COEX™ 1000 HD IP Fixed Camera Station with Integrated IR Illuminator
C1000-FHD2-IR

The COEX™ 1000 HD IP Fixed Camera Station with Integrated IR Illuminator has a unique compact and lightweight design developed specifically to meet the worldwide demand for surveillance and process monitoring of harsh industrial and marine environments.

COEX 1000 safe-area camera stations are manufactured from the highest grade, corrosion resistant, electro-polished 316L stainless steel. Designed for toughness and durability to operate in the most adverse environments from freezing temperatures to the blistering heat of desert conditions.
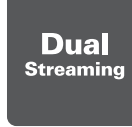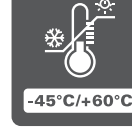
A premium performance camera station that combines a 1080p HD Sony Exmor™ sensor with a 4.4x varifocal lens to provide outstanding image quality under a wide range of environmental and lighting conditions.

Incorporating high efficiency encoding technology, the camera station is capable of dual stream H.264 and H.265 encoding for simultaneous live view and recording.

COEX camera stations are compatible with a variety of VMS platforms through ONVIF Profile S, G and T compliance.

Options

• Video Analytics

VIDEO ANALYTICS — **HD 1080P** — **IP66/IP67**

H.265 — **Dual Streaming** — **-45°C/+60°C**

H.264 — **ONVIF | S T** — **4.4x ZOOM**

60 FPS — **ONVIF | G** — **TAMPER DETECTION**

LOW LIGHT — **AAC** — **Direct Ethernet**

SYNECTICS

Specifications

CERTIFICATIONS / RATINGS	[OPTIONS]
EMC	EN61000-6-2, EN61000-6-4 Class A limits
CE / UKCA	IEC62368-1
DNV	TAA00001M2

ENVIRONMENTAL	
Operating Temperature	-20°C to +60°C / -4°F to 140°F
Storage Temperature	-20°C to +70°C / -4°F to 158°F
Ingress Protection	IP66 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

MECHANICAL	
Material	Electro-polished 316L stainless steel
Window	2-part composite acrylic window
Mounting Orientation	Upright or inverted
Mounting Base	1 x Ø 10.5 mm fixing hole
Dimensions (W x D x H)[*1]	166 x 310 x 230 mm / 6.54" x 12.20" x 9.06"
Weight[*1]	5 kg / 11 lbs
Cable Gland Entries	1 x M20

ELECTRICAL	
Input Power Options	24 V AC (±10%) 50/60 Hz / 12 V DC (±10%) / PoE(802.3at) Class 0
Power Consumption[*1]	5 VA Quiescent 10 VA Quiescent (with IR LED's) 15 VA Max
Auxiliary Inputs[*3]	1 x contact closure input (5 V 10kΩ pull up)
Relay Outputs[*3]	2 x Relay Outputs (300 V AC/DC Max)
Audio Input[*3]	[Line In]
Audio Output[*3]	[Line Out]

CAMERA OPERATION	
Motion Detection	On / Off / Schedule
Tamper Alarm	On / Off / Schedule
Video Analytics[*2]	Abandoned object, intrusion detection, camera sabotage, wrong direction, loitering detection, object counting, object removal, stopped vehicle
Event Notification	HTTP / FTP / SMTP
SD Card Support	microSDXC 128 GB support
ONVIF Control Features	Zoom and focus control, alarm inputs and relay outputs.

DAY / NIGHT CAMERA / LENS

Image Sensor	1/2.7" Progressive CMOS
Signal System	5M 25/30/50/60 FPS
Effective Pixels	2720 (H) x 1976 (V); approximately 5.37 megapixels
Zoom Range	4.4x optical zoom (10x digital zoom)
Focal Length/Aperture	2.7 mm (wide) to 12 mm (tele), F1.6 (wide)
Angle of View (H)	102.1° (wide) to 31.5° (tele)
Minimum Illumination (30IRE, ICR ON)	B/W: 0.008 lux (0.0 lux IR LED's on) Color: 0.08 lux
Wide Dynamic Range	True WDR (120 dB)
Electronic Shutter	Auto (1/1 to 1/10000 s)
Noise Reduction	3D, 2D, color
Features	Digital zoom, noise reduction (NR), backlight compensation (BLC), wide dynamic range (WDR), privacy masking, tamper alarm, image rotation, auto/manual IR cut filter remove (ICR)
Privacy Masking	5 Masks, 8 colors
IR Lighting	8 LED's, up to 40 m distance

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	Up to 2 independently configurable encoded video streams
Stream Bitrate[*4]	64 kb/s to 20.48 Mb/s
Image Resolution[*4]	Stream 1: (2688 x 1944), (2592 x 1944), (2688 x 1512), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), SVGA (800 x 600), D1 (720 x 480) Stream 2: (2688 x 1944), (2592 x 1944), (2688 x 1512), 1080p (1920 x 1080), SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), (960 x 544), D1 (720 x 480), VGA (640 x 480), (640 x 360), (352 x 240), (320 x 240) Stream 3 & 4: SXGA (1280 x 1024), 720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), (960 x 544), D1 (720 x 480), VGA (640 x 480), (640 x 360), (352 x 240), (320 x 240)
Image Rate[*4]	1 to 60 IPS
GOP Structure	Variable
Max. Number of Streams	15 unicast streams maximum

NETWORK

Interface Options	10Base-T (10 Mbps), 100Base-TX (100 Mbps) or 1000Base-T (1000 Mbps) operation
Protocols	IPv4/v6, TCP/IP, UDP, ICMP, ARP, DHCP, HTTP, HTTPS, NTP, RTSP/RTP, IGMP, SNMP, PPPoE, QoS, UPnP, SMTP, FTP, DDNS
Control Protocol[*5]	SYNX-HD, ONVIF (Profile S, G, T compliant)
Video Stream Delivery	RTSP/RTP (Unicast: UDP/TCP, Multicast UDP)
Network Discovery	SYNX-HD, WS-Discovery (ONVIF)
Device Security	Password protected web interface, HTTPS support, IP filter, IEEE 802.1X
Supported Internet Browsers	Microsoft Internet Explorer 6.0 or later / Mozilla Firefox / Google Chrome / Apple Safari
System Maintenance	System logs download

NOTE: *1 Dependant on equipment fitted. *2 Requires video analytics software license. Accuracy of object detection and tracking will vary depending on elements such as scene activity, environmental conditions and camera placement. Please enquire with Synectics about your video analytics requirements. *3 Dependant 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 A supported SD memory card is required for profile G, please refer to the manual for recommendations.

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MANUFACTURER OF

COEX

CAMERA STATIONS