



4MP 18X Explosion Proof Anti-Corrosion Starlight IP Bullet Camera with Wipe

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 conditions
- 18 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 wonderful 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
- 265Advanced H and SVC scalable video coding algorithm can have higher compression efficiency and flexible application
- 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
- Intelligent wiper function, the wiper adopts automobile wiper blade, which has good weather resistance and easy replacement

SPECIFICATION

KDH-EX-VL418(IR)W01

Camera	
Image device	1/2.9"inch line by line scan 4MP CMOS image sensor
Optical double	18x
Focal distance	Electric dynamic zoom,from 5.5 mm to 99 mm
Iris diaphragm	F1.78(W)-F 3.73(T)
Shutter	Automatic/manual,1~1/100000s
Through the fog	Adaptive fog
Noise-signal ratio	>52DB
Wide Dynamic	120DB
Minimal illumination	0.005Lux(F1.78,AGC ON,color),0.004Lux(F1.78,AGC ON,black and white)
Switch the mode day and night	Automatic,day,night,switching quantity control
3D positioning	Support
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	128Kbps~16Mbps
OSD	Time,cloud head coordinates,zoom,preset bits,serial OSD,orientation information,network,OSD,picture OSD,etc
Privacy cover	Black /Mosaic styles:up to 4 single scenes,and up to 243D rule scenes
Screenshot	Support timing grasp map,periodic grasp map,cruise preset bit grasp map
Grasp the map at the maximum resolution	1920*1080
Audio frequency	
Audio encoding format	G.7G 11U、G.711A
Audio sampling rate	G.711U、G.711A : 8KHz /16K H z
Memory	
Front end storage	Micro SD,up to 256GB
Smart Function	
Common event	Motion detection,occlusion detection,and sound detection
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 UART _1,serial UART _2,Alarm In /Out,Audio In/Out)
General	
Power	DC 12V±25%,DC24V,AC24V,POE+,AC100 -240V optional
Dimensions (L × W × H)	430*183*176mm
Net Weight	≤8kg
Material	Stainless Steel 316L
Working Environment	-40℃ ~ 60℃ , Humidity: ≤100% RH (non-condensing)
Storage Environment	-40℃ ~ 60℃ , Humidity: ≤100% RH (non-condensing)
Surge Protection	2KV
Ingress Protection	IP68
Inlet Hole	2 Entry hole G3/4"
Specification	
Installation Method	Wall or column platform installation
Approval	
Protection	IK08 (IEC 62262:2002), IP68 (IEC 60529-2013)
Explosion-Proof Protection	ATEX: II 2G Ex tb IIC T6 Gb/ II 2D Ex tb IIIC T80℃ Db IP68
	For explosive gas atmospheres, the maximum surface temperature is 85℃; For flammable dust atmospheres, the maximum surface temperature is 80℃; 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



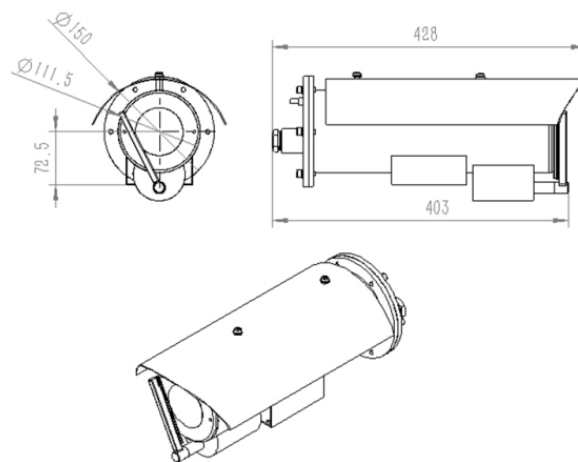
Oil tankers

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



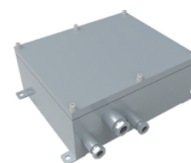
ACCESSORIES



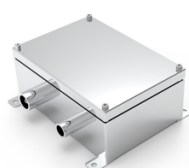
Bracket



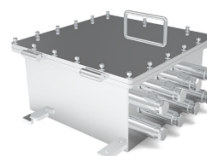
Ex-Proof Hose



316L Exe type JB



316L Exe type POE JB(optional)



Exd type JB (Optional)