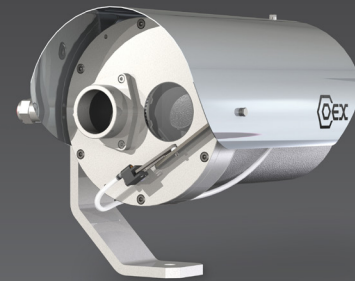


COEX™ C3000 HD IP TriMode Fixed Camera Station

The COEX™ C3000 HD IP TriMode Fixed Camera Station has a unique compact and lightweight design developed specifically for hazardous-area applications. C3000 camera stations are designed for both toughness and durability as demanded for operation in the most adverse of environments, providing unprecedented visual feedback in all lighting conditions.



COEX C3000 hazardous-area camera stations operate in the most extreme environments worldwide. Designed for toughness, durability, and certified to perform in ambient temperatures from -55°C to +70°C without compromise, they are ideal for oil and gas, marine, and industrial installations.

This premium-performance camera station combines Full HD (1080p) video with 30x optical zoom and the latest thermal imaging technology, providing comprehensive coverage of a wide range of specific site applications where the benefits of using visible and thermal imaging are required.

Featuring the latest encoding technology (3rd generation IP encoder), the camera station is capable of quad-stream H.264 and H.265 encoding for simultaneous live view and recording.

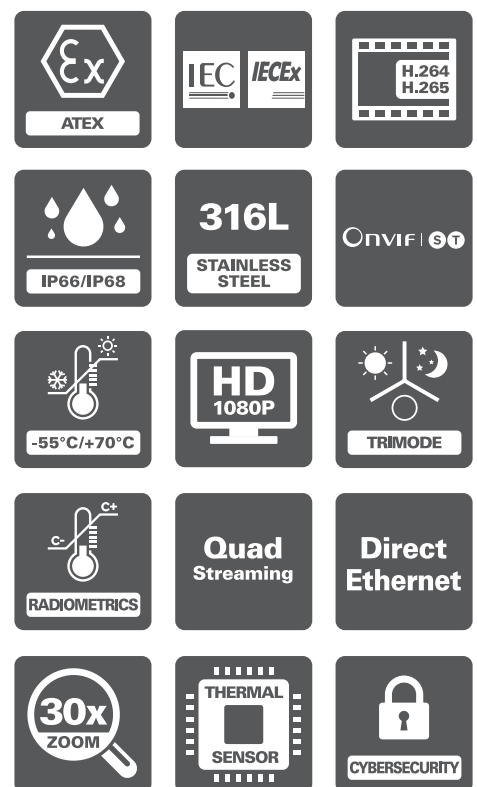
Utilizing the advanced radiometry feature, the camera station can provide real-time temperature data and differential temperature monitoring of critical devices and applications.

The C3000 HD IP TriMode Fixed Camera Station has cybersecurity measures built-in, including encrypted video streaming, HTTPS, and 802.1x protocols.

This camera station is compatible with a variety of VMS platforms through ONVIF Profile S and T compliance.

