

COEX™ C3000-1FT Ex d Camera Station

The COEX™ C3000-1FT camera series has a unique compact and lightweight design specifically developed for hazardous area applications. With a 316 stainless steel enclosure the C3000-1FT is designed for toughness and durability to operate in the most adverse environments whilst allowing constant visual feedback in zero light conditions.



COEX™ C3000 Ex d camera stations are manufactured from high grade, corrosion resistant, electro-polished 316 stainless steel – incorporating state of the art cameras, control and transmission modules.

The advanced mechanical design provides a reliable solution for both security and process monitoring in any environmental condition.

Integrating the latest thermal imaging technology allows the C3000 Fixed camera station to comprehensively cover a wide range of site applications where standard cameras would fail:

- Intruder / Perimeter Detection
- Process Monitoring / Fault Detection
- Material and Temperature Differentiation

Features

- ATEX Certification
- CSAus Certification
- IECEx Certification
- CSA Canadian Certification
- DNV Type Approval
- EAC-TR CU Certification
- IP66 & IP68 Rated – Completely Protected Against Dust & Water Ingress, for the Most Demanding Environment
- Type 6 Enclosure
- C-Tick Compliance
- Electro-polished 316 Stainless Steel, for Optimum Corrosion Resistance

- Low Voltage Operation
- Onscreen Menu Display Allowing Easy Configuration and Diagnostics
- Multi-protocol Telemetry for Extensive System Compatibility
- Germanium Window
- Thermostatically Controlled Window Demister
- Removable Camera Chassis for Ease of Servicing

Options

- IP Available with Associated Junction Box
- Integral Fiber Optic Transmission

Specifications

CERTIFICATIONS / RATINGS		[OPTIONS]
Certifications / Ratings	ATEX / IECEx: ATEX II 2GD, Ex d IIC Gb; Ex tb IIIC Db; T4 / T5 / T6	
	US Class / Division: Class I, Div 1, Groups A, B, C, D; Class II, Div I, Groups E, F, G; T4 / T5 / T6	
	US Class / Zone: Class I, Zone 1, AEx d IIC Gb; Zone 21, AEx tb IIIC Db; T4 / T5 / T6	
	CAN: Ex d IIC Gb; Ex tb IIIC Db; Class II, Div 1, Groups E, F, G, Class III, Div 1; T4 / T5 / T6	
	EAC-TR CU	
	DNV Type Approval	
	EMC:61000	
CE Compliant		
IP66 & IP68 (30m Submersion for 4 hrs) to IEC 60529		
		Type 6 Enclosure
		C-Tick Compliant

ENVIRONMENTAL	
Rated Temperature	-55°C (-67°F) to +60°C (140°F) [+70°C / 158°F]

MECHANICAL	
Material	Electro-polished 316 Stainless Steel
Window	Germanium Glass, Thermostatically Operated Demister
Mounting	1 x M10 Hole
Dimensions (W x D x H)	179 x 235 x 310 mm / 7.05" x 9.25" x 12.20"
Weight*1	8 kg / 175 lb

ELECTRICAL	
Power Requirements	24Vac 50 / 60Hz or 24Vdc (±10%)
Power Consumption	20VA Maximum

TELEMETRY	
Interface	RS485 serial asynchronous data
Protocols*2	Synectics™, Pelco® and other industry standard protocols available
Functions*1	Zoom, Aux1, [Aux2], Aux In
Thermal Camera Functions*1	3 step digital zoom (2x, 4x, 8x), Multiple Colour Palettes (including Inverted), Cross Hair Temperature Display, Auto / Manual Shuttering
OSD	Password protected on-screen menu system for camera station configuration and diagnostics

CAMERA / LENS	C3000-1FT345	C3000-1FT315	C3000-1FT650	C3000-1FT625
Image Sensor	Uncooled VOx Microbolometer			
Spectral Response	8 – 14 µm			
Refresh Rate	<9Hz [25Hz]			
Thermal Sensitivity	>50mK			>50mK
Resolution	384 x 288			640 x 480
Fixed Focal Length	35 mm	13 mm	50 mm	25 mm
Angle of View (H)	13° x 10°	34° x 26°	12.4° x 9.9°	25° x 20°
Human Detection*3/4	~1000 m / ~1093 yd	~200 m / ~218 yd	~1100 m / ~1202 yd	~560 m / ~612 yd

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.

Synectics

sales@synecticsglobal.com

synecticsglobal.com

Specifications subject to change. E & OE.

Copyright © Synectic Systems Group Limited, Synectic Systems, Inc., Synectic Systems (Asia) Pte. Limited 2016. All Rights Reserved.

MANUFACTURER OF



CAMERA STATIONS

Reference Number:
C3000-1FT/0416/USL Iss 8