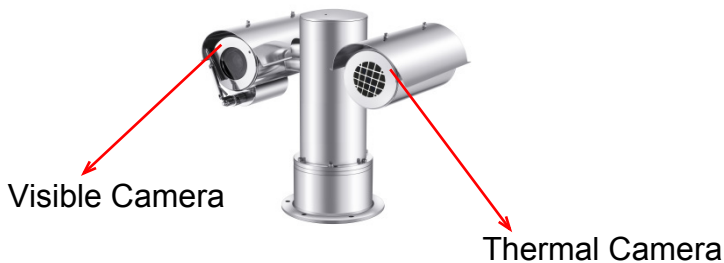


EX-PTZ-THERMAL

Explosion-proof Anti-Corrosion PTZ Dual light Thermal Camera



- 2-Megapixel 1/2.8" Progressive Scan CMOS, maximum resolution up to 1920 × 1080, clear and delicate images
- 44X optical zoom, fast and accurate focusing
- Support ultra-low illumination, 0.002 lux @ F1.2 (AGC ON) color, 0.0002 lux @ F1.2 (AGC ON), black and white
- Support wide dynamic, 3D digital noise reduction, strong light suppression and other functions
- Support H.265/H.264 efficient compression algorithm, greatly reducing the bit rate
- Full-featured: heartbeat, PTZ control, alarm, audio, user management
- Intelligent wiper function, the wiper adopts automobile wiper blade, which has good weather resistance and easy replacement.
- Thermal Camera Built-in video compression coding, easy for network transmission Powerful IDE image detail enhancement algorithm. Intelligent high-temperature pre-alarming with various adjustable grades, higher detection efficiency, less misinformation. Embedded intelligent analysis supports motion detection, line crossing detection, regional entry /exit detection, and intelligent PTZ tracking. Professional photoelectrical zooming technology. AGC (automatic gain stability), 3D noise reduction, IDE. Double serial communication RS232 /RS485.
- 360° continuous rotation in the horizontal direction, -90° to +90° in the vertical direction, no monitoring blind zone, Rotation speed :0.1- 40°/s adjustable.

The equipment shall be marked with the following:



II 2 G D

Ex db IIC T6 Gb

Ex tb IIIC T80°C Db

Ta= -40°C ≤ Tamb ≤ +60°C

Product Description

The series HD 2MP explosion-proof anti-corrosion PTZ Dual light thermal camera is fully-developed and specially designed for use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is zone 1 and zone 2 of the t1-t6 group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22 of the t1-t6 group. Such as: petroleum, chemical, mine, military, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain processing and storage. Also widely used for maritime environment.

Built-in both visible camera and thermal camera which make it applicable in scenarios of zero visibility and strong light source interference.

The system uses 304/316L stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of -40°F~140°F (-40°C~60°C). This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities.



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Technical Specifications of Visible Camera

Model	
Vandal Resistance	IK10
Protection Level	IP68
Visible Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Signal System	PAL/NTSC
Minimum Illumination	Color: 0.002 lux @ F1.2 (AGC ON); B/W: 0.0002 lux @ F1.2 (AGC ON)
Day/Night Functionality	ICR
Scanning System	Progressive Scan
Shutter	1/6~1/8000s
Day/Night Switch	ICR
WDR	120dB
OSD	Customized OSD with custom effects for multiple content styles
Motion Detection	Support
Privacy Mask	Support
Statistical Analysis	Traffic Statistics
Intelligent Functions	Cross-line detection, illegal parking, automatic tracking, face detection, license plate recognition
Lens	
Optical Zoom	44X
Aperture/Focal Length	F1.2 ~ F3.5, f=5 ~ 220mm
Menu Control	
Exposure Mode	Auto/Manual
Focus Mode	Auto/Manual
Video/Audio	
Video Compression Standard	H.265/H.264/MJPEG
Encoding Capability	1080p@60fps
Audio Compression Standard	G.711a, G.711u, AAC
Network Features	
Supporting Protocol	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP
General Function	Password protection, heartbeat, multi-user access control
Interface	
Audio Port	1 Input, 1 output Optional
Ethernet Port	1 RJ45 10m/100m self-adaptive Ethernet port
Alarm Port	1 Alarm input, 1 Alarm output Optional
Access Protocol	ONVIF
Power Cables	3
RS232 Interface	1 RS232 interface
General Specification	
Infrared Distance	150m
Storage Function	Optional
Rotation Angel	Horizontal: 0°-360° Vertical: -90°-+90°
Temperature Range	-40°C ~ 60°C
Relative Humidity	0 -- 95%
Product Material	316L or 304 Stainless steel
Power Supply	AC 85V ~ 260V or DC24V 3A
Dimensions	449*303*445mm (length * width * height)
Inlet Hole Specification	1 Entry hole M25"
Installation Method	Wall or column platform installation
Weight	≤ 26Kg
Product Certifications and Approval	
Product Certifications	CE, ATEX, FCC

