

COEX™ C2000 TriMode Series '6' Camera Station

The COEX™ C2000 TriMode camera station 6 series has been specifically developed for marine applications and demanding environments. Combining the latest thermal imaging technology with a day / night (colour / mono) camera module the C2000 TriMode camera stations ensure unprecedented visual feedback in all light conditions.



Utilised around the world to assist with:

- Pipeline monitoring
- Navigation during night time and foggy conditions
- Ice Detection
- Piracy Detection
- Man-overboard Safety
- Environmental Protection
- Intruder Detection
- Safety and Security Protection

Even during daylight the C2000 TriMode can provide increased visibility over conventional camera stations with human detection at over 1100 m^{3/4}

COEX Series 6 camera stations are fitted with a 640 x 512 thermal imaging camera and a high resolution analogue day / night camera with removable IR cut filter.

Features

- CSAus Certification
- CSA Canadian Certification
- EAC-TR CU Certification
- IP66 & IP67 rated – completely protected against dust & water ingress, for the most extreme environments
- Electro-polished 316L stainless steel, for maximum corrosion resistance
- TriMode Operation – Day (colour), Night (mono) and Thermal Imaging
- Low Voltage Operation
- Preset accuracy and repeatability of <0.05°
- Pre-Heat Mode for safe start up in freezing conditions
- Smart Move Technology assists target acquisition and tracking

Options

- Continuous Rotation [C]
- Absolute Positioning
- Integral Wiper [W]
- COEX™ "MEWS" Pressurised Wash System
- Synectics IP and Fibre Optic Transmission (via associated junction box)
- COEX™ Wall Mount Bracket
- COEX™ Range of Tilt Down Towers and accessories

Specifications

CERTIFICATIONS / RATINGS		[OPTIONS]	
Certifications / Ratings	CSAus / CSA Canadian Class 3862 13 and Class 3862 93 EAC-TR CU IP66 & IP67 to IEC 60529 CE Compliant to EMC and Low Voltage Directives LVD Directive: 2006/95/EC		
ENVIRONMENTAL			
Operating Temperature	-45°C to +70°C		
MECHANICAL			
Material	Electro-polished 316L Stainless Steel		
Windows	Germanium and Toughened Glass, Thermostatically Operated Demister [Wiper for Day / Night View only]		
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)	412 x 310 x 375 mm		
Pan Turning Circle	Ø 626 mm		
Weight	19 kg		
ELECTRICAL			
Power Requirements	24Vac 50 / 60Hz or 24Vdc (±10%)		
Power Consumption	92VA Maximum		
TELEMETRY			
Interface	RS485 serial asynchronous data		
Protocols*2	Synectics™, Pelco®, and other industry standard protocols available		
Functions*1	Pan, Tilt, Wash, Wipe, Aux1, [Aux2] and Aux in		
Day/Night Camera	On / Off Selection of: Digital Zoom, BLC, Autofocus;		
Functions*1	Auto / Manual Selection of: Focus, Colour / Mono Operation, Frame Integration, White Balance		
Thermal Camera	3 step digital zoom (2x, 4x, 8x), Multiple Colour Palettes (including Inverted), Cross Hair Temperature Display,		
Functions*1	Auto / Manual Shuttering		
OSD	Password protected on-screen menu system for camera station configuration and diagnostics		
CAMERA / LENS		C2000-2V36-T6>> [2C36] [W]*5	C2000-2V10-T6>> [2C10] [W]*5
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	57.8° to 1.7°	52° to 5.4°	
Aperture	F1.6 to 4.5	F1.8 to 2.1	
THERMAL IMAGER		C2000-2V<<-T650 [2C<<] [W]*5	C2000-2V<<-T625 [2C<<] [W]*5
Image Sensor	Uncooled VOx Microbolometer		
Spectral Response	8 – 14 μm		
Thermal Sensitivity	>50mK		
Refresh Rate	<9Hz [25Hz]		
Resolution	640 x 512		
Fixed Focal Length	50 mm	25 mm	
Angle of View	12.4° x 9.9°	25° x 20°	
Human Detection*3/4	~1100 m	~560 m	

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 >> replace with thermal camera module and << replace with day / night camera module.

Synectics

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Specifications subject to change. E & OE.

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MANUFACTURER OF

 CAMERA STATIONS

Reference Numbers: 03GF620_2
 C2000T2S6/0418/A4 Iss 5