

# YHPTZ41B Series HD IP Camera Stations

PTZ camera 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 360° pan rotation and tilt from -90° to +90° 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 YHPTZ41B has the operational capability for most demanding CCTV applications.

## Features

- ATEX & IECEx certified.
- IP66 and IP68.
- 1080p HD IP camera.
- -40°C to +65°C.
- 316L Stainless Steel.
- 360° continuous pan rotation.
- +90° to -90° tilt rotation.
- Multiple scanning mode.
- Automatic Heater.
- Optional IR illuminator.
- Optional fiber optic transmission
- Wiper.



## Certifications

<b>ATEX certificate:</b>	Presafe 19 ATEX 15007X
<b>IECEx certificate:</b>	IECEx PRE 19.0071X
<b>EX mark:</b>	
YHPTZ41B	Ex db op is IIC T6 Gb, Ex tb op is IIIC T80°C Db
YHPTZ41B-1	Ex db IIC T6 Gb, Ex tb IIIC T80°C Db
YHPTZ41B with fiber optic	Ex db op is op pr IIC T6 Gb, Ex tb op is op pr IIIC T80°C Db
YHPTZ41B-1 with fiber optic	Ex db op pr IIC T6 Gb, Ex tb op pr IIIC T80°C Db
<b>Vibration and shock test</b>	IEC60068-2-6, IEC60068-2-27 Class B

## Specifications

<b>Material:</b>	316L Stainless Steel
<b>Finish:</b>	Polished
<b>Operating Temp:</b>	-40°C to +65°C
<b>Atmospheric pressure:</b>	80~110KPa
<b>Humidity:</b>	≤95%RH (+25°C)
<b>Automatic heater:</b>	Activates at -10°C
<b>Ingress protection:</b>	IP66 and IP68(1.2m / 45min)
<b>Weight:</b>	33Kg for YHPTZ41B-1, 40Kg for YHPTZ41B
<b>Ship weight:</b>	51Kg for YHPTZ41B-1, 58Kg for YHPTZ41B with wooden crate package.
<b>Wall bracket load:</b>	100Kg
<b>Voltage:</b>	110VAC to 240VAC (±10%) / 24VAC (±10%) , 50/60Hz or 24VDC
<b>Current:</b>	0.5~1.2A / ≤5A
<b>Power:</b>	≤120W.
<b>Pan:</b>	360° continuous
<b>Pan Speed:</b>	0.1°/S to 45°/S
<b>Tilt:</b>	+90° to -90°
<b>Tilt Speed:</b>	0.1°/S to 40°/S
<b>Presets:</b>	128
<b>Preset accuracy:</b>	≤0.1°
<b>Cable entries:</b>	2 x M25x1.5 with blind plugs
<b>Audio &amp; Alarm connection:</b>	1 for audio input / output and 1 for alarm input / output
<b>Transmission:</b>	Standard Ethernet IP / Fiber optic transmission / IP over Coax transmission
<b>VMS compliance:</b>	ONVIF 2.4 Profile S, T & G
<b>Applicable wash system:</b>	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

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

## Fiber Optic

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

## Ethernet over Coax

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

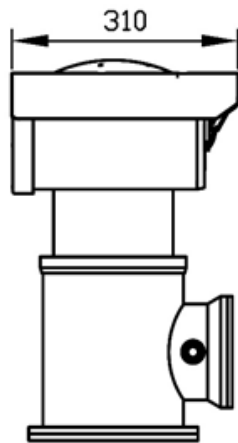
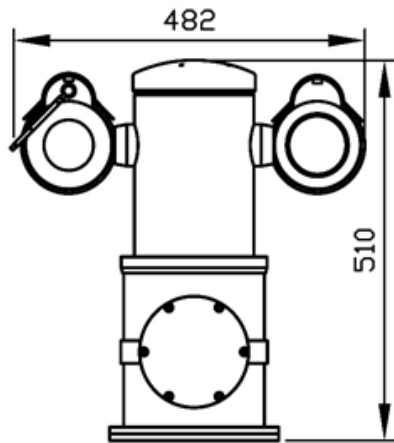
Image Sensor	Progressive scan CMOS 1/2.8"
Resolution	2304 x 1296 @ 60fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°
Min. Illumination	Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)
Streaming	Five streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & 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

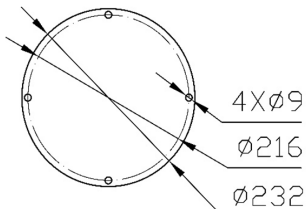
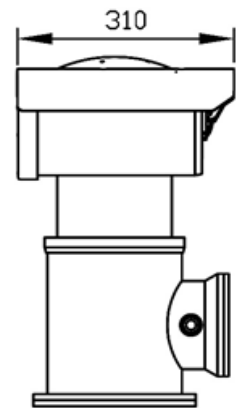
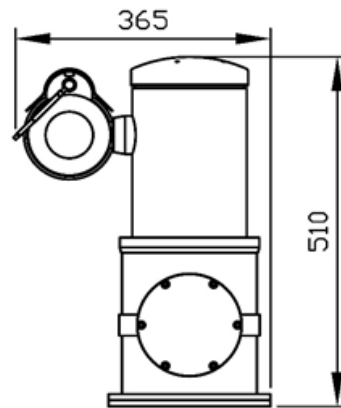
Image Sensor	Progressive scan CMOS 1/2.7"
Resolution	2880 x 1620 @ 30fps
Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09°
Min. Illumination	Colour : 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day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

YHPTZ41B



YHPTZ41B-1



# 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.

