

Explosion Proof &Anti-Corrosion Camera system for hazardous area and harsh environments conditions ,they are made of Stainless Steel material and suitable for a variety of applications both on shore and offshore in oil&gas ,Marine ,Wind ,Chemical and many other industries where quality and durability are a pre-requi-site .

Product Brochure



ISO 9001 2015 Certified Company

REV 1.29.09.22





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About US

Seatronx is an ISO 9001 2015 Certified U.S. manufacturer and distributor of rugged electronics catering specifically to the Military, Maritime and Industrial markets. Our focus is on superior rugged electronics with unprecedented quality and performance for the toughest environments using proven and tested technology. Services include manufacturing and distribution of commercial off the shelf and custom displays, panel pc's, computers and CCTV camera systems.

At Seatronx we make your ideas a reality and we are proud to have earned the reputation of consistently delivering unique electronic integration solutions that consistently meet or exceed industry standards.

Our Vision is Your Vision!

It is notably our people that truly make the difference. Our team is made up of dedicated industry professionals with decades of experience and successes that individually and collectively provide innovative solutions to large and small companies around the world. This is what has defined us and has paved the path to our motto, Your Vision is Our Vision.

We indeed take great pride at forging long term relationships by understanding your specific needs and requirements from concept through completion. We enjoy the varied and customized applications we are presented with, and will work diligently to ensure that you receive a world class solution.



Off-Shore & Onshore Onling Rigs



Petrochemical Plants Oil & other Refineries Fertilizer Plants Sewer Plants & Piping ButanelLNG Fueling & Bulk Plants



Power Plants & Coal Plants: Chemical & Pharmaceutical Plants Plant & Vernish Manufacturing Plants. Grain Stice & Processing (any industry with dangerous dust)



Buildeships LNG Tankers Container Vessels Various types of manne vessels



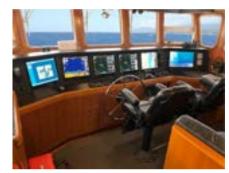
August MRT Industrial Dooks Naval Bases Defense & Aeruspace Installations



Truck Tanker
Tanker Depots
LNG Terminals
Amenunition Depots and Plants

Industries Served

Superior Rugged Electronics Designed Specifically for Key Industries







MARINE

MILITARY

INDUSTRIAL



AIR TRAFFIC CONTROL



MEDICAL



VEHICLE



ISO 9001:2015 Certified

Seatronx has been awarded ISO 9001:2015 certification, an internationally recognized standard that ensures that our products and services meet the needs of our clients through an effective quality management system.

Our commitment to achieve ISO 9001:2015 accreditation demonstrates our commitment to providing high-quality and consistent products and services to our clients and our ongoing investment in technology and development.

Soluitons

We provide many solutions for our clients such as Marine Vessle Camera Systems, Drilling Rig Camera Systems, Oil & Gas Camera Systems, etc.



2MP Explosion Proof Anti-Corroison WDR Fixed IR Camera KDM-EX-FL204IR01 (T)



KEY FEATURES

•Default:Stainless Steel 316L Material •Up to 1920x1080@30fps \$+265/H.265/H.264 •Min. illumination Color: 0.02Lux@F2.0 •Smart IR, IR Range: 40m

Support tripwire and perimeter Operating Conditions -40°C~60°C, 0~95% RH •POE, IP68

·Ex Mark: Ex d IIC T6 Gb /Ex tD A21 IP68 T80

Application Environments:

This is a miniaturized, infrared integrated, and intelligent Ex-Proof Anti-corrosion monitoring equipment. It can be widely used in petroleum, chemical industry, oil depots, ships, Vessels , Marine, drilling platforms, gas stations, gas stations, ports, mines, aerospace, Military industry, steel, pharmaceutical, fireworks production, food processing and other places.

It has a built-in infrared lighting chip, which automatically turns on the infrared light at night or when the visible light is insufficient. It adopts a window design with the camera to completely eliminate the infrared light halo and can monitor dangerous places all-weather. The window is special tempered flat glass, the light transmittance is higher than 95%, while being sturdy and durable, it ensures the clear image. Optional low-temperature automatic heating function, automatic heating components can ensure that the equipment can work stably for a long time under the temperature condition of -30°C to +60°C to prevent condensation. The protection grade reaches IP68, the stainless steel Sunshield is adopted, the structure is firm and fully sealed, which represents the current high standard of environmental protection. Also widely used for marine safe environment.



SPECIFICATIONS

Camera	
Image Sensor	1/2.8" CMOS
Signal System	PAL/NTSC
Min. Illumination	Color: 0.02Lux@ (F2.0, AGC ON), B/W: 0Lux with IR
Shutter Time	1s to 1/100,000s
Day & Night	Dual IR Cut Filter with Auto Switch
Wide Dynamic Range	Digital WDR
Angle Adjustment	Flexible
Lens	
Lens Type	Fixed
Focus	2.8mm/4mm
Lens Mount	M12
Aperture	F2.0, Fixed
FOV	Horizontal field of view: 99.7° (2.8mm)/83.3°(4mm)
Illuminator	
IR LEDs	2
IR Range	Up to 40 m
Wavelength	850nm
White LEDs/Warmlights	N/A
Compression Standard	
Video Compression	S+265/H.265/H.264
Video Bit Rate	32 Kbps~6 Mbps
Audio Compression	N/A
Audio Bit Rate	N/A
Image	
Max. Resolution	1920×1080
Main Stream	PAL: 25fps (1920×1080, 1280×720, 704×576, 640×480)
Maiii Sueaiii	NTSC: 30fps (1920×1080,1280×720, 704×480, 640×480)
Sub Stream	PAL: 25fps (704×576, 704×288, 640×360, 352×288)
Sub Stream	NTSC: 30fps (704×480, 704×240, 640×360, 352×240)
Third Stream	N/A
Image Setting	Saturation, brightness, contrast, sharpness, adjustable by client software or web browser
Image Enhancement	BLC/3D DNR/HLC
ROI	N/A
OSD	16×16, 32×32, 48×48, adaptable size, Letters Such as Week, Date, Time, Total 3 Regions
Picture Overlay	N/A
Privacy Mask	Yes, 4 regions
Smart Defog	Yes
Feature	
Alarm Trigger	Motion Detection, Mask Alarm, IP Address Conflict
Video Analytics	Tripwire, Perimeter



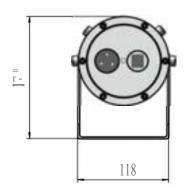
Network	
ANR	Yes(Only Support Tiandy ANR NVR)
Protocols	TCP/IP, HTTP, FTP, DHCP, DNS, DDNS, IPV4, NTP, UDP, Telnet, ICMP, RTP, RTSP, UPnP
System Compatibility	ONVIF (PROFILE S/T/G), SDK, P2P(Mutually exclusive with Profile G)
Remote Connection	≤7
Client	Easy7, EasyLive
Web Version	Web5
Interface	
Communication Interface	1 RJ45 10M/ 100M self adaptive Ethernet port
Audio I/O	N/A
Alarm I/O	N/A
Reset Button	Yes
On-board storage	N/A
General	
Firmware Version	_
Web Client Language	15 languages English, Russian, Spanish, Korean, Italian, Turkish, Simple Chinese, Traditional Chinese, Thai, French, Polish, Dutch, Hebraism, Arabic, Vietnamese
Operating Conditions	-40°C ~ 65°C, 0 ~ 95% RH
Power Supply	DC 12V±25%, PoE (802.3af)
Power Consumption	MAX: 6W(12V) MAX: 7W(POE)
Protection	IP68, Lightning protection, surge protection and voltage transient protection meets EN 55035:2017
Heater	N/A
Dimensions	100*118*170mm ×
Weight	3KG

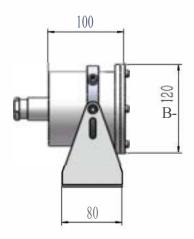
^{*} Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

AVAILABLE MODELS

KDM-EX-FL204IR01(Tiandy) KDM-EX-FL228IR01(Tiandy)









Accessories







Ex-Proof Hose



Explosion Proof Anti-Corroison Junction box

KDM-EX-FL436IR01 (D)

4MP Explosion Proof Anti-Corroison Fixed WDR Camera



- · Ex mark : Ex d IIC T6 Gb /Ex tD A21 IP68 T80 ℃ for hazardous zones
- · 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP (2688 × 1520) @ 20 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- · 256 GB Micro SD card, built-in Mic (optional)
- · 12V DC/PoE power support













System Overview

With upgraded H.265 encoding technology, This series camera has efficie nt video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying to the standards of IP68.

Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

Adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, camera supports intelligent detection, such as tripwire and intrusion and so on.

Protection (IP68, wide voltage)

IP68: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 2 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Application Environment

With A. II B. II C class II combustible gas, the ignition temperature group is zone 1, zone 2 of the T1-T6 group, and the place where the combustible gas or the explosive mixture formed by vapor and air is also suitable for the ignition temperature group is zone 20, zone 21, zone 22 of the T1-T6 group, and the place containing the combustible dust mixture. Such as: petroleum, chemical industry, mine, military industry, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain processing and storage. Also widey used for offshore marine environment.



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Technical Specification			2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 ×				
Camera			Resolution	1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704			
Image Sensor		1/3" 4Megapixel progressive CMOS			× 576/704 × 480); VGA (640 ×480); CIF (352 × 288/352 × 240)		
Effective Pixel	s	2688 (H) × 1520 (V)		Bit Rate Control	CBR/VBR		
ROM		128 MB				Video Bit Rate	H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144 Kbps
RAM		128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning Syste	em	Progressive				BLC	Yes
Electronic Shu	tter Speed	Auto/Manua	al 1/3 s–1/1000	000 s		HLC	Yes
Min. Illuminati	ion	0.008 Lux @	F1.6			WDR	120 dB
IR Distance		30 m (98.43	ft)			White Balance	Auto/natural/street lamp/outdoor/manual/regional
IR On/Off Con	trol	Auto/Manua	al				custom
IR LEDs Numbe	er	2				Gain Control	Auto/Manual
Pan/Tilt/Rotat	ion Range	Pan: 0°-360 Tilt: 0°-78°	0			Noise Reduction	3D DNR
,,	8-	Rotation: 0°-	-360°			Motion Detection	OFF/ON (4 areas, rectangular)
Lens						Region of Interest(RoI)	Yes (4 areas)
Lens Type		Fixed-focal				Smart IR	Yes
Mount Type		M12 2.8 mm				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
Focal Length		3.6 mm		Mirror	Yes		
Max. Aperture	2	F1.6 F1.6		Privacy Masking	4 areas		
2.8 mm: Pan: 102.0°		Audio					
Field of View Dia		Tilt: 55.0° Diagonal: 12	1.0°			Built-in MIC	N/A
ricia di view		3.6 mm : Pan: 84.0° Tilt: 45.0°				Audio Compression	N/A
		Diagonal: 10	0.0°			Network	
Iris Type		Fixed apertu	ire			Network	RJ-45 (10/100 Base-T)
Close Focus Di	stance	2.8 mm: 0.9 3.6 mm: 1.6					IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS;
DORI	Lens	Detect 56 m	Observe 22.4 m	Recognize	Identify 5.6 m	Protocol	Qos; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Distance	2.8 mm 3.6 mm	(183.73 ft) 80 m	(73.49 ft) 32.0 m	(36.75 ft) 16.0 m	(18.37 ft) 8.0 m	Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Smart ever		(262.47 ft)	(104.99 ft)	(52.49 ft)	(26.25 ft)	User/Host	20
General IVS Ar		Tripwire; int	rusion			Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video							IE
Video Compression H.265; H.264; H.264B; MJPEG		Browser	Chrome Firefox				
Smart Codec Yes				Management Software	Smart PSS; DSS; DMSS		
Main stream:		Mobile Phone	IOS; Android				
2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps)		Certification					
Video Frame Rate Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)		Certifications	ATEX CE-LVD: EN60950-1 CE-EMC FCC: 47 CFR FCC Part 15, Subpart B				
Stream Capability 2 streams					UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07		



Power 12V DC/PoE (802.3af) Power Supply Power Consumption < 6.6W Environment Operating Conditions -40°C to +60°C (-40°F to +140°F)/less than \leq 95% RH -40°C to +60°C (-40°F to +140°F) Storage Temperature Protection IP68 Structure SS316L/SS304 Casing Diameter100*118*170mm Dimensions Net Weight 2..8KG 3Kg Gross Weight

Optional Accessories





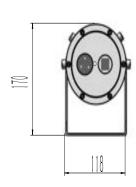


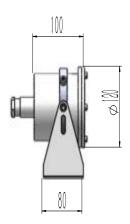
Explosion Proof Junction box



Stainless Bracket

Dimension:









2MP Explosion Proof Anti-Corrosion Fixed IR Camera KDM-EX-FL204IR01 (H)















Basic Features:

- 1/2.8" Progressive Scan CMOS
- 1920 × 1080@30fps
- 2.8/4/6 mm fixed lens
- Color: 0.01 Lux @ (F1.2, AGC ON), 0.028 Lux @ (F2.0, AGC ON), 0 Lux with IR
- H.265, H.265+, H.264, H.264+
- Three streams
- 120dB WDR

- BLC/3D DNR/ROI/HLC
- IP68
- DC12V/PoE power optional
- Ex-Proof ,Anti-Corrosion ,Weatherproof ,Suitable for all kinds of extreme environment.
- Made of Stainless Steel 316 Material for marine zones.
- Ex Mark :Ex mark : Ex d IIC T6 Gb /Ex tD A21 IP67/68 T80 °C

Application Environments:

This is a miniaturized, infrared integrated, and intelligent Ex-Proof Anti-corrosion monitoring equipment. It can be widely used in petroleum, chemical industry, oil depots, ships, Vessels , Marine, drilling platforms, gas stations, gas stations, ports, mines, aerospace, Military industry, steel, pharmaceutical, fireworks production, food processing and other places. It has a built-in infrared lighting chip, which automatically turns on the infrared light at night or when the visible light is insufficient. It adopts a window design with the camera to completely eliminate the infrared light halo and can monitor dangerous places all-weather. The window is made of special tempered flat glass, the light transmittance is higher than 95%, while being sturdy and durable, it ensures the clear image. Optional low-temperature automatic heating function, automatic heating components can ensure that the equipment can work stably for a long time under the temperature condition of -30°C to prevent condensation. The protection grade reaches IP68, the stainless steel Sunshield is adopted, the structure is firm and fully sealed, which represents the current high standard of environmental protection. Also widely used for marine safe environment.



Specifications

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), 0.028 Lux @ (F2.0, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter.
Digital Noise Reduction	3D DNR
WDR	120 dB
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Focal length	2.8/4/6/8 mm
Aperture	F2.0
Focus	Fixed
	2.8 mm, horizontal FOV: 103°, vertical FOV: 59°, diagonal FOV: 118°
FOV	4 mm, horizontal FOV: 86°, vertical FOV: 46°, diagonal FOV: 102°
	6 mm, horizontal FOV: 54°, vertical FOV: 30°, diagonal FOV: 62°
Lens Mount	M12
IR	
IR Range	Up to 30 m
Wavelength	850 nm
Compression Standard	
	Main stream: H.265/H.264
Video Compression	Sub-stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264/MJPEG
H.264 Type	Main Profile/High Profile
H.264+	Main stream supports
H.265 Type	Main Profile
H.265+	Main stream supports
Video Bit Rate	256 Kbps to 16 Mbps
Smart Feature-Set	
	Line crossing detection, up to 1 line configurable
	Intrusion detection, up to 1 region configurable
Smart Event	Unattended baggage detection, up to 1 region configurable
	Object removal detection, up to 1 region configurable
	Face detection: detects faces
	Scene change detection
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP
	address conflict, illegal login, HDD full, HDD error)
Face Detection	Yes



