

COEX™ C3000-1C Ex d Camera Station

The COEX™ C3000-1C 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 of a virtually indestructible gearbox combined with backlash eliminating technology ensures smooth proportional speed control at fast and slow speeds. Preset accuracy and repeatability of <math><0.05^\circ</math> provides a reliable solution for both security and process monitoring.

The COEX™ C3000 camera stations can operate in the most extreme environments and are certified for temperatures as low as

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 Optimum Corrosion Resistance
- Low Voltage Operation
- Pre-Heat Mode
- Continuous Rotation
- AC Stepper Motor Drive for Variable Speed Control with High Preset Accuracy and Repeatability
- Onscreen Menu Display Allowing Easy Configuration and Diagnostics
- Single Stationary Cable Tail
- Multi-protocol Telemetry for Extensive System Compatibility

Options

- Integrated IP
- Integral Wiper [W]
- COEX™ 'FEWS' Ex Pressurized Wash System
- Integral Fiber Optic Transmission with Alternative Base
- Thermal Imaging

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 (30m 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] | |
| Pan Operation | Continuous Rotation; 0° to 42°/sec; Programmable soft-stops; preset positioning | |
| Tilt Operation | 180° Rotation; 0° to 21°/sec; Mechanical limits; programmable soft-stops; preset positioning | |
| Mounting | 4 x M8 tapped holes, equispaced on a 4" (101.6 mm) P.C.D. | |
| Dimensions (W x D x H) | 14.76" x 12.20" x 13.86" [Alternative Base 14.76" x 12.20" x 14.29"] | |
| Pan Turning Circle | Ø 22.05" | |
| Weight*1 | 55 lbs [Alternative Base 59.5 lbs] | |
| ELECTRICAL | | |
| Power Requirements | 24Vac 50 / 60Hz or 24Vdc (±10%) | |
| Power Consumption | 75VA Maximum | |
| TELEMETRY | | |
| Interface | RS485 serial asynchronous data | |
| Protocols*2 | Synectics™, Pelco®, and other industry standard protocols available | |
| Functions*1 | Pan, Tilt, 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 | | |
| | C3000-1C36 [W] | C3000-1C10 [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 | 36x zoom (up to 432x with digital zoom) | 10x zoom (up to 120x with digital zoom) |
| Minimum Illumination | 1.4 lux | 0.25 lux |
| | 0.1 lux (with ⅓ sec integration) | 0.015 lux (with ⅓ sec integration) |
| | 0.01 lux mono (with ⅓ sec integration) | 0.0004 lux mono (with ⅓ sec integration) |
| Focal Length | 3.4 to 122.4 mm | 5.1 to 51 mm |
| Angle of View (H) | 57.8° to 1.7° | 52° to 5.4° |
| Aperture | 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:
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