CROUSE-HINDS SERIES

YHW750 IP Optical & Thermal Series

Explosion proof PTZ camera station



Overview

Made from 304 or 316L stainless steel and designed specifically for use in hazardous area and harsh environmental conditions. This hard-wearing and corrosion resistant fixed thermal 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. The belt driving gear box design keeps the movement smooth and ensures a long lifecycle use without mechanical frictions leading to internal damages.

With ONVIF protocol as standard and multiple options of optical & thermal camera blocks, the YHW750 has the operational capability for most demanding video surveillance applications.

Features

- CNEx certified.
- Patented Ex protection design with thermal camera window.
- 304 or 316L stainless steel enclosure.
- HD IP optical imaging.
- Thermal imaging resolution 640x512 or 384x288 option available.
- Temperature measurement range: -20°C to +150°C or 0°C to +550°C.
- Work temperature-40°C to +60°C.
- IP68.







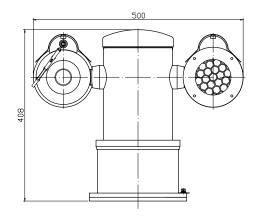


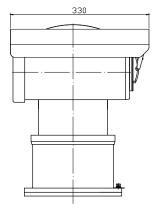
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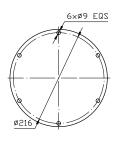
C				
Certifications				
Ex mark:	Ex d IIC Gb, Ex tD A21 IP68 T80°C			
Certificate No:	CNEx21.2455X			
Specifications				
Material:	304 or 316L Stainless Steel enclosure			
Finish:	Natural, polished or powder coated option available			
Operating temp:	-40°C to +60°C			
Atmospheric pressure:	80~110KPa			
Humidity:	≤95%RH -10°C)			
Automatic heater:	Activates at -10°C (±5°C)			
Ingress protection:	IP68(1.2m / 45min)			
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			
Weight:	32Kg			
Ship weight:	35Kg			
Wall bracket load:	100Kg			
Voltage:	110VAC to 240VAC (±10%)			
Current:	≤1A			
Mounting mode:	Wall mounting, base mounting			
Typical Camera Spec				
22x zoom 3MP HD IP camera:				
Image Sensor:	Progressive scan CMOS 1/2.8"			
Resolution:	2304 x 1296 @ 30fps			
Lens:	22x zoom 5.2~114.4mm F1.5~F3.8, angle of view 53.74° - 2.96°,			
Min illumination:				
Streams:	Colour : 0.002Lux@(F1.5,AGC ON) B/W : 0.001Lux@(F1.5,AGC ON)			
	Triple streams in H.265 / H.264			
Features:	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)			
Standards protocols:	L2TP, IP√4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UP∩P, HTTP, SNMP, SIP			
33x zoom 3MP HD IP camera:				
Image Sensor:	Progressive scan CMOS 1/2.8"			
Resolution:	2304 x 1296 @ 60fps			
Lens:	33x zoom 4.5~148.5mm F1.5~F4.0, angle of view 56.11° - 2.67°,			
Min illumination:	Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)			
Streams:	Triple streams in H.265 / H.264			
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 zoom 5.2~114.4mm F1.5~F3.8, angle of view 55.46° - 3.09°			
Min illumination:	Colour: 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)			
Streams:	Triple streams in H.265 / H.264			
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			

Thermal detector	Uncooled FPA detector	Uncooled FPA detector			
Resolution	640×512, 25HZ or 384×288, 50HZ				
NETD	<50mK				
Temp. measurement range	-20°C~150°C or 0°C~550°C				
Temp. measurement accuracy	±2°C or ±2% whichever is higher				
Temp. measurement mode	Any fixed point, Full screen max./min. temperature capture, Center spot, Line/Area analysis tool, isothermal analysis, temperature range selection				
Ethernet protocol	Ethernet/IP, TCP, UDP, SNTP, RTSP, HTTP, ICMP, SMTP, DHCP, UPnP, PPPOE				
/MS compliance	ONVIF, GB28181				
mage polarity adjustment	Heat in black or white image				
mage palette	Up to 18 palette options available				
Video compression	H.264/265	H.264/265			
Alarm function	Support configurable area, line or other individual alarms and external equipment to trigger alarms				
Ethernet interface	Standard Ethernet RJ45 10M/100M/1000M self-adaptive				
Alarm interface	1 alarm input and 1 alarm output.				
Options available					
Resolution	Lens focus length	Field of view(H×V)	IFOV		
384×288	4mm	90.3°×68.7°	4.250mrad		
384×288	6.2mm	61.5°×45.7°	2.742mrad		
384×288	9.7mm	37.9°×28.7°	1.753mrad		
384×288	13mm	28.2°×21.3°	1.308mrad		
384×288	19mm	19.5°×14.7°	0.895mrad		
384×288	25mm	14.9°×11.2°	0.680mrad		
384×288	35mm	10.6°×8°	0.486mrad		
384×288	50mm	7.4°×5.6°	0.340mrad		
640×512	4.1mm	89.8°×75.7°	2.92mrad		
640×512	5.8mm	70°×57°	2.06mrad		
640×512	9.1mm	48°×38°	1.31mrad		
640×512	13mm	33.5°×26.9°	0.92mrad		
640×512	19mm	22.9°×18.4°	0.63mrad		
640×512	25mm	17.4°×14°	0.48mrad		
640×512	35mm	12.5°×10°	0.34mrad		
640×512	55mm	8°×6.4°	0.21mrad		

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.