	Trigger recording: memory card, network storage, pre-record and post-record
Linkage Method	Trigger captured pictures uploading: FTP, HTTP, NAS, Email
	Trigger notification: HTTP, ISAPI, Email
Region of Interest	5 fixed region for main stream and sub-stream
Image	
Max. Resolution	1920 × 1080
NA-in Characa	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720)
Main Stream	60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub stroom	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240)
Sub-stream	60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 640 × 360, 352 × 288)
Tillia Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 640 × 360, 352 × 240)
Image Enhancement	BLC/3D DNR/HLC
Image Settings	Rotate mode , saturation, brightness, contrast, sharpness, AGC, and white balance are
illiage settings	adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule
Network	
Native de Characa	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS),
Network Storage	ANR
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE,
Protocols	NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
General Function	Anti-flicker, three streams , heartbeat, mirror, privacy masks, password reset via e-
General Function	mail, pixel counter, HTTP listening
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
	Password protection, complicated password, HTTPS encryption, 802.1X authentication
Security	(EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest
	authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users, 3 levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, Hik-Central
	Plug-in required live view: IE8+
Web Browser	Plug-in free live view: Chr2ome 57.0+, Firefox 52.0+, Safari 11+
	Local Service: Chrome 41.0+, Firefox 30.0+
Interface	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board storage	Optional
Reset Button	Yes
General	
Operating Conditions	-30 °C to +60 °C , humidity 95% or less (non-condensing)



Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power Supply	12 VDC ± 25%, PoE (802.3af, class 3)
Power Consumption and Current	12 VDC, 0.5A, max. 6W; PoE (802.3af, 36V to 57V), 0.2A to 0.1A, max. 7.5W
Protection Level	IP68
Material	Stainless Steel 316 or 304
Dimensions	Φ 118 × 100 mm
Weight	Camera: Approx. 2.8kg With Package: 3kg

Available Model

KDM-EX-HKIPFL2040IR01 ,KDM-EX-HKIPFL2060IR01

Dimension







Accessory







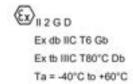
Ex-Proof Hose



Stainless Bracket

2MP Explosion Proof Anti-Corroison IR Fixed WDR Network Camera KDM-EX-FL204IR02(U)





Key Features











Crivin









Smart

Perimeter Protection, include Cross Line, Intrusion, Enter Area, Leave Area detection

Based on target classification, smart intrusion prevention significantly reduce false alarm caused by leaves, birds and lights etc., accurately focus on human and vehicle.

Optics

Day/night functionality

Smart IR, up to 3 0m IR distance

Optical glass window with higher light transmittance

IR anti-reflection window to increase the infrared transmittance

2D/3D DNR (Digital Noise Reduction)

SD Card

Compression

Ultra 265, H.265, H.264, MJPEG

ROI (Region of Interest)



Network

ONVIF Conformance

Structure

Wide temperature range: -30°C $^{\sim}$ 60°C

Wide voltage range of ±25%

IP68

Made of SS304 or SS316L material ,Used for potentially explosive atmosphere and corrosive ereas.Also widely used for marine environment.

Specifications

nsor 1/2.8", 2.0 megapixel, progressive scan, CMOS							
2.8mm@F1.6				4.0mm@F1	L. 6		
Lens (mm)	Detect (m)	Ob	serve (m	າ)	Recogn	nize (m)	Identify (m)
2.8	43.4	17.	4	8.7		4.3	
4.0	62.1	24.	8	12.4			6.2
106.7°				87.5°			
57.1°				46.3°			
115.7°				92.4°			
Pan: 0° ~ 360°		Tilt: 0° ~ 90	•			Rotate: 0° ~	360°
Auto/Manual, 1 ~ 1/1000	00s						
Colour: 0.001Lux (F1.6, AGC ON) OLux with IR on							
2D/3D DNR							
IR-cut filter with auto switch (ICR)							
>52dB							
Up to 40m (131 ft) IR range							
850nm							
Auto/Manual							
Digital Defog							
120dB							
Ultra 265, H.265, H.264, MJPEG							
Baseline profile, Main Profile, High Profile							
Main Stream: 2MP (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps; 2CIF(704*288), Max 30fps; CIF(352*288), Max 30fps; Third Stream: D1 (720*576), Max 30fps; 640*360,Max 30fps; 2CIF(704*288), Max 30fps; CIF(352*288), Max 30fps;							
	2.8mm@F1.6 Lens (mm) 2.8 4.0 106.7° 57.1° 115.7° Pan: 0° ~ 360° Auto/Manual, 1 ~ 1/1000 Colour: 0.001Lux (F1.6, A 0Lux with IR on 2D/3D DNR IR-cut filter with auto swi >52dB Up to 40m (131 ft) IR range 850nm Auto/Manual Digital Defog 120dB Ultra 265, H.265, H.264, II Baseline profile, Main Profile Main Stream: 2MP (1920 Sub Stream: 720P (1280* CIF(352*288), Max 30fps	2.8mm@F1.6 Lens (mm) Detect (m) 2.8 43.4 4.0 62.1 106.7° 57.1° 115.7° Pan: 0° ~ 360° Auto/Manual, 1 ~ 1/100000s Colour: 0.001Lux (F1.6, AGC ON) 0Lux with IR on 2D/3D DNR IR-cut filter with auto switch (ICR) >52dB Up to 40m (131 ft) IR range 850nm Auto/Manual Digital Defog 120dB Ultra 265, H.265, H.264, MJPEG Baseline profile, Main Profile, High Profile Main Stream: 2MP (1920*1080), Max 30fps; CIF(352*288), Max 30fps;	2.8mm@F1.6 Lens (mm) Detect (m) Ob 2.8 43.4 17. 4.0 62.1 24. 106.7° 57.1° 115.7° Pan: 0° ~ 360° Tilt: 0° ~ 90' Auto/Manual, 1 ~ 1/100000s Colour: 0.001Lux (F1.6, AGC ON) 0Lux with IR on 2D/3D DNR IR-cut filter with auto switch (ICR) >52dB Up to 40m (131 ft) IR range 850nm Auto/Manual Digital Defog 120dB Ultra 265, H.265, H.264, MJPEG Baseline profile, Main Profile, High Profile Main Stream: 2MP (1920*1080), Max 30fps; 720P (1280 Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576) CIF(352*288), Max 30fps;	2.8mm@F1.6 Lens (mm) Detect (m) Observe (m 2.8 43.4 17.4 4.0 62.1 24.8 106.7° 57.1° 115.7° Pan: 0° ~ 360° Tilt: 0° ~ 90° Auto/Manual, 1 ~ 1/100000s Colour: 0.001Lux (F1.6, AGC ON) 0Lux with IR on 2D/3D DNR IR-cut filter with auto switch (ICR) >52dB Up to 40m (131 ft) IR range 850nm Auto/Manual Digital Defog 120dB Ultra 265, H.265, H.264, MJPEG Baseline profile, Main Profile, High Profile Main Stream: 2MP (1920*1080), Max 30fps; 720P (1280*720), N Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30 CLF(352*288), Max 30fps;	2.8mm@F1.6 Lens (mm) Detect (m) Observe (m) 2.8 4.0 mm@F1 4.0 62.1 24.8 106.7° 87.5° 57.1° 46.3° 115.7° Pan: 0° ~ 360° Auto/Manual, 1 ~ 1/100000s Colour: 0.001Lux (F1.6, AGC ON) 0Lux with IR on 2D/3D DNR IR-cut filter with auto switch (ICR) >52dB Up to 40m (131 ft) IR range 850nm Auto/Manual Digital Defog 120dB Ultra 265, H.265, H.264, MJPEG Baseline profile, Main Profile, High Profile Main Stream: 2MP (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360 CIF(352*288), Max 30fps;	2.8mm@F1.6 Lens (mm)	2.8mm@F1.6 Lens (mm) Detect (m) Dotect (m) Doserve (m) Recognize (m) 2.8 43.4 17.4 8.7 4.0 106.7° 87.5° 57.1° 46.3° 115.7° Pan: 0° ~ 360° Auto/Manual, 1 ~ 1/100000s Colour: 0.001Lux (F1.6, AGC ON) 0Lux with IR on 2D/3D DNR IR-cut filter with auto switch (ICR) >52dB Up to 40m (131 ft) IR range 850nm Auto/Manual Digital Defog 120dB Ultra 265, H.264, MJPEG Baseline profile, Main Profile, High Profile Main Stream: 2MP (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; 640*360,Max 30fps; 2CIF(704*CIF(352*288), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps; 2CIF(704*CIF(352*288), Max 30fps;

