YHH30B Series HD IP Camera Station

Fixed, for both Ex & safe/harsh areas

Overview

Made from 316L stainless steel and designed specifically for use in hazardous area and or harsh environmental conditions, this hard wearing and corrosion resistant fixed camera station is suitable for a variety of applications both onshore and offshore in Oil & Gas, Marine, Wind, Chemical and many other industries where quality and durability are a pre-requisite.

With zoom capability as standard, a variety of mounting brackets, wiper/washer tank, POE, EOC, and fiber optic options the YHH30B has the operational capability for most demanding CCTV applications.

Features

- ATEX & IECEx certified.
- IP66 and IP68.
- 1080p HD IP camera.
- -40ºC to +65ºC.
- 316L Stainless Steel.
- Automatic Heater.
- Optional POE
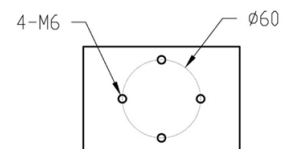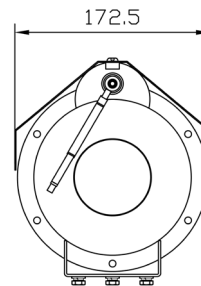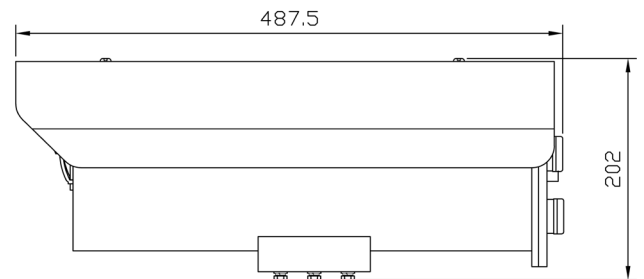- Optional EOC
- Optional fiber optic
- Optional wiper.

ATEX *IECEx*

Powering Business Worldwide

Certification

ATEX certificate:	Presafe 19 ATEX 15006X
IECEx certificate:	IECEx PRE 19.0070X
Ex Mark:	
YHH30B	Ex db IIC T5 Gb, Ex tb IIIC T95°C Db
YHH30B with fiber optic	Ex db op pr IIC T5 Gb, Ex tb op pr IIIC T95°C Db
Vibration and shock test	IEC60068-2-6, IEC60068-2-27 Class B

Specification

Material:	316L Stainless Steel
Finish:	Polished.
Operating Temp	-40°C to +65°C
Atmospheric pressure:	80~110KPa
Humidity:	≤95%RH (+25°C)
Automatic Heater:	Activates at -10°C
Ingress Protection:	IP66 and IP68 (1.2m/45min)
Wiper:	Option available
Net weight	15kg
Ship weight	17kg with carton package, 27kg with wooden crate package
Cable Entries:	3 x M25x1.5 with blind plugs
Wall Bracket Load:	50Kg
Voltage:	110AVC~240VAC(±10%) / 24VAC (±10%) / POE(DC54V)
Current:	0.2~0.45A /≤2A/≤1A
Power:	≤50W
Audio & Alarm connection:	1 for audio input / ouput and 1 for alarm input / output
Transmission:	Standard Ethernet IP / Fiber optic transmission / IP over Coax transmission
VMS compliance:	ONVIF Profile S & Profile T
Applicable wash system:	Applicable wash terminals for connection to external wash system driven by solenoid valve or pump. The power voltage input of solenoid valve or pump shall be consistent with voltage input of camera station.

General arrangement drawing (all dimensions in mm)

Fiber Optic

Data Interface:	Ethernet 1310/1550nm
Data Rate:	10/100 Mbps IEEE 802.3 Compliant, Full or Half Duplex Electrical Port / Full Duplex Optical Port
Connector:	ST
Fiber:	Single mode / Multimode
Optical Power Budget:	10 dB
Maximum Distance:	3 km (2 miles)

Ethernet over Coax

Data Interface:	10/100BaseT(X) Ethernet
Data Rate:	DIP switch selection of 10/100 Mbps Full data rate / full duplex up to the maximum rated distance
RFC:	2544 TCP/IP Packet Transmission
Standards:	IEEE 802.3af PoE (CLRFE1EO(C,U)P/M), RFC: 768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
Transmission Distances:	10M (5,000 ft 1,524 m) 100M (2,000 ft 610 m)

Camera options

22x zoom 3MP HD IP camera

Image sensor	Progressive scan CMOS 1/2.8"
Resolution	2304 x 1296 @ 30fps
Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96°
Min. illumination	Colour : 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.

33x zoom 3MP HD IP camera

Image Sensor	Progressive scan CMOS 1/2.8"
Resolution	2304 x 1296 @ 60fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°
Min. Illumination	Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)
Streaming	Five streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.

22x zoom 5MP HD IP camera

Image Sensor	Progressive scan CMOS 1/2.7"
Resolution	2880 x 1620 @ 30fps
Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09°
Min. Illumination	Colour : 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.