Options

- Integral wiper
- COEX FEWS3 wash systems
- Advanced radiometry



Specifications

CERTIFICATIONS / RATINGS ⁵		[OPTIONS]
ATEX / IECEx / UKCA	ATEX II 2GD, Ex db IIB/IIC Gb; Ex tb IIIC Db; T4 / T5 / T6 EN60079-0, EN60079-1, EN60079-31, IEC60079-0, IEC60079-1, IEC60079-31	
ATEX / IECEx / UKCA Certified Temperature	-55°C to +40°C (T6), +50°C (T5), +60/70°C (T4)	
EMC	EN61000-6-2, EN 61000-6-4, Class A limits	
CE / UKCA	IEC62368-1, IEC60825-1	
DNV	Pending	
INMETRO	BRA 21.GE0018X	
ENVIRONMENTAL		
Operating Temperature	-45°C to +70°C / -49°F to +158°F	
Storage Temperature	-45°C to +80°C / -49°F to +176°F	
Ingress Protection	IP66 & IP68 (30m Submersion for 4 hrs) to IEC60529, Type 6 Enclosure	
Salt Mist	IEC60068-2-52 & IEC60945 Section 8.12	
Vibration	0.7 g to IEC60068-2-6 & IEC60945	
Wind Loading	Operational to 130 km/h, survival to 268 km/h	
Humidity	5% to 95%	
MECHANICAL		
Material	Electro-polished 316L stainless steel	
Window	Optical: HD grade toughened glass, thermostatically operated demister [Wiper ²] Thermal: Germanium window with DLC (Diamond-Like Carbon) coating and impact guard	
Mounting Orientation	Upright or inverted	
Mounting Base	1 x Ø 12.5mm / 0.49" fixing hole	
Dimensions ^{*1} (W x D x H)	233 x 310 x 259 mm / 9.17" x 12.21" x 10.20"	
Weight ^{*1}	14.5 kg / 32 lbs	
Cable Gland Entries	1 x M20	
ELECTRICAL		
Power Requirements	24 V AC/DC (±10%) 50/60 Hz 9 VA Quiescent 14 VA Operating 22 VA Operating (with heater) 27 VA Max	
Power Consumption ^{*1}		
Wash Control ^{*1}	Volt free switched output (24 V 0.75 A max)	
Auxiliary Inputs ^{*3}	1 x contact closure input (5 V pull up) [up to 4 available on request]	
Relay Outputs ^{*3}	1 x volt free switched output (24 V 0.75 A max) [up to 2 available on request]	
Audio ^{*3}	[Line Input]	
CAMERA OPERATION		
Preset Memory	128 user programmable preset positions (zoom, focus)	
Wash/Wipe ^{*1/2}	[Optional wash/wipe with auto-wiper off] Zoom and focus control Preset store/recall	
ONVIF Control Features	Auxiliary controls (wash/wipe/auto focus) Wash/Wipe control mappable to ONVIF presets for control systems that have no support for auxiliary commands, alarm inputs, and relay outputs	

DAY/NIGHT CAMERA / LENS

Image Sensor	1/2.8" 2MP Starvis 2 CMOS sensor
Signal System	1080p 25/30/50/60 FPS
Effective Pixels	Approximately 2.13 megapixels
Zoom Range	30x zoom (up to 360x with digital zoom)
Focal Length/Aperture	4.3 mm (wide) to 129 mm (tele), F1.6 to F4.7
Angle of View (H)	Approx. 64.0° (Wide) to 2.4° (Tele)
Minimum Illumination (50% IRE, High Sensitivity Mode ON)	ICR-OFF mode: 0.009 lx (Shutter Speed: 1/30 s), 0.0012 lx (Shutter Speed: 1/4 s or 1/3 s) ICR-ON mode: 0.00008 lx (Shutter Speed: 1/30 s)
Minimum Illumination (50% IRE, High Sensitivity Mode OFF)	ICR-OFF mode: 0.09 lx (Shutter Speed: 1/30 s), 0.012 lx (Shutter Speed: 1/4 s or 1/3 s) ICR-ON mode: 0.00063 lx (Shutter Speed: 1/30 s)
Minimum Illumination (30% IRE, High Sensitivity Mode ON)	ICR ON mode: 0.000005 lx (Shutter Speed: 1/4 s or 1/3 s, 30%)
Wide Dynamic Range	On/off
Electronic Shutter	Auto 1/1 to 1/10,000 sec, 22 steps
Signal/Noise Ratio	> 50 dB (Weight On)
Features	Digital zoom on/off, auto/manual focus, auto/manual iris, auto/manual IR cut filter remove (ICR), auto exposure (AE), automatic gain control (AGC), auto white balance (AWB), backlight compensation (BLC), auto slow shutter, wide dynamic range (WDR), defog, on-screen text display (OSD), image invert
Image Stabilization	Super Image Stabilizer (Super/Super+)

THERMAL IMAGER	T306	T318	T618	T636
Image Sensor	Uncooled LWIR VOx microbolometer			
Pixel Pitch	12 μm			
Thermal Sensitivity	<50 mK at f/1.0			
Spectral Response	8 - 14 μm			
Refresh Rate	>9Hz [>60Hz] [25 Hz / 30 Hz]			
Pixel Resolution*6	320 x 256		640 x 512	
Fixed Focal Length	6.3 mm f/1.0	18 mm f/1.0	18 mm f/1.0	36 mm f/1.0
Angle of View	34.1° x 27.3°	12.7° x 9.7°	24.3° x 19.5°	12.2° x 9.8°
Radiometric Functionality Available	Yes	No	Yes	No
Features	Continuous digital zoom, auto/manual gain mode (AGC), auto/manual FFC (NUC), selectable color palettes, second generation digital detail enhancement (DDE), image optimization, active contrast enhancement (ACE), information based histogram equalization (IBHEQ)			
Advanced Radiometry	When used with Synergy, the advanced radiometry feature provides four regions of interest per preset position that can be individually monitored or compared against one another for temperature threshold changes.			