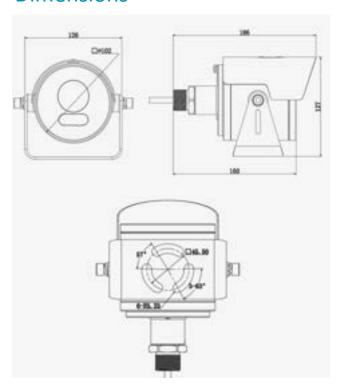


OSD	Up to 8 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Motion Detection	Up to 4 areas
Image	
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Digital noise reduction	2D/3D DNR
Smart IR	Support
Flip	Normal/Vertical/Horizontal/180°/90°Clockwise/90°Anti-clockwise
Dewarping	Supported
HLC	Supported
BLC	Supported
Audio	
Audio Compression	N/A
Suppression	N/A
Sampling Rate	N/A
Storage	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR, NAS(NFS)
Smart	
Smart intrusion Prevention (Deep Learning Algorithm)	Cross Line, Intrusion, Enter Area, Leave Area detection;
Behavior Detection	Motion detection, Tampering alarm,
Recognition	Audio detection
General Function	Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication
Network	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API
Client	EZStation EZView EZLive
Wah Provisor	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
Web Browser	Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+
Interface	
Network	1 RJ45 10M/100M Base-TX Ethernet
Built-in Mic	Supported
Certifications	
Certifications	CE: EN 60950-1 FCC: FCC Part 15 ATEx:EN60079
General	
Power	DC 12V±25%, PoE (IEEE 802.3af) Power consumption: Max 5.0W



Dimensions (L × W × H)	170×100×120 mm
Net Weight	2.5kg
Material	Stainless Steel 304 or 316L
Working Environment	-40°C ~ 60°C , Humidity: ≤95% RH (non-condensing)
Strorage Environment	-40°C ~ 60°C , Humidity: ≤95% RH (non-condensing)
Surge Protection	2KV
Ingress Protection	IP68

Dimensions



Accessories



2MP Explosion Proof Anti-Corroison WDR Fixed IR Camera KDM-EX-FL204IR02 (T)



KEY FEATURES

•Default:Stainless Steel 316L or 304 Material •Up to 1920x1080@30fps •S+265/H.265/H.264 •Min. illumination Color: 0.02Lux@F2.0 •Smart IR, IR Range: 40m

Support tripwire and perimeter Operating Conditions -40°C~60°C, 0~95% RH •POE, IP68

·Ex Mark: Ex d IIC T6 Gb /Ex tD A21 IP68 T80

Application Environments:

This is a miniaturized, infrared integrated, and intelligent Ex-Proof Anti-corrosion monitoring equipment. It can be widely used in petroleum, chemical industry, oil depots, ships, Vessels , Marine, drilling platforms, gas stations, gas stations, ports, mines, aerospace, Military industry, steel, pharmaceutical, fireworks production, food processing and other places.

It has a built-in infrared lighting chip, which automatically turns on the infrared light at night or when the visible light is insufficient. It adopts a window design with the camera to completely eliminate the infrared light halo and can monitor dangerous places all-weather. The window is special tempered flat glass, the light transmittance is higher than 95%, while being sturdy and durable, it ensures the clear image. Optional low-temperature automatic heating function, automatic heating components can ensure that the equipment can work stably for a long time under the temperature condition of -30°C to +60°C to prevent condensation. The protection grade reaches IP68, the stainless steel Sunshield is adopted, the structure is firm and fully sealed, which represents the current high standard of environmental protection. Also widely used for marine safe environment.



SPECIFICATIONS

Camera	
Image Sensor	1/2.8" CMOS
Signal System	PAL/NTSC
Min. Illumination	Color: 0.02Lux@ (F2.0, AGC ON), B/W: 0Lux with IR
Shutter Time	1s to 1/100,000s
Day & Night	Dual IR Cut Filter with Auto Switch
Wide Dynamic Range	Digital WDR
Angle Adjustment	Flexible
Lens	
Lens Type	Fixed
Focus	2.8mm/4mm
Lens Mount	M12
Aperture	F2.0, Fixed
FOV	Horizontal field of view: 99.7° (2.8mm)/83.3°(4mm)
Illuminator	
IR LEDs	2
IR Range	Up to 40 m
Wavelength	850nm
White LEDs/Warmlights	N/A
Compression Standard	
Video Compression	S+265/H.265/H.264
Video Bit Rate	32 Kbps~6 Mbps
Audio Compression	N/A
Audio Bit Rate	N/A
Image	
Max. Resolution	1920×1080
Main Stream	PAL: 25fps (1920×1080, 1280×720, 704×576, 640×480)
Maiii Sueaiii	NTSC: 30fps (1920×1080,1280×720, 704×480, 640×480)
Sub Stream	PAL: 25fps (704×576, 704×288, 640×360, 352×288)
Sub Stream	NTSC: 30fps (704×480, 704×240, 640×360, 352×240)
Third Stream	N/A
Image Setting	Saturation, brightness, contrast, sharpness, adjustable by client software or web browser
Image Enhancement	BLC/3D DNR/HLC
ROI	N/A
OSD	16×16, 32×32, 48×48, adaptable size, Letters Such as Week, Date, Time, Total 3 Regions
Picture Overlay	N/A
Privacy Mask	Yes, 4 regions
Smart Defog	Yes
Feature	
Alarm Trigger	Motion Detection, Mask Alarm, IP Address Conflict
Video Analytics	Tripwire, Perimeter



Network	
ANR	Yes(Only Support Tiandy ANR NVR)
Protocols	TCP/IP, HTTP, FTP, DHCP, DNS, DDNS, IPV4, NTP, UDP, Telnet, ICMP, RTP, RTSP, UPnP
System Compatibility	ONVIF (PROFILE S/T/G), SDK, P2P(Mutually exclusive with Profile G)
Remote Connection	≤ 7
Client	Easy7, EasyLive
Web Version	Web5
Interface	
Communication Interface	1 RJ45 10M/ 100M self adaptive Ethernet port
Audio I/O	N/A
Alarm I/O	N/A
Reset Button	Yes
On-board storage	N/A
General	
Firmware Version	-
Web Client Language	15 languages English, Russian, Spanish, Korean, Italian, Turkish, Simple Chinese, Traditional Chinese, Thai, French, Polish, Dutch, Hebraism, Arabic, Vietnamese
Operating Conditions	-40°C ~ 65°C, 0 ~ 95% RH
Power Supply	DC 12V±25%, PoE (802.3af)
Power Consumption	MAX: 6W(12V) MAX: 7W(POE)
Protection	IP68, Lightning protection, surge protection and voltage transient protection meets EN 55035:2017
Heater	N/A
Dimensions	186*126*127mm ×
Weight	3KG

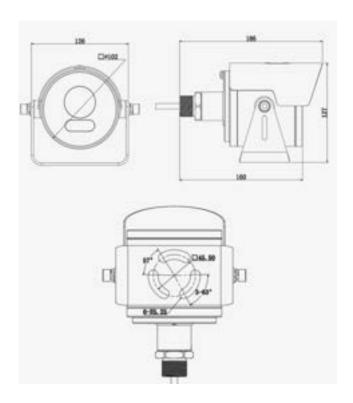
^{*} Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

AVAILABLE MODEL

KDM-EX-FL204IR02(T) KDM-EX-FL228IR02(T)



DIMENSIONS



Accessories



Explosion Proof Anti-Corrosion Fixed Super Mini Camera KDM-EX-FL204IR03 (T)



Application Environment:

Applicable to the Zone 1 and Zone 2 where the factory has iia, iib, iic grade t1~t6 group of flammable gas ,explosive mixture formed by steam and air, and Zone 20 and Zone 21 formed by mixing flammable dust and air. Explosion hazardous area in Zone 22. Such as petroleum, chemical, docks, oil depots, ships, drilling platforms, gas stations, mines, ports, aerospace, military, medicine, steel, fireworks production, machinery, food processing and storage, etc., especially suitable for tank trucks, dangerous goods transport vehicles, tankers, smallwarehouses, chemical reagent laboratories, pharmaceutical workshops, explosion-proof elevators and other places where high volume and weight are required .Also widely used for marine environment.

