YHW156B HD IP Series

PTZ camera station for both Ex and safe 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 Pan, Tilt, Zoom 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.

The continuous 360º pan rotation and tilt from -90º to +90º gives an unrestricted view of the surrounding area.

With ONVIF protocol as standard, a variety of mounting brackets, wiper/washer tank, fiber optic transmission options, and an additional illuminator the YHW156B has the operational capability for most demanding CCTV applications.

Features

- CNEx certified.
- IP66 and IP68.
- 1080p HD IP camera.
- -40ºC to +65ºC.
- 304L or 316L Stainless Steel.
- 360º continuous pan rotation.
- +90º to -90º tilt rotation.
- Multiple scanning mode.
- Automatic Heater.
- Optional IR illuminator.
- Optional fiber optic transmission
- Wiper.

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Certifications

CNEx certificate:	CNEx20.1844X
EX mark:	Ex d IIC T6 Gb/Ex tD A21 IP68 T80°C
Vibration and shock test	IEC60068-2-6, IEC60068-2-27 Class B

Specifications

Material:	304L or 316L Stainless Steel
Finish:	Polished
Operating Temp:	-40ºC to +65ºC
Atmospheric pressure:	80~110KPa
Humidity:	≤95%RH (+25ºC)
Automatic heater:	Activates at -10ºC
Ingress protection:	IP66 and IP68(1.2m / 45min)
Weight:	40Kg
Ship weight:	58Kg
Wall bracket load:	100Kg
Voltage:	110VAC to 240VAC (±10%) / 24VAC (±10%) , 50/60Hz
Current:	0.5~1.2A / ≤5A
Power:	≤120W.
Pan:	360° continuous
Pan Speed:	0.1°/S to 45°/S
Tilt:	+90° to -90°
Tilt Speed:	0.1°/S to 40°/S
Presets:	128
Preset accuracy:	≤0.1°
Cable entries:	2 x M25x1.5 with blind plugs
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 2.4 Profile S, T & G
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.

IR Illuminator Specifications

View Distance:	100m
View Angle:	10°
Wavelength:	850nm
Control:	Auto/Manual

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
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

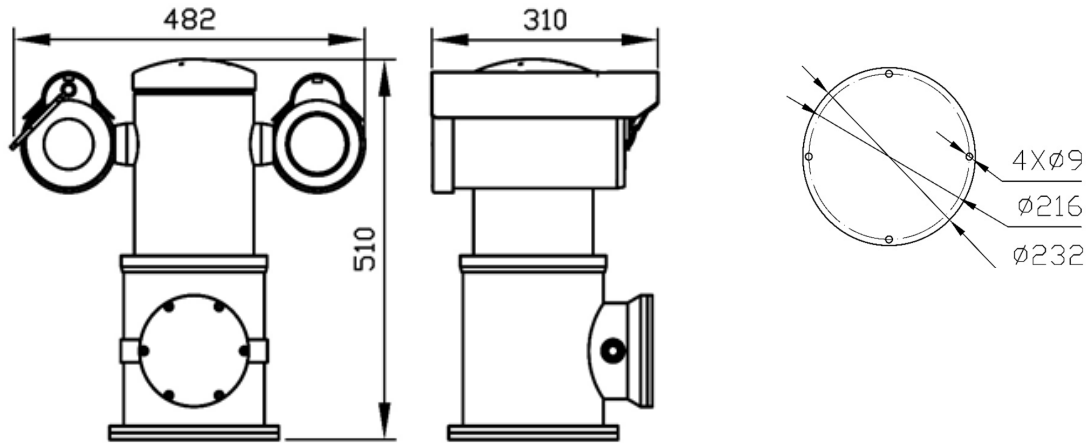|	
Image Sensor	Progressive scan CMOS 1/2.7"
Resolution	2880 x 1620 @ 30fps
Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09°
Min. Illumination	Colour : 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & 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.

General arrangement drawing (all dimensions in mm)

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.

YHW156B A C V E I U N N 1 1 N D X D 0 0

Material | **Code**
304L stainless steel | A
316L stainless steel | B

Surface finish | **Code**
Precision machining | A
Power coated RAL9016 | B
Polished | C

Housing type | **Code**
Visual camera housing | V

Wiper options | **Code**
Integral wiper | E

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 lens | **Code**
No thermal imaging lens | N

Thermal core module | **Code**
No thermal core | N

Supply voltage | **Code**
24 VAC ±10% | 1
110~240VAC ±10% | 2

Camera rotation | **Code**
Continuous rotation | 1

Camera rotation | **Code**
Not applicable | N

Protocol requirements | **Code**
Pelco D/P protocol | D

Certification | **Code**
CNEx | X
No EX certification required | N

Temperature type | **Code**
T6 -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
Type3 lightning resist | 8

Cable tail length | **Code**
No cable tail | 0
3M | 1
7M | 2
10M | 3
3M armoured | 1A
7M armoured | 2A
10M armoured | 3A