COEX[™] C2000 TriMode Series '3' Camera Station

The COEX™ C2000 TriMode camera station 3 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:

- 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 3 camera stations are fitted with a 324 x 256 analogue 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
- COEXTM Range of Tilt Down Towers and accessories



Specifications

CERTIFICATIONS / RATINGS [OPTIONS]

CSAus / CSA Canadian Class 3862 13 and Class 3862 93

EAC-TR CU Certified Certifications / Ratings IP66 & IP67 to IEC 60529

> CE Compliant to EMC and Low Voltage Directives LVD Directive: 2006/95/EC

> > Ø 626 mm 19 kg

ENVIRONMENTAL

Operating Temperature -45°C to +70°C

MECHANICAL Material Electro-polished 316L Stainless Steel Germanium and Toughened Glass, Thermostatically Operated Demister [Wiper for Day / Night View only] Windows 360° rotation @ 0° to 42° /sec; Mechanical limits; Programmable soft-stops; Pan Operation Preset Positioning [Continuous Rotation] 180° rotation @ 0° to 21° / sec; Tilt 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

Weight*1 **ELECTRICAL**

Pan Turning Circle

Power Requirements 24Vac 50 / 60Hz or 24Vdc (±10%) **Power Consumption** 92VA Maximum

TELEMETRY Interface RS485 serial asynchronous data Synectics™, Pelco®, and other industry standard protocols available Protocols Pan, Tilt, Wash*2, Wipe*2 Aux1, [Aux2] and Aux in Functions*1 On / Off Selection of: Digital Zoom, BLC, Autofocus Day / Night Camera Auto / Manual Selection of: Focus, Colour / Mono Operation, Frame Integration, White Balance Functions*2 Thermal Camera 3 step digital zoom (2x, 4x, 8x), Multiple Colour Palettes (including Inverted), Cross Hair Temperature Display,

Functions*1 Auto / Manual Shuttering Password protected on-screen menu system for camera station configuration and diagnostics OSD

CAMERA / LENS C2000-2V10-T3>> [2C10] [W]*5 C2000-2V36-T3>> [2C36] [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 1/3 sec integration) 0.015 lux (with 1/3 sec integration) 0.0004 lux mono (with 1/3 sec integration) 0.01 lux mono (with 1/3 sec integration) Focal Length 3.4 to 122.4 mm 5.1 to 51 mm 57.8° to 1.7° Angle of View 52° to 5.4° F1.6 to 4.5 F1.8 to 2.1 Aperture

THERMAL IMAGER	C2000-2V<<-T345 [2C<<] [W]*5	C2000-2V<<-T315 [2C<<] [W]*5
Image Sensor	Uncooled VOx Microbolometer	
Spectral Response	8 – 14 μm	
Thermal Sensitivity	>50mK	
Refresh Rate	<9Hz [25Hz]	
Resolution	324 × 256	
Fixed Focal Length	35 mm	13 mm
Angle of View	13° × 10°	34° x 26°
Human Detection *3/4	~1000 m	>200 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.

Synecticss

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