA Canadian Certification
- EAC-TR CU Certification
- DNV Type Approval
- IP66 & IP68 Rated – Completely Protected Against Dust & Water Ingress, for the Most Demanding Environment
- Type 6 Enclosure
- C-Tick Compliance
- Electro-polished 316 Stainless Steel, for Maximum Corrosion Resistance
- Low Voltage Operation
- Onscreen Menu Display Allowing Easy Configuration and Diagnostics

- Multi-protocol Telemetry for Extensive System Compatibility
- Toughened Glass Window
- Thermostatically Controlled Window Demister
- Removable Camera Chassis for Ease of Servicing

Options

- Thermal Imaging
- Integral Wiper [W]
- COEX™ 'FEWS' Ex Pressurized Wash System
- IP Available with Associated Junction Box
- Integral Fiber Optic Transmission

Specifications

CERTIFICATIONS / RATINGS		[OPTIONS]	
Certifications / Ratings	ATEX / IECEx: ATEX II 2GD, Ex d IIC Gb; Ex tb IIIC Db; T4 / T5 / T6 US Class / Division: Class I, Div 1, Groups A, B, C, D; Class II, Div I, Groups E, F, G; T4 / T5 / T6 US Class / Zone: Class I, Zone 1, AEx d IIC Gb; Zone 21, AEx tb IIIC Db; T4 / T5 / T6 CAN: Ex d IIC Gb; Ex tb IIIC Db; Class II, Div 1, Groups E, F, G, Class III, Div 1; T4 / T5 / T6 EAC-TR CU Certification DNV Type Approval EMC:61000 CE Compliant IP66 & IP68 (30 m Submersion for 4 hrs) to IEC 60529 Type 6 Enclosure C-Tick Compliant		
ENVIRONMENTAL			
Rated Temperature	-67°F (-55°C) to 140°F (+60°C) [158°F / +70°C]		
MECHANICAL			
Material	Electro-polished 316 Stainless Steel		
Window	Toughened Glass, Thermostatically Operated Demister [Wiper]		
Mounting	1 x M10 Hole		
Dimensions (W x D x H)	7.05" x 9.25" x 12.20" mm		
Weight*1	17.5 lbs		
ELECTRICAL			
Power Requirements	24Vac 50 / 60Hz or 24Vdc (±10%)		
Power Consumption	20VA Maximum		
TELEMETRY			
Interface	RS485 serial asynchronous data		
Protocols*2	Synectics™, Pelco® and other industry standard protocols available		
Functions*1	Zoom, Focus, Wipe, Wash, Aux1, [Aux2] and Aux In		
Day / Night Camera Functions*1	Optical Zoom, Digital Zoom, BLC, Autofocus, Focus, Color / Mono, Iris, Auto Iris, Frame Integration, White Balance		
OSD	Password protected on-screen menu system for camera station configuration and diagnostics		
CAMERA / LENS	C3000-1F18 [W]	C3000-1F36 [W]	C3000-1F10 [W]
Video Output	1.0 Vpk-pk CVBS into 75Ω; Color NTSC 60Hz [PAL 50Hz]		
Image Sensor	¼" EXview HAD CCD		⅓" Super HAD CCD II
Resolution	>550TVL		>530TVL
S/N Ratio	>50dB		
Zoom Range	18x zoom (up to 216x with digital zoom)	36x zoom (up to 432x with digital zoom)	10x zoom (up to 120x with digital zoom)
Minimum Illumination	0.7 lux (0.07 lux with ½ sec integration) 0.01 lux mono (with ½ sec integration)	1.4 lux (0.10 lux with ½ sec integration) 0.01 lux mono (with ½ sec integration)	0.25 lux (0.015 lux with ½ sec integration) 0.0004 lux mono (with ½ sec integration)
Focal Length	4.1 to 73.8 mm	3.4 to 122.4 mm	5.1 to 51 mm
Angle of View (H)	48° to 2.8°	57.8° to 1.7°	52° to 5.4°
Aperture	F1.4 to 3.0	F1.6 to 4.5	F1.8 to 2.1

NOTE: *1 Dependant on equipment fitted. *2 Refer to Synectics for availability and compatibility with other control systems.

Synectic Systems

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Specifications subject to change. E & OE.

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MANUFACTURER OF



CAMERA STATIONS

Reference Number:
C3000-1F/0615/USL Iss 8