KEY FEATURES:

·Up to 1920x1080@30fps

·S+265/H.265/H.264

·Min. illumination Color: 0.02Lux@F2.0

·Smart IR, IR Range: 15m

·Support tripwire and perimeter

·Operating Conditions -40°~60°, 0~95% RH

·POE/DC12V, IP68

·Casing material :SS304 /SS316/Cast Aluminium

·Ex Mark :Exd ${\rm I\hspace{-.1em}I}$ CT6Gb/ExtD A21 IP68 T80 ${\rm C}$

·Certificates:ATEx CE FCC CNEx

·Explosion Proof ,Corrosion Proof ,Weather Proof , Dust Proof etc.

·Super small size ,light weight ,easy to install .



Our Vision is Your Vision

SPECIFICATIONS

Camera			
Image Sensor	1/2.9" CMOS		
Signal System	PAL/NTSC		
Min. Illumination	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR		
Shutter Time	1s to 1/100,000s		
Day & Night	Dual IR Cut Filter with Auto Switch		
Wide Dynamic Range	Digital WDR		
Lens			
Lens Type	Fixed		
Focus	2.8mm/4mm		
Lens Mount	M12		
Aperture	F2.0, Fixed		
FOV	Horizontal field of view: 97.4° (2.8mm)/82.1°(4mm)		
Illuminator			
IR LEDs	10		
IR Range	Up to 15m		
Wavelength	850nm		
White LEDs/Warmlights	N/A		
Compression Standard			
Video Compression	S+265/H.265/H.264		
Video Bit Rate	32 Kbps~6 Mbps		
Audio Compression	N/A		
Audio Bit Rate	N/A		
Image			
Max. Resolution	1920×1080		
Main Stream	PAL: 25fps (1920×1080, 1280×720, 704×576, 640×480)		
main secuni	NTSC: 30fps (1920×1080,1280×720, 704×480, 640×480)		
Sub Stream	PAL: 25fps (704×576, 704×288, 640×360, 352×288)		
Jub Jurcum	NTSC: 30fps (704×480, 704×240, 640×360, 352×240)		
Third Stream	N/A		
Image Setting	Saturation, brightness, contrast, sharpness, adjustable by client software or web browser		
Image Enhancement	BLC/3D DNR/HLC		
ROI	N/A		
OSD	16×16, 32×32, 48×48, adaptable size, Letters Such as Week, Date, Time, Total 3 Regions		
Picture Overlay	N/A		
Privacy Mask	Yes, 4 regions		
Smart Defog	Yes		
Feature			
Alarm Trigger	Motion Detection, Mask Alarm, IP Address Conflict		
Video Analytics	Tripwire, Perimeter		
Early Warning(EW)	N/A		



Network		
ANR	Yes, auto store video in SD card when NVR disconnected, and upload video to NVR when resumed connection (Only Support Tiandy ANR NVR)	
Protocols	TCP/IP, HTTP, FTP, DHCP, DNS, DDNS, MULTICAST, IPV4, NTP, UDP, Telnet	
System Compatibility	ONVIF (PROFILE S/T/G), SDK, P2P(Mutually exclusive with Profile G)	
Remote Connection	≤7	
Client	Easy7, EasyLive	
Web Version	Web5	
Interface		
Communication Interface	1 RJ45 10M/ 100M self adaptive Ethernet port	
Audio I/O	Optional	
Alarm I/O	Optional	
Reset Button	Yes	
On-board storage	Built-in Micro SD card slot, up to 512 GB	
General		
Firmware Version	ļ.	
Web Client Language	15 languages English, Russian, Spanish, Korean, Italian, Turkish, Simple Chinese, Traditional Chinese, Thai, French, Polish, Dutch, Hebraism, Arabic, Vietnamese	
Operating Conditions	-4°C ~6°C, 0~95% RH	
Power Supply	DC 12V±25%, PoE (802.3af)	
Power Consumption	MAX: 6W(12V) MAX: 7W(POE)	
Protection	IP68, Lightning protection, surge protection and voltage transient protection meets EN 55035:2017	
Heater	N/A	
Dimensions	109x96x108mm(L*W*H)	
Weight	Stainless steel: 1.5Kg Cast Aluminium: 0.8Kg	

^{*} Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

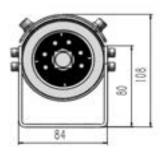
AVAILABLE MODEL

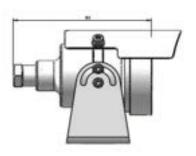
KDM-EX-FL228IR03 2.8MM

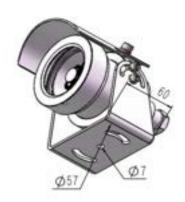
KDM-EX-FL204IR03 4MM



Dimensions













Ex-Proof Junction Box

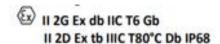


Bracket



2MP Explosion Proof Anti-Corrosion Super Mini Fixed IR Camera KDM-EX-FL204IR03 (S)





Key features

- · Small size, light weight, flexible installation ,designed for dangerous goods logistics and transportatio monitoring system;
- Ex mark: Ex d IIC T6 Gb /Ex tD A21 IP68 T80°C for hazardous zones.
- Up to 2 megapixel high resolution
- Max. 1920*1080@25/30fps(50Hz/60Hz)
- Day/Night, AWB/MWB, BLC, 3D-DNR, Shutter, IR-CUT,
 - D-WDR, Mirror, Image Flip etc. Functions
- 4mm fixed lens(2.8mmoptional)
- IR range: up to 15m
- Ingress Protection:IP68
- DC12V&POE Power Supply.
- Casing is Made of Stainless Steel 304 or 316 Material.
- -Anti-Explosion ,Anti-Corrosion ,Wheather proof suitable for Potential explosive atmosphere an corrosive environment.

Application Environment

Applicable to the Zone 0, Zone 1 and Zone 2 where the factory has iia, iib, iic grade t1~t6 group of flammable gas, explosive mixture formed by steam and air, and Zone 20 and Zone 21 formed by mixing flammable dust and air. Explosion hazardous area in Zone 22. Such as petroleum, chemical, docks, oil depots, ships, drilling platforms, gas stations, mines, ports, aerospace, military, medicine, steel, fireworks production, machinery, food processingand storage, etc., especially suitable for tank trucks, dangerous goods transport vehicles, tankers, small ware houses, chemical reagent laboratories, pharmaceutical workshops, explosion-proof elevators and otherplaces where high volume and weight are required. Also widely used for marine vessels.

Specifications

Camera	
Image Sensor:	1/2.8" 2MP Progressive Scan CMOS
Signal System:	PAL/NTSC
Min. Illumination:	Color: 0.05lux @(F1.2, AGC ON), 0 lux with IR
Shutter Time:	1/25 s to 1/100,000 s
Lens:	2.8mm Fixed Lens
Day&Night:	IR cut filter with auto switch

