C3000-1V HD IP with Integrated Power Base Camera Station

The COEX™ C3000 HD IP with integrated power base camera station, for fiber optic housing and integral power conversion, enables mains connectivity negating the need for a separate junction box.

The C3000 HD IP with integrated power base incorporates a 1080P HD video camera module with 30x optical zoom for outstanding image quality.

Dual streaming capability with optional multicasting provides complete flexibility for both live view and recording where bandwidth size may be an issue.

This camera station is a versatile option for pre-existing systems and ensures a straightforward installation process through ONVIF Profile S compliance.

The C3000 with integrated power base delivers an effortless upgrade transition path for COEX legacy FECH camera stations as it has been designed to be backwards compatible. It is equally at home in a new installation where direct mains connectivity is the preferred option.

COEX C3000 camera stations are industry leaders for certified temperature ratings, from -55°C (-67°F) to +70°C (158°F).

Features

- CSAus certification
- IECEx certification
- ATEX certification
- Electro-polished 316 stainless steel, for optimum corrosion resistance
- Native IP H.264 encoding conforming to ONVIF Profile S standards
- AC stepper motor drive for variable speed control with high preset accuracy and repeatability
- Pre-heat mode
- In-built web interface allows easy configuration and diagnostics

Options

- Integral wiper [W]
- COEX™ 'FEWS' wash system
- Fiber optics (multi or single mode)
- Various voltage options 24Vac/dc and 100 – 240Vac

SYNECTICS

Specifications

CERTIFICATIONS / RATINGS	[OPTIONS]
ATEX / IECEx	ATEX II 2GD, Ex db IIB/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
EMC	CFR 47, 15.109 and 15.107, EN55022, EN55024, EN61000-6-4, EN 61000-6-2
CE	CE Compliant
Ingress Protection	IP66 & IP68 (30m Submersion for 4 hrs) to IEC 60529, Type 6 Enclosure
C-Tick	On Request

ENVIRONMENTAL	
Rated Temperature	-55°C to +60°C (T5) [+70°C (T4)] -67°F to 140°F (T5) [158°F (T4)]

MECHANICAL	
Material	Electro-polished 316 stainless steel
Window	Toughened glass, thermostatically operated demister [Wiper]
Pan Operation	360° rotation at 0° to 42°/sec (preset positioning), mechanical limits, programmable soft-stops
Tilt Operation	180° Rotation at 0° to 21°/sec (preset positioning), mechanical limits, programmable soft-stops
Mounting	4 x M8 tapped holes, equispaced on a 4" (101.6 mm) P.C.D.
Dimensions (W x D x H)	375 x 310 x 443 mm / 14.76" x 12.20" x 17.44" (Base Type 3)
Pan Turning Circle	Ø 560 mm / 22.04"
Tilt Turning Circle	Ø 360 mm / 14.14"
Mounting Orientation	Upright or inverted
Weight*[1]	32 kg / 70.5 lb

ELECTRICAL	
Power Requirements	100 to 240Vac 50 / 60Hz (Base Type 3); 24Vac 50 / 60Hz or 24Vdc (±10%) (Base Type 3 Option 4)
Power Consumption	100VA maximum

CAMERA OPERATION	
Camera Station Functions	Wipe, wash, Aux1, [Aux2] and Aux In
Preset Functions	Pan, tilt, zoom and focus accuracy <0.05°, smart zoom control, absolute positioning, return to home function
Wash*[1]	24Vdc (0.75A max) switched output
Day/Night Camera Functions	White balance, WDR, backlight compensation, digital zoom, color / mono (IRC filter)

VIDEO COMPRESSION	
Compression	H.264 Mainline and Baseline Profiles (MPEG4 part 10/AVC)
Standard	ONVIF Profile S

STREAMING OPTIONS	
Output Streams	Dual stream with multicast option
Dual Streaming Mode	Stream 1: Full HD 1080P (25/30fps), 6Mbps Stream 2: Full HD 1080P (12fps), 2Mbps
Stream Resolution	Full HD 1080P, qHD, WQVGA
Security Access	HTTPS encryption, digest authentication, user access log
Security Interface	Web browser view and setup
Data Rate	Maximum 8Mb/s
GOP Structure	Default 25/30

NETWORK	
Interface	10/100 Mbps ethernet
Protocol	RTP/RTSP, TCP/IP, UDP.IGMP, SNMP, HTTP, NTP
Password Levels	Administrator / User
Supported Internet Browsers	Chrome / Firefox / IE version 6 or higher

CAMERA / LENS

Image Sensor	1/2.8" Progressive Scan CMOS
Signal System	1080p/29.97, 1080p/25
Effective Pixels	Approximately 2.38 megapixels
Electronic Shutter	1/1 to 1/10,000 sec, 22 steps
Zoom Range	30x zoom (up to 360x with digital zoom)
Minimum Illumination (50%, high sensitivity mode ON)	0.35 lux (shutter speed 1/30 sec) 0.19 lux (shutter speed ¼ sec, shutter speed ⅓ sec) ICR-ON mode: 0.013 lux (shutter speed 1/30 sec) 0.002 lux (shutter speed ¼ sec, shutter speed ⅓ sec, 30%)
Minimum Illumination (50%, high sensitivity mode OFF)	1.4 lux (shutter speed 1/30 sec) 0.19 lux (shutter speed ¼ sec, shutter speed ⅓ sec) ICR-ON mode: 0.05 lux (shutter speed 1/30 sec)
Focal Length	4.3 to 129 mm
Angle of View (H)	63.7° to 2.3°
Aperture	F1.6 to 4.7

FIBER OPTICS

Fibers Required[1]	Single or dual fiber
Optical Interface	100Base-Fx
SFP Options	SYNSFP100LFx – 2 fiber, SFP Plug-in Transceiver @1310nm SYNSFP100FxLP – 2 fiber, SFP Plug-in Transceiver @1310nm SYNSFP100WLFxA –1 fibre, SFP Plug-in Transceiver Tx @1310nm, Rx @ 1550nm SYNSFP100WLFxB –1 fiber, SFP Plug-in Transceiver Tx @1550nm, Rx @ 1310nm
Standard Optical Link Budget	> 16dB @ 1310nm (SYNSFP100Fx/10km) > 26dB @ 1310nm (SYNSFP100Fx/30km) > 19dB @ 1310nm (SYNSFP100WFxA/20km, SYNSFP100WFxB/20km) > 11dB @ 1310nm (SYNSFP100FxLP)
Transmitter Optical Power	-8 to -15dBm (SYNSFP100Fx/10km / OSDSFP100Fx/20km) +0 to -5dBm (SYNSFP100Fx/30km, @1310nm) -10 to -20dBm (SYNSFP100FxLP, @1310nm) -8 to -14dBm (SYNSFP100WFxA/20km, @1310nm) -8 to -14dBm (SYNSFP100WFxB/20km, @1550nm)
Receiver Sensitivity	< -31dBm (SYNSFP100Fx/10km/ SYNSFP100Fx/20km, @1310nm) < -31dBm (SYNSFP100Fx/30km, @1310nm) < -31dBm (OSDSFP100FxLP, @1310nm) < -33dBm (SYNSFP100WFxA/20km, @1550nm) < -33dBm (SYNSFP100WFxB/20km, @1310nm)

NOTE: *1 Dependant on equipment fitted. *2 Wipers are consumable items that need regular replacement. Please refer to the manual for recommendations and maintenance.

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MANUFACTURER OF

OEX

CAMERA STATIONS

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