

# COEX™ C2000-1S Marine Camera Station

The COEX™ C2000-1S 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.



The 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.

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

## 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 Dual 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

# Specifications

CERTIFICATIONS / RATINGS		[OPTIONS]	
Certifications / Ratings	DNV Type Approval CSAus / CSA Canadian Class 3862 13 and Class 3862 93 EMC:61000 CE Compliant IP66 & IP67 to IEC 60529 Type 6 Enclosure		
ENVIRONMENTAL			
Operating Temperature*1	-45°C to +60°C [+70°C]		
MECHANICAL			
Material	Electro-polished 316L Stainless Steel		
Window	Toughened Glass, Thermostatically Operated Demister [Wiper]		
Pan Operation	360° Rotation; 0° to 9°/sec; Mechanical limits; programmable soft-stops; preset positioning (18°/sec)		
Tilt Operation	180° Rotation; 0° to 4.5°/sec; Mechanical limits; programmable soft-stops; preset positioning (9°/sec)		
Mounting	4 x M8 x 1.25 tapped holes, equispaced on a 4" (101.6 mm) P.C.D.		
Dimensions (W x D x H)	363 x 310 x 338 mm		
Pan Turning Circle	Ø 426 mm		
Weight*1	16 kg		
ELECTRICAL			
Power Requirements	24Vac 50 / 60Hz or 24Vdc (±10%)		
Power Consumption*1	100VA Maximum		
TELEMETRY			
Interface	RS485 serial asynchronous data		
Protocols*2	Synectics™, Pelco®, and other industry standard protocols available		
Functions*1	Pan, Tilt, Zoom, Wipe, Wash, Aux1 [Aux2] and Aux In		
Day / Night Camera Functions*1	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		C2000-1S18 [W]	C2000-1S10 [W]
Video Output	1.0 Vpk-pk CVBS into 75Ω Colour PAL 50Hz [NTSC 60Hz]		
Image Sensor	¼" EXview HAD CCD		½" Super HAD CCD II
Resolution	>550TVL		530TVL
S/N Ratio	>50dB		
Zoom Range	18x zoom (up to 216x with digital zoom)		10x zoom (up to 120x with digital zoom)
Minimum Illumination	0.7 lux		0.25 lux
	0.07 lux (with ½ sec integration)		0.015 lux (with ½ sec integration)
	0.01 lux mono (with ½ sec integration)		0.0004 lux mono (with ½ sec integration)
Focal Length	4.1 to 73.8 mm		5.1 to 51 mm
Angle of View (H)	48° to 2.8°		52° to 5.4°
Aperture	F1.4 to 3.0		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

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