Image Cubencement	DLC/2D DND/D WDD	
Image Enhancement:	BLC/3D DNR/D-WDR	
Motion Detection	Support	
Privacy Protection	Support(4 Self-customized Areas)	
Water-Proof:	IP68	
Illumination for Infrared Switching:	0.5~5Lux	
Infrared Wavelength:	850nm	
Mimimum Illumination:	0 Lux(IR ON)	
IR Range:	8PCS LEDS	
in Nange.	15m	
Compression Standard		
Video Compression:	H.265/H.264/MJPEG	
Video Bit Rate:	32Kbps~12288Kbps(CBR/VBR Selectable)	
Audio Compression:	N/A	
Dual Streams:	Yes	
Triple Streams:	No	
Image		
Max. Image Resolution:	1920*1080(2MP)	
Frame Rate:	50/60Hz: Max.: 1920*1080@25fps/30fps	
	50Hz/60Hz: Max.	
Sub Stream:	(800*488/704*576/640*360/352*288)@25fps/30fps	
Third Stream(Mobile Stream):	/	
mind Stream(Mobite Stream).	3D NR, D-WDR, Image Flip, Saturation, Brightness,	
	Contrast, Sharpness	
Image Settings:	•	
	adjustable via client software, web browser or Smartphone App	
Day/Night Cyclobs	Auto(Passive Mode)/Day/Night/Auto(Active Mode)/Time	
Day/Night Switch: Network	Auto(Passive Mode)/Day/Night/Auto(Active Mode)/Time	
Network	LITTE TOD/ID ID / LIDNE DTCD LIDE CATE AITE DLICE	
Notice of Destander	HTTP, TCP/IP, IPv4, UPNP, RTSP, UDP, SMTP, NTP, DHCP,	
Network Protocols:	DNS, IP Filter, PPP0E, DDNS, IP Search(Support P6S IP	
	camera, DVR, NVS etc.)	
General Function:	Anti-Flicker, heartbeat, password protection, privacy	
	mask, Watermark	
System Compatibility:	ONVIF(2.4+ Media2)/P6S	
On-line Viewing	Max. Support 6 Users Simultaneously	
Interface		
Communication Interface:	1 RJ45 10M / 100M Ethernet Interface	
RCA Audio Interface:	RCA Audio input/output Interface (Optional)	
DC Power Plug:	DC Power Femate Interface	
General		
Operating Conditions:	-40 °C ~ 60 °C	
Operating Conditions:	Humidity 95% or less (non-condensing)	
Power Supply:	12 V DC ± 10%/PoE(Optional)	
David Canada Harri	12 VDC ± 10%, Max Power Comsumption Less than 8W	
Power Consumption:	(When the infrared lamps turn on)	
Weight:	1.5KG	
Casing	Stainless Steel 304 or 316	
Surface Treatment	Electronic polishing	
	=	



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Dimensions	109 * 9 6 * 1 0 8 mm
Certificates	ATEx CE FCC

Accessories(Optional)



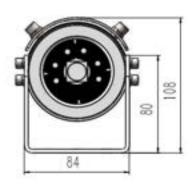


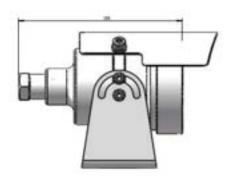


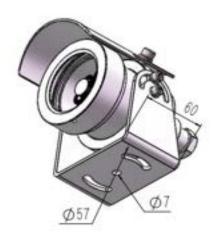
Ex-Proof junction Box

Brackets

Dimensions (mm[inch])







Explosion Proof Anti-Corrosion Fixed Mini Dome Super Wide View Camera KDM-EX-FL21704



Basic Descriptions

- ●316L stainless steel enclosure, protecting cameras to be used in corrosive environments, providing reliability and longevity compared to standard cameras
- ●IP68water resistant,preventing water ingress for outdoor use
- small size, light weight, flexible installation, can be used for Marine time ,Vessels, tankers, tankers and other places as a transport monitoring system image acquisition tools;
- equipped with the latest NVP2630+291 million high-definition image sensor, high-definition 1080P quality.
- sensitivity greatly improved, minimum illumination as low as 0.001 Lux@F1.2; color
- the latest fourth generation wide dynamic technology, the dynamic range of morethan 75 dB, the effect is very obvious;
- automatic IR CUT day and night conversion, clear and meticulous color lifelikehighquality picture, equipped with synchronous infrared lamp night image excellent;
- aviation grade high strength polycarbonate explosion-proof ball cover, the light pass rate is higher than 93%;



- non-stick water, non-stick oil, repel dust;
- high quality 316 L stainless steel precision manufacturing, explosion-proof, dustproof, waterproof; anticorrosion;
- ●316stainless steel primary color treatment, with mild corrosion resistance;
- intelligent 3 D ring design is convenient for camera installation at any angle to obtain clear horizontal image.
- clearer: more advanced bright color separation, signal filtering ,3 D noise reduction technology, higher image definition, better image restoration

High integration: front-end chip ISP and TX two-in-one, more economical and stable, lower power consumption

Open standards: third party open standards, compatible with other manufacturers'products. Zero delay: front-end data is transmitted to back-end without coding compression, full real time, high fidelity

Easy to do: Support OSD menu settings, set what you want.

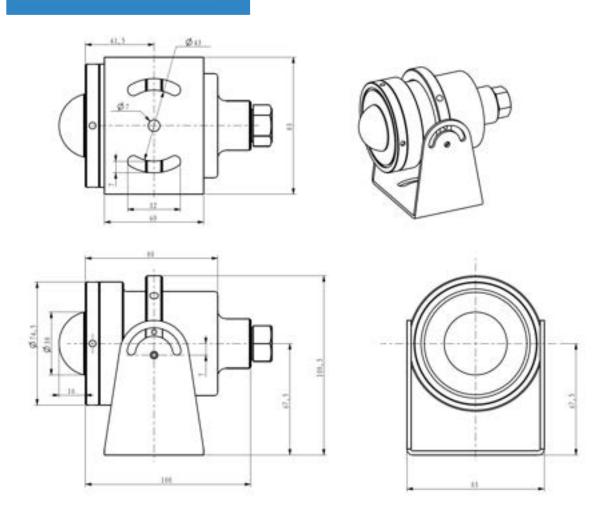
Technical Specifications

Model	
Certification	
Certificates	CE FCC ATEX
Material	316 L stainless steel
Surface treatment	Primary stainless steel, electropolishing
Protection level	IP68
Interface specifications	G-1/2"
Weight	≤1.5 kg[stainless steel]
Installation mode	Top suction mounting, wall mounting
Electrical performance	



Input voltage		DC12V ,PoE is optional
Working current		A ≤1
Camera	Imaging devices	1/2.8 IMX291
	Resolution	2 or 3million pixels [IP or HDCVI or HDTVI or AHD format]
	Camera	1.7 mm /1.1mm /2.1mm/2.5mm/2.8mm optional
	SNR	≥41 dB
	Minimum	0.01 LUX
	illumination	
	wavelength	nm 850
	Switch	Auto (≤10 Lux)
Electrical connection		Composite cable [75-3 or 75-5 video cable, power cord]
Environmer	nt	
Ambient temperature		(-30°C, +60°C)
Atmospheric pressure		KPa 80-106
Relative humidity		≤ 95 RH(+25°C)

Outside Dimensions





2MP Explosion Proof Anti-Corrosion WDR HD IR Fixed Dome Network Camera KDQ-EX-FL204IR



Key Features

















- High quality image with 2MP, 1/2.7"CMOS sensor
- 2MP (1920*1080)@30/25fps; 720P (1280*720)@30/25fps
- Ultra 265, H.265, H.264, MJPEG
- 120dB true WDR technology enables clear image in strong light scene
- Support 9:16 Corridor Mode
- Smart IR, up to 30m (98ft) IR distance
- Supports 128 G Micro SD card
- IP68 ,IK10,PoE/DC12V Power .
- EX Mark:Ex IIC T6 Gb/Ex tD A21 IP68 T80 ℃
- Stainless Steel 304 or 316 Ex casing .
- Ex-Proof ,Corrosion Proof ,Weather Proof ,Dust Proof etc ,suitable for high corrosive sites as well as potential exposive atmosphere .

Application Environment:

The Ex-Proof Anti-corrosion Camera not only be designed to use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is zone 1 and zone 2 of the t1-t6 group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22 of the t1-t6 group. Such as: petroleum, chemical, military, medicine, oil depot, drilling platform, gas station, fireworks production, grain processing and storage etc. but also can be used for offshore, Ship, Vessel, Marine Safe evironment.