VIDEO ENCODING

Compression Standards	H.264 (MPEG4 part 10/AVC) high, main, base profiles H.265 (MPEG-H part 2/HEVC), MJPEG
Bitrate Mode	Constant Bitrate (CBR), Variable Bitrate (VBR)
Encoding Capability	Simultaneous streaming of both color and thermal images
Stream Bitrate*4	Up to 2 independently configurable encoded video streams per image sensor 100 kb/s to 25 Mb/s
Image Resolution*4/6	Day/Night Camera: Full HD 1080p (1920 x 1080), 720p (1280 x 720), D1 (720 x 576/480), 4CIF (704 x 576), CIF (352 x 288) Thermal Imager: Native (640x512 or 320x256), D1 (720 x 576/480), VGA (640 x 480), QVGA (320 x 240)
Image Rate*4	Thermal (Full, half, quarter, sixth), HD (up to 60 IPS)
GOP Structure	I-frame only, 5 to 240 frames
Region of Interest (ROI)	Configurable per encoded video stream, ability to crop a selected area of the image source for encoding (variable resolution and aspect ratio)

AUDIO ENCODING

Compression Standards	ARM AACLC, ARM AACLC MPEG2, ARM AACHE, ARM AACHE V2
Sample Rate	48 kHz, 44.1 kHz, 32 kHz, 16 kHz
Stream Bitrate	12 to 384 kb/s (AACHE and AACHE V2 32 to 64 kb/s)

NETWORK	
Interface Options	Ethernet (100Base-T, 10-Base-T), Auto/full/half duplex, Auto/10/100, Configurable MTU Size
Protocols	TCP/IP, UDP, ICMP, DHCP, DNS, HTTP, HTTPS, NTP, RTSP/RTP/RTCP, TSRTSP, RTMP, RTMPS, SRT, IGMP, SNMP, SYNS, SSL, TLS, 802.1x (EAP)
Control Protocol	SYNS, ONVIF (Profile S, T compliant)
Video Stream Delivery	RTSP/RTP (Unicast: UDP/TCP, Multicast UDP), TSRTSP, RTMP, RTMPS, SRT
Network Discovery	SYNS, WS-Discovery (ONVIF)
Device Security	Multiple users and 7 access levels protecting access to the web interface, ONVIF and RTSP services, HTTPS support, HTTP disable, 802.1x (EAP), video streaming disabled until change of default password, unicast stream disable
Supported Internet Browsers	Chrome/Firefox/IE/Edge (No Active-X browser components required)
System Maintenance	Field upgradeable firmware, diagnostic logs Hardware system supervisor providing temperature management, cold-start, auto-shutdown and watchdog control

NOTE: *1 Dependent on certification and equipment fitted. *2 Wipers are consumable items that need regular replacement. Please refer to the manual for recommendations and maintenance. *3 Dependent on cable tail option. *4 Maximum permissible resolution, bitrate and framerate per additional stream will be reduced dependent on the configuration of the primary stream. *5 Exact certification requirements must be specified at the time of order. *6 Dependent on lens selection.

PART CODE STRUCTURE

C3 - A B C D - E - F G H J

(Example) C3 - 2 F 95 T306 - W - B 5 E X

A - CAMERA HOUSING SIZE
2 Size 2 camera housing

B - FIXED/PTZ
F Fixed

C - DAY/NIGHT CAMERA
95 HD (1080p), 30x zoom

D - THERMAL IMAGING MODULE
T306 Medium resolution, 34.1° HFOV
T318 Medium resolution, 12.7° HFOV
T618 High resolution, 24.3° HFOV
T636 High resolution, 12.2° HFOV

E - WIPER
Without wiper
W Standard wiper
B Brush wiper

J - SPECIAL
Standard build
X Special build

H - OUTPUT TRANSMISSION TYPE
E Ethernet Base-T

G - BASE/MOUNTING TYPE
Fixed-Std mounting
5 Fixed-Adjustamount

F - TECHNOLOGY SERIES
B 3rd Gen, IP encoder