

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
- 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

- Integral Wiper [W]
- COEX™ 'MEWS' Wash System
- IP, Fiber Optic Available with Associated Junction Box
- Continuous Rotation

Specifications

CERTIFICATIONS / RATINGS		[OPTIONS]		
Certifications / Ratings	DNV Type Approval CSAus / CSA Canadian Class 3862 13 and Class 3862 93 EAC-TR CU Certified EMC:61000 CE Compliant IP66 & IP67 to IEC 60529 Machinery Directive: 2006/42/EC LVD Directive: 2006/95/EC Type 6 Enclosure			
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 [Wiper*5]			
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	Amorphous Silicon Microbolometer			
Spectral Response	8 – 14 µm			
Refresh Rate	<9Hz [25Hz]			
Thermal Sensitivity	100mK		70mK [50mK]	
Resolution	324 x 256		640 x 512	
Fixed Focal Length	45 mm	15 mm	50 mm	25 mm
Angle of View (H)	12.2° x 9.3°	35° x 25°	12.4° x 9.3°	25° x 18.7°
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. *5 Wipers are consumable items that need regular replacement. Please refer to the manual for recommendations and maintenance.

Synectics

sales@synecticsglobal.com

synecticsglobal.com

Specifications subject to change. E & OE.

Copyright © Synectic Systems Group Limited, Synectic Systems, Inc., Synectic Systems (Asia) Pte. Limited 2016. All Rights Reserved.

MANUFACTURER OF



CAMERA STATIONS

Reference Number:
C2000-1VT/0416/USL Iss 4