

# COEX™ C2000-1V Marine Camera Station

The COEX™ C2000-1V camera series has a unique compact and lightweight design specifically developed for marine applications. The camera stations are designed for toughness and durability to operate in the most adverse environments – from extremely low temperatures where ice is prevalent to severe weather conditions on all types of vessels to the high temperatures experienced in deserts.



COEX™ C2000 marine camera stations are manufactured from the highest grade, corrosion resistant, electro-polished 316L stainless steel – incorporating state of the art camera and control options.

The advanced mechanical design of a virtually indestructible gearbox combined with backlash eliminating technology ensures smooth and accurate camera control. Preset accuracy and repeatability of <math><0.05^\circ</math> provides a reliable solution for both security and process monitoring.

COEX™ C2000 camera stations can operate in the most extreme environments from as low as

## Features

- DNV Type Approval
- CSAus Certification
- CSA Canadian Certification
- EAC-TR CU 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, Fibre Optic Available with Associated Junction Box
- Continuous Rotation
- Thermal Imaging

# Specifications

CERTIFICATIONS / RATINGS		[OPTIONS]
Certifications / Ratings	DNV Type Approval CSAus / CSA Canadian Class 3862 13 and Class 3862 93 EAC-TR CU EMC:61000 CE Compliant IP66 & IP67 to IEC 60529 Type 6 Enclosure	
ENVIRONMENTAL		
Operating Temperature <sup>*1</sup>	-45°C to +70°C / -49°F to 158°F	
MECHANICAL		
Material	Electro-polished 316L Stainless Steel	
Window	Toughened Glass, Thermostatically Operated Demister [Wiper <sup>*3</sup> ]	
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 x 1.25 tapped holes, equi-spaced 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	16 kg / 35 lb	
ELECTRICAL		
Power Requirements	24Vac 50 / 60Hz or 24Vdc (±10%)	
Power Consumption <sup>*1</sup>	100VA Maximum	
TELEMETRY		
Interface	RS485 serial asynchronous data	
Protocols <sup>*2</sup>	Synectics™, Pelco®, and other industry standard protocols available	
Functions <sup>*1</sup>	Pan, Tilt, Zoom, Wipe, Wash, Aux1 [Aux2] and Aux In	
Day / Night Camera Functions <sup>*1</sup>	Optical Zoom, Digital Zoom, BLC, Autofocus, Focus, Colour / Mono, Iris, Auto Iris, Frame Integration, White Balance	
OSD	Password protected on-screen menu system for camera station configuration and diagnostics	
CAMERA / LENS	C2000-1V36 [W]	C2000-1V10 [W]
Video Output	1.0 Vpk-pk CVBS into 75Ω Colour PAL 50Hz [NTSC 60Hz]	
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 0.1 lux (with ⅓ sec integration) 0.01 lux mono (with ⅓ sec integration)	0.25 lux 0.015 lux (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. \*3 Wipers are consumable items that need regular replacement. Please refer to the manual for recommendations and maintenance.

## Synectics

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Specifications subject to change. E & OE.

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MANUFACTURER OF



CAMERA STATIONS

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