

COEX™ C3000 TriMode Series '6' Ex d Camera Station

The COEX™ C3000 TriMode camera station 6 series has a unique compact and lightweight design specifically developed for hazardous area applications. Combined with the latest thermal imaging technology with a day / night (color / mono) camera module the C3000 TriMode camera stations ensure unprecedented visual feedback in all light conditions.



Utilized 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 C3000 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

- ATEX II 2 GD Certification
- IECEx Certification
- Ex d IIC, T4, T5 or T6
- DNV Type Approval
- IP66 & 68 Rated – completely protected against dust & water ingress, for the most extreme environments
- Electro-polished 316 stainless steel, for optimum corrosion resistance
- TriMode Operation – Day (color), Night (mono) and Thermal Imaging
- Low Voltage Operation
- Preset accuracy and repeatability of <0.05°
- Advanced Mechanical Design to minimize 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™ "FEWS" Ex Pressurized Wash System
- Integral Fiber Optic Transmission (via alternative base)
- Fiber Optic Transmission (via associated junction box)
- IP within the Camera Housing
- COEX™ Wall Mount Bracket
- COEX™ Range of Tilt Down Towers and accessories

Specifications

CERTIFICATIONS / RATINGS		[OPTIONS]	
Certifications / Ratings	Ex d IICT4 / T5 / T6 Gb; Ex tb IICT4 / T5 / T6 Db; ATEX II 2GD IECEX DNV Type Approval	CE Compliant to EMC Directive IP66 & IP68 to IEC 60529 (30m Submersion for 4 hrs) -55°C to +60°C	
ENVIRONMENTAL			
Operating Temperature	-45°C to +60°C		
MECHANICAL			
Material	Electro-polished 316 Stainless Steel		
Windows	Germanium and Toughened Glass, Thermostatically Operated Demister [Wiper for Day / Night View only]		
Pan Operation	362° 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 tapped holes, equispaced on a 4" (101.6 mm) P.C.D.		
Dimensions (W x D x H)	429 x 310 x 368 mm		
Pan Turning Circle	Ø 660 mm		
Weight	29 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, Zoom, Aux1, [Aux2] and Aux in		
Day/Night Camera	On / Off Selection of: Digital Zoom, BLC, Autofocus;		
Functions*1	Auto / Manual Selection of: Focus, Color / Mono Operation, Frame Integration, White Balance		
Thermal Camera	Continuous Electronic Zoom, Multiple Color 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		C3000-2V36-T6>>[2C36] [W]*5	C3000-2V10-T6>>[2C10] [W]*5
Video Output	1.0 Vpk-pk CVBS into 75Ω; Color 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 (up to 432x with digital zoom)	10x zoom (up to 120x with digital zoom)	
Minimum Illumination	1.4 lux 0.1 lux (with 1/3 sec integration) 0.01 lux mono (with 1/3 sec integration)	0.25 lux 0.015 lux (with 1/3 sec integration) 0.0004 lux mono (with 1/3 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		C3000-2V<<-T650 [2C<<] [W]*5	C3000-2V<<-T625 [2C<<] [W]*5
Image Sensor	Amorphous Silicon Microbolometer		
Spectral Response	8 – 14 μm		
Thermal Sensitivity	70mK [50mK]		
Refresh Rate	<9Hz [25Hz]		
Resolution	640 x 480		
Fixed Focal Length	50 mm		25 mm
Angle of View	12.4° x 9.3°		25° x 18.7°
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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Specifications subject to change. E & OE.

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MANUFACTURER OF



CAMERA STATIONS

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