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 480 thermal imaging camera and a high resolution analogue day / night camera with removable IR cut filter.

Features

- 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°
- Advanced Mechanical Design to minimise size and weight
- Pre-Heat Mode for safe start up in freezing conditions
- Smart Move Technology assists target acquisition and tracking
- Germanium and Toughened Glass Windows

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]
	IP66 & IP67 to IEC 60529	
Certifications / Ratings	CE Compliant to EMC and Low Voltage Directives	
	LVD Directive: 2006/95/EC	

ENVIRONMENTAL	
Operating Temperature	-45°C to +60°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;		
ran Operation	Programmable Soft-stops; Preset Positioning [Continuous Rotation]		
Tilt Operation	180° rotation @ 0° to 21°/sec;		
Till Operation	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	Continuous Electronic Zoom, Multiple Colour Palettes (including Inverted), Multiple Contrast Display,
Functions*1	Contrast and Level Control, Hot and Cold Spot, 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	1/4" EXview HAD CCD	1/3" Super HAD CCD II
Resolution	>550TVL	>530TVL
S/N Ratio	>50dB	
Zoom Range	36x zoom	10x zoom
	(up to 432x with digital zoom)	(up to 120x with digital zoom)
Minimum Illumination	1.4 lux	0.25 lux
	0.1 lux (with 1/2 sec integration)	0.015 lux (with 1/3 sec integration)
	0.01 lux mono (with 1/3 sec integration)	0.0004 lux mono (with ½ 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	Amorphous Silicon Microbolometer		
Spectral Response	8 – 14 µm		
Thermal Sensitivity	70mK [50mK]		
Refresh Rate	<9Hz [25Hz]		
Resolution	640 × 480		
Fixed Focal Length	50 mm	25 mm	
Angle of View	12.4° × 9.3°	24.6° x 18.6°	
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.

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