KDY-EX-PTZT625IR02

Explosion Proof Anti-Corrosion Thermal Imaging Pan &Tilt Temperature Measurement Camera

Explosion Proof Mark

Ex II 2G Ex db op is IIC T6 Gb
II 2D Ex tb op is IIIC T80° C Db IP68
IP66

Explosion-proof design

the camera has passed international ATEX certifications, and can be used in gas and dust hazardous scenarios
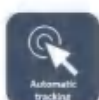
Material

316L stainless steel enclosure and anti -corrosion spray treatment, protecting the camera from damage caused by sparks or corrosive materials

Ingress Protection

IP68/IK08 water resistant and vandal proof, preventing water ingress for outdoor use

Key Features

Temperature Measurement	Automatic tracking	Sensitivity ≤50mk	IP68
IK 08	INFRA		

- Uncooled coke plane detector, the sensitivity is better than 50 mk;
- Maximum I resolution 640*512 / 384*288;
- Support point, line, area, full screen and screen temperature measurement and other temperature measurement methods;
- Supports various alarm methods such as exceeding high temperature, lower than low temperature, between and beyond;
- Support automatic tracking of high and low temperature cursor;
- Support the front-end temperature measurement of the device to reduce the pressure of the back-end server;
- supports 18 color palette displays, such as black hot, white hot, iron red and rainbow;
- Support H264 and H265 video compression algorithms;
- Supports RS485 and RS232 serial port communication;
- With the alarm input and output interface;
- Support RTSP, ONVIF, GB / T 28181, MODBUS and other protocols;
- IR-Cut Removable (ICR) Filter for Day/Night switching High-efficiency infrared/white light array lamp, low thermal energy, low power consumption, infrared distance up to 100m.
- 360° continuous rotation in the horizontal direction, -90° to +90° in the vertical direction, no monitoring blind zone , Rotation speed : 0.1- 4 5 °/s adjustable.

Ⓔx

REV 1.02.07.24

Thermal imaging parameters

Thermal imaging parameters		
Sensor Type	Uncooled focal plane detector	
resolution Ratio	640× 512@25fps	384×288@50fps
Like a Meta Size	14μ m	17um
Response Band	8 ~14μm	
Noise Equivalent Temperature Difference	≤ 50mk(@25℃，F# =1.0)	
Focal Distance	25mm /19mm /13mm	25mm /19mm /13mm
Angle of Field	25mm：20.3°× 16.3° 19mm：26.6°×21.4° 13mm：38°× 30.8°	25mm：14.9°× 11.2° 19mm：19.5°× 14.7° 13mm：28.1°×21.3°
Transient Field of View Angle	25mm：0.560mrad 19mm：0.737mrad 13mm：1.077mrad	25mm：0.680mrad 19mm：0.895mrad 13mm：1.308mrad
Palette	Iron red, rainbow, white hot, black hot and other 18 kinds of color palette	
network		
Networking Protocol	TCP, UDP, RTP, RTSP, DHCP, PPPOE, UPNP, DDNS, FTP, ICMP, ONVIF, GB/T28181	
Preview the Number of Videos Simultaneously	10	
Video Compression Standard	H .264/H 5.26	
picture		
Maximum Image Resolution	640× 512@25fps	384×288@50fps
Master Substream Image	Max. 640*512 @ 25 fps	Max of 384*288 @ 50 fps
Image Flip	Support for both horizontal and vertical flipping	
function		
Temperature Measurement Range	-20℃ ~ +550℃	
Accurate Temperature Measurement	High precision: ± 2℃ or ± 2% of the reading (take the maximum value of) *	
Temperature Measurement Type	Support point temperature measurement, line temperature measurement, area temperature measurement, shielding temperature measurement and other ways, the parameters can be configured separately	
Temperature Abnormal Alarm	Above the maximum temperature / below the minimum temperature / between / outside	
Intelligent Function	Fire point fire alarm, trip the line, cross the line, intrusion alarm	

Application Scenarios

Oil & Gas • Refineries & Fuel Depots • Surveillance & Security • Chemie & Pharma • Oil tankers

Group II (Gas & Dust)	ATEX / IECEx / EAC-Ex					Group I (Mining)	ATEX / IECEx..	
Zone	0	1	2	21	22	Category	Ma	Mb
Application	✗	✓	✓	✓	✓	Application	✗	✗

Other application areas : desert drill sites , offshore rigs , mechanical engineering ,biogas plants , military, electric power, hydraulic power, railway, metallurgy, natural gas extraction, drilling platform, aerospace, marine, armed police, border defense ,vessels ,fireworks production ,ports etc

General Specifications

General	
Infrared Distance	50-100m
Storage Function	optional
Installation Method	Wall or column platform installation
Power	AC 100 - 240 V
Dimensions (L × W × H)	329*303*410mm
Net Weight	≤21kg
Material	Stainless Steel 316L
Working Environment	-40°C ~ 60°C , Humidity: ≤100% RH (non-condensing)
Strorage Environment	-40°C ~ 60°C , Humidity: ≤100% RH (non-condensing)
Surge Protection	2KV
Ingress Protection	IP68
Inlet Hole Specification	1 Entry hole G3/4"
PTZ	
Rotation Angel	Horizontal: 0°-360° Vertical: -90°-+90°
Approval	
Protection	IK08 (IEC 62262:2002), IP68 (IEC 60529-2013)
Explosion-Proof Protection	ATEX: II 2G Ex db IIC T6 Gb/ II 2D Ex tb IIIC T80°C Db IP68 IECEx: Ex db IIC T6 Gb /Ex tb IIIC T80°C Db IP68.For explosive gas atmospheres, the maximum surface temperature is 85°C; For flammable dust atmospheres, the maximum surface temperature is 80°C; IIC: for explosive gas atmospheres other than mines susceptible to firedamp;For explosive gas mixture atmospheres: Zone 1, Zone 2, Zone 21, Zone 22.

Accessories

Bracket   Ex-Proof Hose   Ex-Proof Junction Box

DIMENSIONS

303.00

410

328.5