Ordering requirements
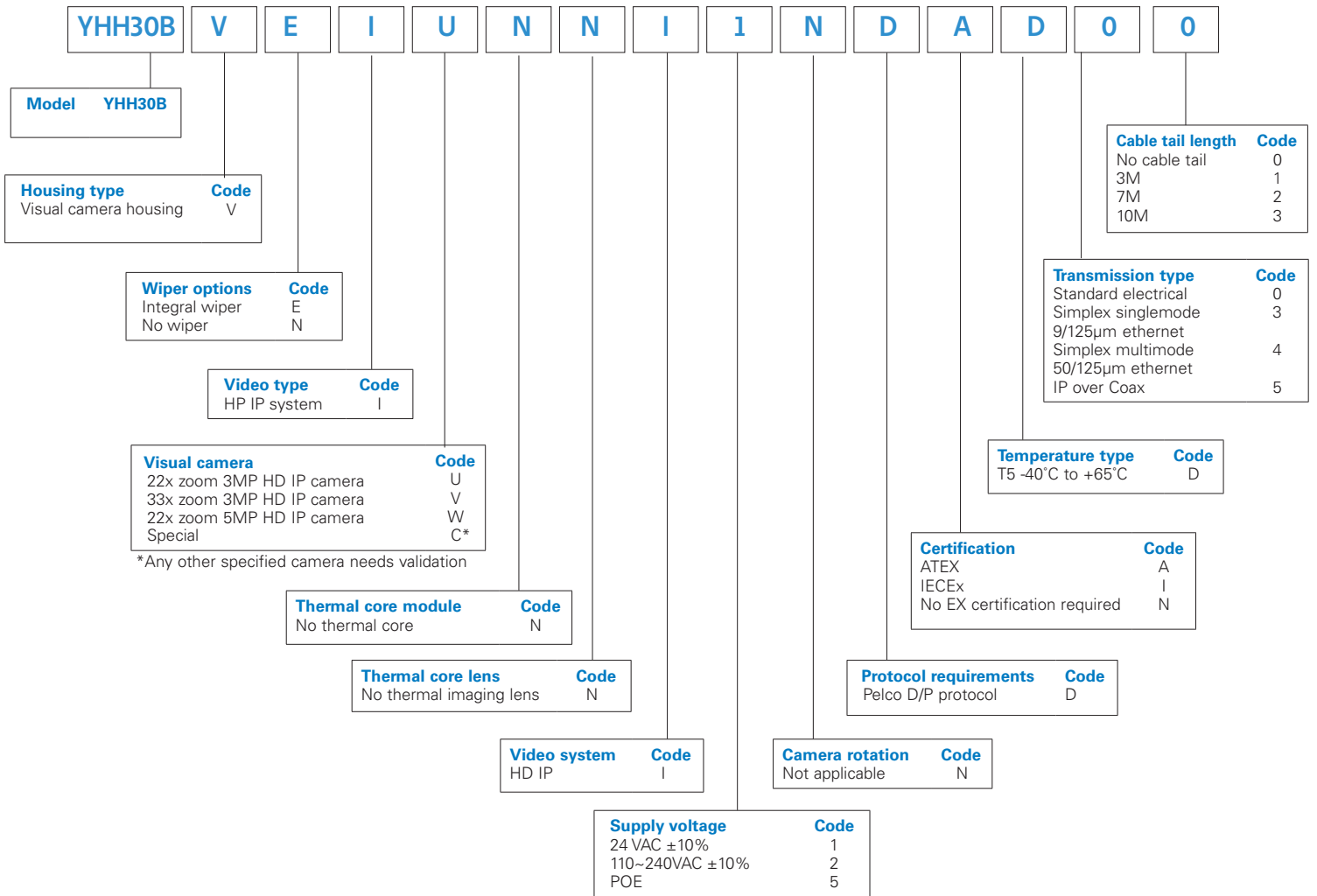
The following code is designed to help in selection of the correct unit. Build up the reference number by the code for each selection. Any special requirement please consult Eaton technical sales department.

YHH30B	V	E	I	U	N	N	I	1	N	D	A	D	0	0

Model	YHH30B

Housing type	Code
Visual camera housing	V

Wiper options	Code
Integral wiper	E
No wiper	N

Video type	Code
HP IP system	I

Visual camera	Code
22x zoom 3MP HD IP camera	U
33x zoom 3MP HD IP camera	V
22x zoom 5MP HD IP camera	W
Special	C*

*Any other specified camera needs validation

Thermal core module	Code
No thermal core	N

Thermal core lens	Code
No thermal imaging lens	N

Video system	Code
HD IP	I

Supply voltage	Code
24 VAC ±10%	1
110~240VAC ±10%	2
POE	5

Once POE is selected please use standard electrical transmission type.

Camera rotation	Code
Not applicable	N

Protocol requirements	Code
Pelco D/P protocol	D

Certification	Code
ATEX	A
IECEx	I
No EX certification required	N

Temperature type	Code
T5 -40°C to +65°C	D

Transmission type	Code
Standard electrical	0
Simplex singlemode 9/125μm ethernet	3
Simplex multimode 50/125μm ethernet	4
IP over Coax	5

Cable tail length	Code
No cable tail	0
3M	1
7M	2
10M	3