Technical specifications of thermal camera

Characteristics/performance	ThermEye3-T	ThermEye6-T
Infrared thermal imaging parameters		
Type of detector	Non-cooled microthermometer	
Resolution/pixel spacing	384*288/17μm	640,480/17μm
Sensitivity	≤60 mk@300mk	≤60 mk@300mk
Frame frequency	25Hz	
Response band	8-14μm	
Optical properties		
Focal Point	Fixed lens 9 / 15/ 19/ 25 /35/ 40/ 50/ 75/ 100/150 mm optional	
Focus	Manual/automatic (electric lens supports auto-focusing)	
Image processing		
Network image resolution	720 x576	640 x 480
Analog image resolution	720 x576	640 x 480
Frame stream image frame rate	25 fps: 720x576 25	25 fps: 640x 480 25
Frame rate of sub-stream image	25 fps: 352x 288 25	25 fps: 352x 288 25
Thermal Image Mode	HDR(wide dynamic) mode, sea and sky mode, heaven and earth mode	
Image enhancement	IDE(image detail enhancement)	
Palettes	9 color palette options (including iron red, rainbow, black and white, etc.), custom color palette	
Network		
Network protocol	TCP/IP, ICMP, HTTP, DHCP, DNS, RTP, RTSP, IGMP, 802.1 X, ONVIF (Profile S)	
Video compression standard	H.264	
Number of video links	Up to 10 at the same time	
Number of users	Up to 10 users	
Radiation Temperature Measurement Function		
Object Temperature Measurement Function	-20℃ ~+120℃, 0℃ ~+300(customizable)	
Accuracy of temperature measurement	±5℃ or 5% of readings	
Temperature measurement method	Support global, point, line, rectangle and other temperature measurement methods	

Accessories



Bracket

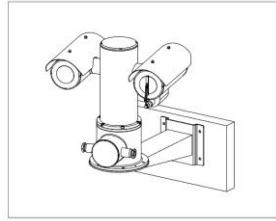
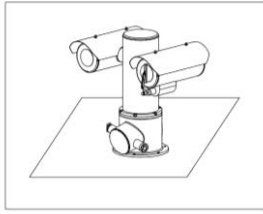


Ex-Proof hose

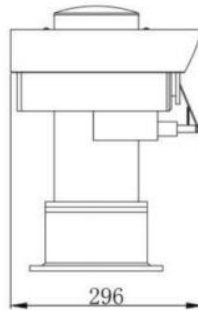
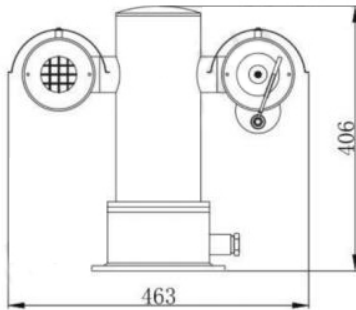


Ex-Proof Junction Box

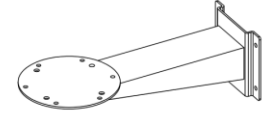
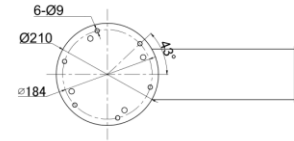
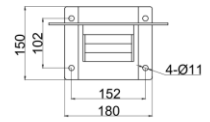
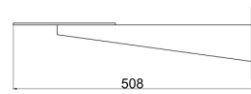
Mounting



Dimensions



Mounts Dimensions



Unit: mm