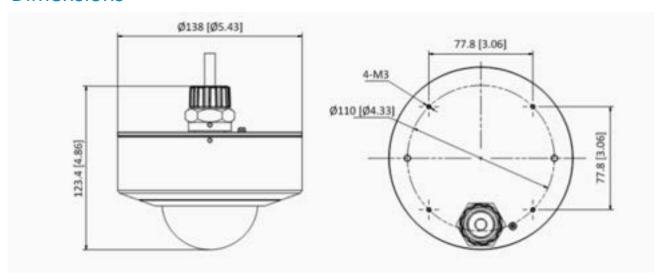
Specifications

	KDQ-EX-FL228IR			KDQ-EX-FL204IR				
Camera								
Sensor	1/2.7", 2.0 megapixel, progressive scan, CMOS							
Lens	2.8mm@F2.0				4.0mm@F2	2.0		
	Lens (mm)	Detect (m)		Observe (m	n) Recognize (m)		nize (m)	Identify (m)
DORI Distance	2.8	42	42 16		8.4			4.2
	4.0	60		24		12		6
Angle of View (H)	112.9°				91.2°			
Angle of View (V)	59.1°				47.9°			
Angle of View (O)	121.2°				95.9°			
Adjustment angle	Pan: 3° ~ 360°		Tilt: 0°	~ 68°	Rotate: 3° ~ 360°		60°	
Shutter	Auto/Manual, 1 ~ 1/100	000s						
Minimum Illumination	Colour: 0.01Lux (F2.0, A	AGC ON)						
Day/Night	IR-cut filter with auto sv	vitch (ICR)						
Digital noise reduction	2D/3D DNR							
S/N	>52dB							
IR Range	Up to 30m (98ft) IR range							
Wavelength	850nm							
IR On/Off Control	Auto/Manual							
Defog	Digital Defog							
WDR	120dB							
Video								
Video Compression	Ultra 265, H.265, H.264, MJPEG							
H.264 code profile	Baseline profile, Main profile, High profile							
Frame Rate	Main Stream: 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360, Max 30fps; 2CIF(704*288), Max 30fps; CIF(352*288), Max 30fps;							
Video Bit Rate	128 Kbps~16 Mbps	128 Kbps~16 Mbps						
OSD	Up to 4 OSDs							
Privacy Mask	Up to 4 areas							
ROI	Up to 8 areas	Up to 8 areas						
Motion Detection	Up to 4 areas							
Image								
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2							
Digital noise reduction	2D/3D DNR							
Smart IR	Supported							
Flip	Normal/Vertical/Horizontal/180°							
Dewarping	N/A							
HLC	Supported							
BLC	Supported							



Network			
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, QoS, SSL, SNMP		
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API		
EZStation			
Client	EZView		
EZLive			
Storage			
Edge Storage	Micro SD, up to 128GB		
Network Storage	ANR,NAS(NFS)		
Interface			
Network	10/100M Base-TX Ethernet		
Certifications			
Certifications of Camera	CE: EN 60950-1 UL: UL60950-1		
module and Ex casing	FCC: FCC Part 15 ATEx:EN60079		
General			
	DC 12V±25%, PoE (IEEE 802.3af)		
Power	Power consumption: Max 5.0W		
Dimensions (Ø x H)	Ф138x 123mm		
Weight	3KG		
Casing Material	Stainless Steel 304 or 316		
Working Environment	-40°C ~ 60°C , Humidity: ≤95% RH (non-condensing)		
Strorage Environment	-40°C ~ 60°C , Humidity: ≤95% RH (non-condensing)		
Surge Protection	2KV		
Ingress Protection	IP68		
Vandal Resistant	IK10		
Reset Button	N/A		

Dimensions



Accessories



Ex-Proof Hose



Wall Mounting Bracket



Ceiling Mounting Bracket



Ex-Proof Junction Box

Explosion Proof Anti-Corrosion Fixed WDR HD IR Camera with wiper KDW-EX-VL204IRW02(H)



Body Features

- Integrated intelligent design of camera, infrared lamp and wiper
- Selected high-performance imported infrared IR, visible distance up to 30 meters
- With wiper and sunshade
- Made of stainless steel 316L for marine environment.
- The window adopts sturdy tempered flat glass, which completely eliminates infrared light halo.
- Optional automatic heating components.
- Protection level reaches IP68.
- Ex Mark:Exd II CT6 Gb /Ex tD A21 IP68 T80 ℃

current high standard of environmental protection.

Certificates:CE FCC ATEx

Camera Key Features

- 2MP 1/2.8" progressive scan CMOS
- Up to 1920×1080 resolution
- 4 × optical zoom; focal length 2.8mm to 12mm
- Min. illumination: Color: 0.05Lux @(F1.6, AGC ON), B/W: 0.01Lux @(F1.6, AGC ON)
- Zoom speed: 2.6 s
- IR cut filter with auto switch
- 3D DNR, low bitrate, digital WDR

Application Environments:

This is a miniaturized, infrared integrated, and intelligent Ex-Proof Anti-corrosion monitoring equipment. It can be widely used in petroleum, chemical industry, oil depots, ships, Vessels , Marine, drilling platforms, gas stations, gas stations, ports, mines, aerospace, Military industry, steel, pharmaceutical, fireworks production, food processing and other places.

It has a built-in infrared lighting chip, which automatically turns on the infrared light at night or when the visible light is insufficient. It adopts a window design with the camera to completely eliminate the infrared light halo and can monitor dangerous places all-weather. Sunshade and wiper are randomly configured. The wiper and the protective cover are fully integrated to eliminate condensation water droplets and do not hinder the visual range of the system. The lens wiper adopts a car wiper blade, which has good weather resistance and is easy to replace; The window is made of special tempered flat glass, the light transmittance is higher than 95%, while being sturdy and durable, it ensures the clear image. Optional low-temperature automatic heating function, automatic heating components can ensure that the equipment can work stably for a long time under the temperature condition of -40 °C to +60 °C to prevent condensation. The protection grade reaches IP68, the stainless steel Sunshield is adopted, the structure is firm and fully sealed, which represents the



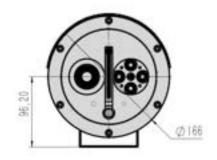
	Specifications
Camera Module	
Image Sensor	1/2.8" Progressive Scan CMOS
Video Compression	H.264, H.265
Audio Compression	G.722.1, G.711-a law, G.711-u law, MP2L2, G.726, PCM
Resolution	Main stream: 50HZ: 25fps (1920 × 1080, 1280 × 960, 1280 × 720), 60HZ: 30fps (1920×1080, 1280 × 960, 1280 × 720) Sub-stream: 50HZ: 25fps (704 × 576, 640 × 480, 352 × 288), 60HZ: 30fps (704 × 480,640 × 480,
	352 × 240) Color: 0.05Lux @ (F1.6, AGC ON)
Min. Illumination	B/W: 0.01Lux @ (F1.6, AGC ON)
S/N ratio	> 52dB
Day & Night	IR Cut Filter
Focus Mode	Auto, Semi-auto, Manual
Regional Focus	Yes
Exposure Mode Regional Exposure	Auto/Iris Priority/Shutter Priority/Manual Yes
	Auto/Color/BW/Scheduled-Switch/Triggered by Alarm Input
Day & Night Mode Shutter Time	
White Balance	1/1 s to 1/30,000 s
BLC Balance	Auto 1, Auto 2, Indoor, Outdoor, Manual, Sodium Lamp, Fluorescent Lamp Yes
Gain	Auto, Manual
3D DNR	Yes
Video Bit Rate	32Kbps to 16Mbps
Heartbeat	Yes
Digital Zoom	12 ×
Lens	
Focal Length	2.8 mm to 12 mm, 4 × optical /5-60mm,10x optical zoom)
Aperture Range	F1.6 to F2.7
Horizontal FOV	115° to 33.8° (Wide-Tele)
Min. Working Distance	100 mm to 1500mm (Wide-Tele)
Zoom Speed	Approx. 2.6 s (Optical, Wide-Tele)
Function	
Image Enhancement	WDR, HLC
Smart Encoding	Low bit rate, ROI
Exception Detection	Illegal Login
Power-off Memory	Yes
Smart Detection	Motion Detection, Video Tampering Detection, Audio Exception Detection, Line Crossing Detection, Intrusion Detection
Network	ID. A /ID. C. LITTO LITTOC 002 44, Oct. ETD CAMED LIDED DAIG DONG AUTO DTCD CTC TCC //C.
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, Bonjour
API	Open-ended, support ONVIF and ISAPI, support HIKVISION SDK and third-party management platform
Web Browser	IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Safari 11+
Simultaneous Live View	Up to 20 channels
User	Up to 32 users; 3 levels: administrator, operator, and user
Security Measures	User authentication (ID and PW); host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control
Interface	
Power Interface	DC12V ±10%
Communication Interface	10 M/100 M Ethernet interface
Audio I/O	Optional
Alarm I/O	Optional
Video Output	Yes
SDI Output	
RS-485	Yes

