KDY-EX -PTZ4037IRW02

4MP 37X Explosion-proof Anti-Corrosion IR PTZ 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

Material

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

Explosion-proof design

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

Ingress Protection

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

Key Features

4MP | Ultra H.265 | WDR | IP68 | IK10

Smart Intrusion Prevention | smart wiper | INFRA

- 1T intelligent computing powe， Supports deep algorithm learning to improve the performance of intelligent event algorithms.
- Resolution up to 4MP （2688×1520） ,Output Full HD :2688×1520@30fps Live Image.
- Support H.265/H.264/MJPEG Video Compression Algorithm ,Multi-level Video Quality Configuration and Encoding Complexity Settings.
- Starlight Low Illumination， 0.0005Lux/F1.5(color),0.0001Lux/F1.5(B/W) ,0 Lux with IR.
- 37X Optical Zoom， 16X Digital Zoom ; ICR automatic switching, 24 hours day and night monitoring.
- Supports optical fog transmission, which greatly improves the foggy image effect.
- Support 3-stream Technology, each stream can be independently configured with resolution and frame rate.
- Support Backlight Compensation, Automatic Electronic Shutter ,adapt to different monitoring environment.
- Support 3D Digital Noise Reduction, High light Suppression, Electronic Image Stabilization, 120dB Optical Wide Dynamic.
- Support 255 Preset,8 patrols ; Support Timed Capture and Event Capture ; Support One-click watch and One-click cruise functions ; Support
  1 audio input and 1 audio output ; Support Micro SD / SDHC / SDXC card storage up to 256G ; ONVIF.
- Built-in 1 alarm input and 1 alarm output, support alarm linkage function ; Rich interfaces for convenient function expansion.
- Small size and low power consumption, easy to access PTZ.
- Intelligent wiper function, the wiper adopts automobile wiperblade, which has good weather resistance and easy replacement.
- 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 .

Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Minimum Illumination	Color :0.0005 Lux @(F1.5,AGC ON) ;B/W:0.0001Lux @(F1.5,AGC ON)
Shutter	1/25s to 1/100,000s; Supports delayed shutter
Auto iris	DC
Day/Night Switch	IR cut fi lter
Digital Zoom	16X

Lens	
Focal Length	6.5-240mm, 37X Optical Zoom
Aperture Range	F1.5-F4.8
Horizontal Field of View	70.0-2.51° (wide-tele)
Minimum Working Distance	100mm-1500mm (wide-tele)
Zoom Speed	Approximately 3.5s(opt ical lens, wide to tele)

Compression Standard	
Video Compression	H.265 / H.264 / MJPEG
H.265 Type	Main Profile
H.264 Type	BaseLine Profile / Main Profile / High Profile
Video Bitrate	32 Kbps~16Mbps
Audio Compression	G.711a/G.711u/G.722.1/G.726/MP2L2/AAC/PCM
Audio Bitrate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/16-6 4Kbps(AAC)

Image (Maximum Resolution : 2688*1520)	
Main Stream	50Hz : 25fps (2688*1520, 1920 × 1080, 1280 × 960, 1280 × 720) ; 60Hz : 30fps (2688*1520, 1920 × 1080, 1280 × 960, 1280 × 720)
Third Stream	50Hz : 25fps (1920 ×1080) ; 60Hz : 30fps (1920 ×1080)
Image Settings	Corridormode, saturation, brightness, contrast, sharpness adjusted by IE/ Client
BLC	Support
Exposure Mode	AE / Aperture Priority / Shutter Priority / Manual Exposure
Focus Mode	Auto Focus / One Focus / Manual Focus / Semi-Auto Focus
Area Exposure / Focus	Support
Optical Fog	Support
Image Stabilization	Support
Day/Night Switch	Automatic, manual, timing, alarm trigger
3D Noise Reduct ion	Support
Picture Overlay Switch	Support BMP 24-bit image overlay, customizable area
Region of Interest	ROI supports three streams and four fixed areas

NetWork	
Storage Function	Support Micro SD / SDHC / SDXC card (256G) d isconnected local storage, NAS (NFS, SMB / CIFS support)
Protocols	TCP/IP, ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP, IPv6
Interface Protocol	ONVIF(PROFILES,PROFILE G)

Smart Features	
Intelligent Computing Power	1T
Smart Detection	Cross-border detection, area intrusion detection, leaving area detection, hovering detect ion, personnel gathering detection, fast motion detection

Interface	
External Interface	36pin FFC (Network port、RS485、RS232、CVBS、SDHC、Alarm In/Out、Line In/Out、power)

Specification

General	
Power	AC 100-240 V
Dimensions (L × W × H)	329*303*410mm
Net Weight	≤21kg
Material	Stainless Steel 316L
Working Environment / Strorage Environment	-40°C ~ 60°C , Humidity: ≤100% RH (non-condensing)
Surge Protection	2KV
Ingress Protection	IP68
Infrared Distance	50-100m
Storage Function	optional
Inlet Hole Specification	1 Entry hole G3/4"
Installation Method	Wall or column platform installation
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. |

Application Scenarios

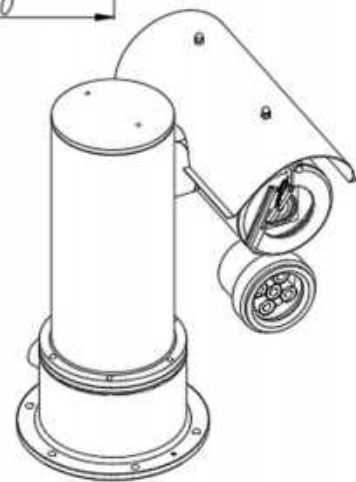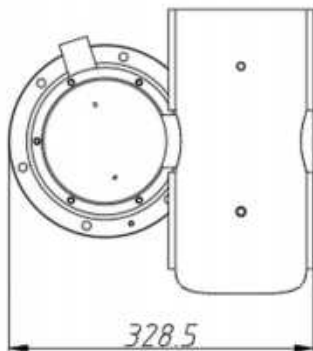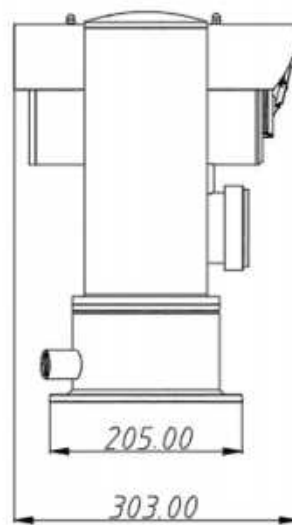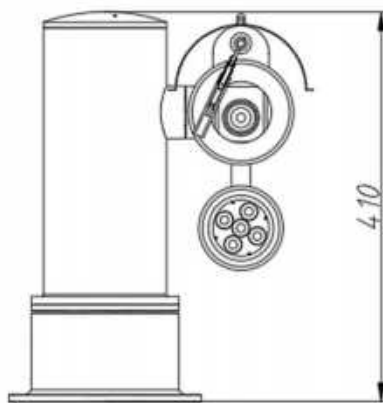Oil & Gas • Refineries & Fuel Depots • Surveillance & Security • Chemie & Pharma • Oil tankers

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

Group II (Gas & Dust)	ATEX / IECEx / EAC-Ex				
Zone	0	1	2	21	22
Application	✗	✓	✓	✓	✓

Group I (Mining)	ATEX / IECEx..	
Category	Ma	Mb
Application	✗	✗

DIMENSIONS

410

205.00

303.00

328.5

Accessories

Bracket

Ex-Proof Hose

Ex-Proof Junction Box