KDH-EX-VL433IRW01

4MP 33X Explosion Proof Anti-Corrosion Fixed IR Camera with wiper

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

4MP	Ultra H.265	WDR	IP68	IK10

Smart Intrusion Prevention	smart wiper	INFRA

- Resolution :up to 4MP （2560*1440）,Output Full HD :2560*1440@30fps Live Image.
- Support H.265/H.264/MJPEG Video Compression Algorithm ,Multi-level Video Quality Configuration and Encoding Complexity Settings.
- 1T intelligent computing powe, Supports deep algorithm learning to improve the performance of intelligent event algorithms
- Starlight Low Illumination, 0.001Lux/F1.5(color),0.0005Lux/F1.5(B/W) ,0 Lux with IR
- 33X Optical Zoom, 16X Digital Zoom
- Support 3-stream Technology, each stream can be independently configured with resolution and frame rate
- ICR automatic switching, 24 hours day and night monitoring
- 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 Micro SD / SDHC / SDXC card storage up to 256G ; ONVIF.
- 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.
- Intelligent wiper function, the wiper adopts automobile wiper blade, which has good weather resistance and easy replacement.

REV 1.02.07.24

Specification

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Minimum Illumination	Color:0.001 Lux @(F1.5,AGC ON);B/W:0.0005Lux @(F1.5,AGC ON)
Shutter	1/25s to 1/100,000s；Supports delayed shutter
Autoiris	DC
Day/Night Switch	IR cut filter
Digital Zoom	16X

Lens	
Focal Length	5.5-180mm，33X Optical Zoom
Aperture Range	F1.5-F4.0
Horizontal Field of View	60.5-2.3°（wide-tele）
Minimum Working Distance	100mm-1000mm (wide-tele)
Zoom Speed	Approximately 3.5s(optical 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)/16-64Kbps(AAC)

Image （Maximum Resolution：2560*1440）	
Main Stream	50Hz: 25fps (2560*1440， 1920 × 1080, 1280 × 960, 1280 × 720); 60Hz: 30fps (2560*1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Third Stream	50Hz: 25fps (2560*1440); 60Hz: 30fps (2560*1440)
Image Settings	Corridor mode, 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 Reduction	Support
Picture Overlay Switch	Support BMP 24-bit image overlay, customizable area
Region of Interest	ROI supports three streams and four fixed areas

NetWork	
Supports BMP 24-bit Image Overlay, Customizable Area	Support Micro SD / SDHC / SDXC card (256G) disconnected 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(PROFILE S,PROFILE G)

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

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

Specification

General	
Power	DC 12V±25%
	AC100V -240V optional
Dimensions (L × W × H)	430× 183× 263mm
Net Weight	≤8kg
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
Infrared Distance	50-100m
Inlet Hole Specification	1 Entry hole G3/4"
Installation Method	Wall or column platform installation

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

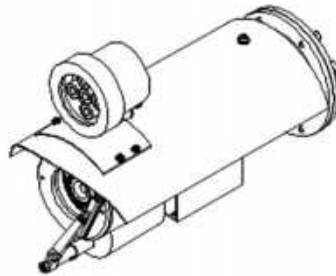Oil & Gas | Refineries & Fuel Depots | Surveillance & Security | Chemie & Pharma | Oil tankers
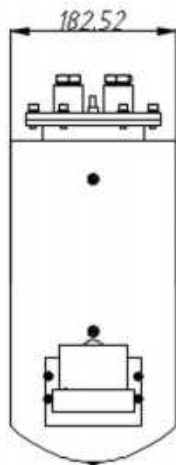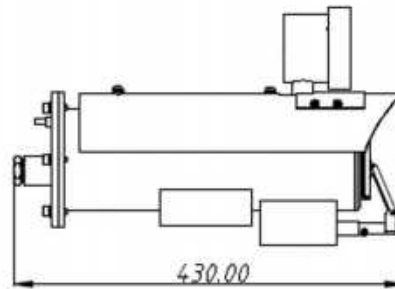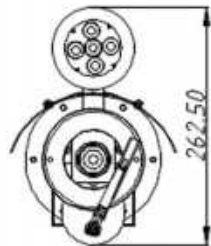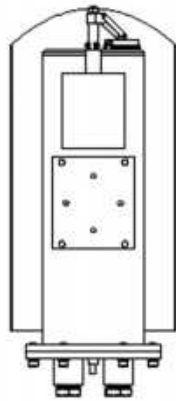
Other application areas : desert drill sites , offshore rigs , mechanical engineering ,biogas plants , military, electric power, hydraulic power, railway, metallurgy, natural gas extraction, drilling platform, aerospace, marine, armed police, border defense ,vessels ,fireworks production ,ports etc

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

262.50

430.00

182.52

Accessories

Bracket

Ex-Proof Hose

Ex-Proof Junction Box