

COEX™ C2000-1VT Marine Camera Station

The COEX™ C2000-1VT camera series has a unique compact and lightweight design specifically developed for safe area and marine environments. Combined with the latest thermal imaging technology the C2000-1VT ensures constant visual feedback in zero visible light and adverse weather conditions.



COEX™ C2000 camera stations are manufactured from high grade, corrosion resistant, electro-polished 316L 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.

Integrating the latest thermal imaging technology allows the C2000 camera station to comprehensively cover a

wide range of site applications where standard cameras would be ineffective:

- Intruder / Perimeter Detection
- Process Monitoring / Fault Detection
- Material and Temperature Differentiation

Features

- DNV Type Approval
- CSAus Certification
- CSA Canadian Certification
- EAC-TR CU
- IP66 & IP67 Rated – Completely Protected Against Dust & Water Ingress, for the Most Demanding Environments
- Type 6 Enclosure
- Electro-polished 316L Stainless Steel, for Maximum Corrosion Resistance

- Low Voltage Operation
- Pre-Heat Mode
- 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

- IP, Fibre Optic Available with Associated Junction Box
- Continuous Rotation

Specifications

| CERTIFICATIONS / RATINGS | | [OPTIONS] | | |
|----------------------------|--|------------------|--------------------|------------------|
| Certifications / Ratings | DNV Type Approval EAC-TR CU Certified EMC:61000 CE Compliant IP66 & IP67 to IEC 60529 Machinery Directive: 2006/42/EC LVD Directive: 2006/95/EC | | | |
| ENVIRONMENTAL | | | | |
| Operating Temperature | -45°C to +70°C / -49°F to 158°F | | | |
| MECHANICAL | | | | |
| Material | Electro-polished 316L Stainless Steel | | | |
| Window | Toughened Glass, Thermostatically Operated Demister | | | |
| Pan Operation | 360° Rotation; 0° to 42°/sec; Mechanical limits; programmable soft-stops; preset positioning [Continuous Rotation] | | | |
| 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) | 363 x 310 x 338 mm / 14.29" x 12.21" x 13.31" | | | |
| Pan Turning Circle | Ø 426 mm / 16.77" | | | |
| Weight*1 | 16 kg / 35 lb | | | |
| 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, Aux1, [Aux2] and Aux in | | | |
| Thermal Camera Functions*1 | 3 step digital zoom (2x, 4x, 8x), Multiple Colour Palettes (including Inverted), Cross Hair Temperature Display, Auto / Manual Shuttering | | | |
| OSD | Password protected on-screen menu system for camera station configuration and diagnostics | | | |
| CAMERA / LENS | C2000-1VT345 | C2000-1VT315 | C2000-1VT650 | C2000-1VT625 |
| Image Sensor | Uncooled VOx Microbolometer | | | |
| Spectral Response | 8 – 14 µm | | | |
| Refresh Rate | <9Hz [25Hz] | | | |
| Thermal Sensitivity | >50mK | | | |
| Resolution | 324 x 256 | | 640 x 512 | |
| Fixed Focal Length | 35 mm | 13 mm | 50 mm | 25 mm |
| Angle of View (H) | 13° x 10° | 34° x 26° | 12.4° x 9.9° | 25° x 20° |
| Human Detection*3/4 | ~1000 m / ~1093 yd | ~200 m / ~218 yd | ~1100 m / ~1202 yd | ~560 m / ~612 yd |

NOTE: *1 Dependant on equipment fitted. *2 Refer to Synectics for availability and compatibility with other control systems. *3 Based on Johnson Criteria. *4 Actual range may vary depending on camera set-up, user experience, environmental conditions and type of monitor or display used.

Synectics

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Specifications subject to change. E & OE.

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MANUFACTURER OF

 CAMERA STATIONS

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