



4MP 33X Explosion-proof, Anti-Corrosion, IR PTZ IP 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



- Support starlight level low illumination, excellent monitoring effect under weak light conditons
- 33 x optical zoom, using a self-developed focusing algorithm, with a fast and accurate focus
- 120dB wide dynamic, to meet the monitoring requirements of high brightness contrast scene
- Adaptive strong light suppression, the night camera can automatically adjust the brightness of the picture according to whether there is a sports vehicle on the road
- Adaptive fog, the camera can adjust the fog level according to the severity of haze
- Built-in AI ISP algorithm, intelligent noise reduction, restore the horizon under the low light
- Support in addition to the heat wave, the hot weather image is clear and stable
- Support the image anti-shake, effectively reduce the picture jitter, make the image stable and clear
- Automatic Day and Night Conversion Function (ICR)
- Support 2688 * 1520 @ 30 fps, so that the picture presents a smooth motion image
- Three-code flow package ability to meet the real-time flow and storage flow requirements of different bandwidth and frame rates
- Customized OSD provides custom effects for multiple content styles (size, color, background, style, etc.)
- Area enhancement (ROI) function to improve the image quality of key areas in the low-bandwidth network environment
- Network adaptive, provide effective monitoring in packet loss environment
- Support ONVIF, GB / T28181, strong compatibility
- Face detection: support face, human body detection and capture and face attribute extraction, and realize the connection between face and human body, support effect priority, speed priority, cycle preferred selection of three kinds of people
- Face capture preferred mode, to meet the needs of different applications, automatically select the optimal picture in line with the strategy
- Number statistics: support human flow statistics and personnel density detection, to adapt to the needs of multiple scenarios
- Perimeter distribution: support four deployment modes, including cross-border detection, entry, leaving and invasion, which can classify and detect targets for motor vehicles, non-motor vehicles and pedestrians
- Horizontal:0°-360°/Vertical Angle:-90°-+90°/Rotation speed:Approximately 5s(opticallens, wide to tele)

SPECIFICATION

KDQ-EX-PTZ4033IRW01

Camera	
Image device	1/2.7"inch line by line scan 4MP CMOS image sensor
Optical double	33X
Focal distance	Electric and dynamic zoom,4.5~148.5m m
Iris diaphragm	F1.65 (W)~F4.7(T)
Field of View (H)	51.4° ~ 2.5°
Field of View (V)	30.3° ~ 1.4°
Field of View (D)	63.2° ~ 3.0°
Shutter	Automatic /manual,1~1/100000s
Through the fog	Adaptive fog
Noise-signal ratio	>56dB
Wide Dynamic	120dB
Minimal Illumination	0.003lux(F 1.65,AGC ON,color),0.002lux(F1.65,AG CON,black and white)
Switch the mode day and night	Automatic,day,night,switching quantity control
3D positioning	Support
Anti-shake	Support
Detection Distance	105-3100m
Observe Distance	40-1260m
Video Frequency	
video coding	H.265、 H.264、 MJPE G
Maximum frame rate	30 Frames
Video stream	Main code stream:2688*1520,2560*1440,2304*1296,1920*1080,1280*720(720P),720*576 (D1),640*360,704*288(2 CIF),352*288(CIF);
	Auxiliary code stream:1920*1080,1280*720(720P),720*576 (D1),640*360,704*288(2 CIF),352*288(CIF);
Video code rate	Third stream:720*576 (D1),640*360,704*288(2 CIF),352*288(CIF)
	128Kbps~16Mbps
OSD	Time,cloud head coordinates,multiplier,preset bit,serial port OSD,number of people statistics,network port OSD,picture OSD,environment volume,device longitude and latitude sitting
	Standard et al
Regional Enhancement (ROI)	Eight areas
Privacy cover	Black style,Marseille,gram style:8 single scenes,24 multiple scenes
Screenshot	Regular grasp,periodic grasp,cruise preset bit grasp>manual grasp
Grasp the map at the maximum resolution	2688*1520
Audio frequency	
Audio encoding format	G.7G11U、 G.711A
Audio sampling rate	G.711U、 G.711A:8KHz /16K Hz
Memory	
Front end storage	Micro SD,up to 256GB
Intelligence	
Face detection	Support effect priority,speed priority,cycle preferred three face snap preferred mode,support face Angle filtering;
	Support human face,human body capture,support human face attribute extraction;Face attributes:gender,age,wearing glasses,wearing masks,hat style,hat color
Peripheral cloth defense	Support cross-boundary detection,regional invasion,entry area and leaving area;Support motor vehicles,non-motor vehicles,pedestrian target classification detection,capture and distribution
Number of statistics	Statistics of human flow:support the statistics of total number,number of entering and number of leaving,support the three-level alarm of the number of stranded,and clear the statistics of the number of support;Personnel density detection:to support the three-level alarm of personnel density
Autotracking	It supports the classification and tracking of motor vehicles,non-motor vehicles and pedestrian targets in the screen,and automatically returns to the original position after reaching the preset tracking time
Smart Function	
Common event	Motion detection,occlusion detection,sound detection,alarm input,and alarm output
Network	
Networking protocol	L2TP、 IPv4、 IPv6、 IGMP、 ICMP、 ARP、 TCP、 UDP、 DHCP、 RTP、 RTSP、 RTMP、 DNS、 DDN S、 NTP 、 FTP 、 UPnP、 HTTP、 SNMP、 SIP
Compatible access	ONVIF Profile G、 Profile T 、 Profile S、 GB/T28181、 GA/T 1400、 API
Cache supplement	Support SD card broken network cache supplementary record
Interface features	Description(see the Technical Definition Manual for a detailed description)
Interface form	36pinFFC(including network port,power supply,serial port UART_1,serial port UART_2, Alarm In /Out,Audio In /Out)

SPECIFICATION

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General	
Power	AC 100V-240V/POE++ optional, ≤85W (The maximum power supply distance of POE++ is 80m.)
Dimensions (L*W*H)	436*296*406mm
Net Weight	≤26kg
Material	Stainless Steel 316L
Working Environment	-40°C ~ 60°C , Humidity: ≤100% RH (non-condensing)
Storage Environment	-40°C ~ 60°C , Humidity: ≤100% RH (non-condensing)
Surge Protection	2KV
Ingress Protection	IP68
Infrared Distance	100-150m
Storage Function	optional
Inlet Hole	1 Entry hole G3/4"
Specification	
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 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.
Verification to	BS EN 62676-1-1-2014 – Video surveillance systems for use in security applications

APPLICATION SCENARIOS



Oil & Gas



Refineries & Fuel Depots



Surveillance & Security



Chemie & Pharma

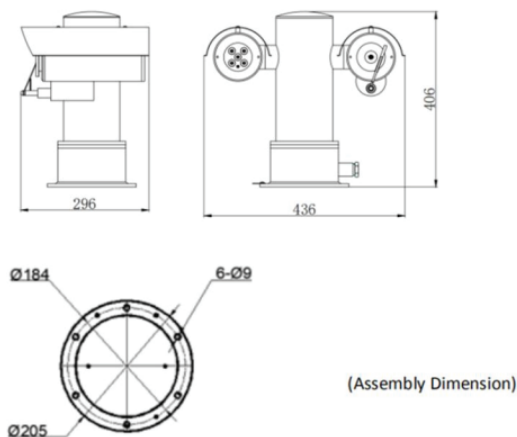


Oil tankers

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



ACCESSORIES



Bracket



Ex-Proof Hose



316L Exe type JB



Exd type JB(Optional)