

COEX™ C3000 TriMode Series '3' Ex d Camera Station

The COEX™ C3000 TriMode camera station 3 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:

- 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 3 camera stations are fitted with a 384 x 288 analogue 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 IIC T4 / T5 / T6 Gb; Ex tb IIC T4 / 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*1 | 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-T3>>[2C36] [W]*5 | C3000-2V10-T3>>[2C10] [W]*5 |
| Video Output | 1.0 Vpk-pk CVBS into 75Ω; Color 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) | 0.25 lux 0.015 lux (with ⅓ sec integration) | |
| Focal Length | 3.4 to 122.4 mm | 0.0004 lux mono (with ⅓ sec integration) 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<<-T345 [2C<<] [W]*5 | C3000-2V<<-T315 [2C<<] [W]*5 |
| Image Sensor | Amorphous Silicon Microbolometer | | |
| Spectral Response | 8 – 14 μm | | |
| Thermal Sensitivity | 50mK | | |
| Refresh Rate | <9Hz [25Hz] | | |
| Resolution | 384 x 288 | | |
| Fixed Focal Length | 45 mm | 15 mm | |
| Angle of View | 12° x 9.3° | 35° 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.

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Specifications subject to change. E & OE.

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MANUFACTURER OF



CAMERA STATIONS

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