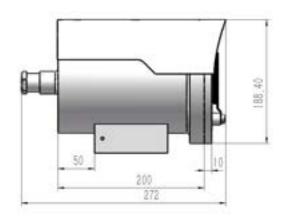
On-board Storage	Yes (no on-board MicroSD card socket)	
Interface	36pin FFC (including network interface, RS485, RS232, CVBS, SDHC, alarm in/out, line in/out, power supply)	
Communication	RS232 interface, HIKVISION protocol, RS485 interface, Pelco protocol	
General		
Operating Conditions	Temperature: -40 °C to 60 °C Humidity: <90%	
Power Consumption	DC12V (PoE power optional)	
Dimension	272*179*162MM	
Weight	6KG	

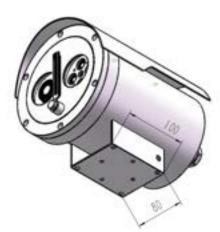
Order Model

KDW-EX-VL204IRW02

Dimensions







Optional Accessories:







Bracket

Hose

Junction Box



2MP 30X Explosion Proof Anti-Corrosion Fixed IR Camera with wiper KDH-EX-VL230IRW01



Product characteristics

- Explosion-proof design: the camera has passed international ATEX CE FCC certifications, and can be used in gas and dust hazardous scenarios
- 316L or 304 stainless steel enclosure, protecting the camera from damage caused by sparks or corrosive materials
- IP68 water resistant, preventing water ingress for outdoor use
- Under Ultra Low Illumination Starlight Monitoring
- 30x optical zoom
- 120 dB Optical width dynamics
- Support for electronic compass, automatic azimuth calibration
- H.265 SVC scalable video coding algorithm with higher compression efficiency and flexible application
- Three-stream package capability to meet real-time and storage flow requirements with different bandwidth and frame rate
- Embedded intelligent algorithm can perform a variety of behavior detection, anomaly detection, intelligent identification and statistical analysis
- Customize OSD, provide custom effects for multiple content styles (size, color, background, style, subtitle scrolling, etc)
- Support OSD image overlay
- support timing, interval, preset, event grab and upload to FTP or center



- Network adaptive, packet loss environment provides effective monitoring
- Dual iSCSI Data Block Direct Memory
- Support UNP technologies to address the NAT of public-private networks
- Support authorized user and password access, weak password detection and error login suppression, improve password security
- Support HTTPS security Web visits
- Supports RTSP access authentication to ensure that video stream requests are legitimate
- Support IP filtering, effectively block illegal IP address access
- Support gateway ARP binding to prevent gateway MAC address spoofing
- Support 802.1 X terminal access control to enhance terminal access security
- Support video watermarking to prevent data tampering
- Compact structure to meet different application requirements
- Smart wiper make the window glass keep clean.
- Infrared lamp with multi-angle fog / bright array, low thermal energy, low power consumption, infrared distance up to 100 m (optional)
- Windows with special explosion-proof glass, glass surface treated by nanotechnology, high light pass, non-stick water, non-stick oil, repel dust

Applicaiton Environment

The Camera is fully-developed and specially designed for use in flammable and explosive hazardous areas thathas iia,iib,iic flammable gas,and the ignition temperature group is zone 1and zone 2of the t1-t6group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22of the t1-t6group. Such as: petroleum, chemical, mine, military, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain processing and storage etc. Also widely used for marine safe environment.

Product specifications

Product specifications	
Camera	Description
lmaging devices	1/2.8 inch 1080P Progressive Scan CMOS image sensor
Focal length/Optical zoom	Range of focal length :4.5~135mm ,30x optical zoom
Zoom mode	Electric zoom, autofocus
aperture	Automatic/manual, aperture range: F1.6~F4.4
Shutter	Auto/manual, shutter range :1/6~1/100000 s
Wide dynamic range	120 dB
Minimum IIIin akian	0.002 lux (F1.5, AGCON, colour)
Minimum illumination	0.0002 lux (F1.5, AGCN, black and white)
Day and night switching	Automatic infrared filter switching color to black
Video	Description
Code Protocol	H.265、H.264、MJPEG
Code format	1080P (1920*1080) Maximum 30 frames/sec
Video streaming	Three-code stream
OSD	Time OSD, Custom OSD



Privacy Cover	Support
Storage	Description
Front-end storage	Support for Micro SD storage, up to 128 GB
Back-end storage	Dual iSCSI data block direct storage (with platform use)
Intelligent	Description
	Movement detection, cross-border detection, area intrusion, entry into
Behavioral testing	area, departure area, hovering detection, rapid movement, personnel gathering, illegal parking, residue detection, removal detection
Abnormal detection	Occlusion detection, abnormal sound
Intelligent Identification	Face detection
Statistical analysis	Passenger flow statistics
Network	Description
Agreement	L2TP \ IPv4 \ IGMP \ ICMP \ ARP \ TCP \ UDP \ DHCP \ PPPoE \ RTP \ RTSP \ DNS \ DDNS \
Commodibility	NTP 、FTP 、UPnP 、HTTP 、SNMP 、SIP 、802.1X etc
Compatibility	ONVIF2.4、GB/T28181(Compatible with New National Standard)
General characteristics	Description
Power	DC12V /PoE /AC85V-260V optional
Size (length x width x height)	366mmX 153mmX 2 6 2 mm
Woight	9ka

Weight 8kg

Working environment -40°C~60°C

Casing Stainless Steel 316L or 304

Ingress Protection IP68

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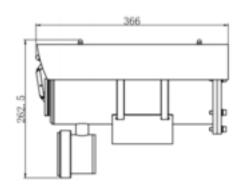
Ex Mark Ex db IIC T6 Gb

Ex tb IIIC T80°C Db

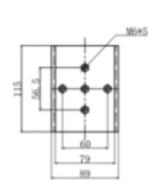
Ta= -40°C ≤ Tamb ≤ +60°C

Certificates ATEx / FCC / CE

Dimensions









Optional Accessories







Ex-Proof Junction box

Ex-Proof hose

Bracket

2MP 20X Explosion Proof Anti-corrosion Crane Damping Starlight IR Camera KDH-EX-VL220IR01C



Product Introduction:

This Crane CCTV system meets the requirements of Crane operators . The Crane cctv system is to be installed in hazardous areas and is primarily used on offshore cranes, supplied with up to 3-4 cameras providing clear view of the cargo, the wire drum and pedestal enhancing hoisting operations.

Whereas building structures, objects, distances and light conditions used to represent big challenges for the crane operator, the Crane CCTV makes even the most challenging tasks feasible. With a crane camera installed to overlook the topside of the load and crane hook assembly, valuable information is relayed to the crane operator via his monitor. Offered a clear view of the load on the monitor the traditional difficulties of manoeuvring the load safely and efficiently have been reduced significantly.

The optional Automatic Object Tracking feature automatically zooms in on the predefined object, tracking the payload during hoisting or lowering, keeping the object a constant size on the screen. This is practical for checking clearances, correct wire spooling etc. The interface unit uses an analogue feedback signal from the wire drum. The Crane Camera overlooking the crane hook assembly is suspended from the crane structure via an integrated oil damper. The design keeps the camera in a stable vertical position even when the crane boom is tilted. The oil damper absorbs shocks and vibration protecting the camera and ensuring stable pictures.

Depending on the model, the Crane CCTV system includes either a joystick or a push-button based control. All camera functions such as iris, zoom, focus and camera selections can be operated with the joystick. The joystick can be removed from the control box and installed into other panels if required.

A compact central unit links the system together as well as providing room for the electronics and the power supply for the camera station

This crane damping CCTV camera is developed for offshore surveillance system. It is featured as to get stable video, and will not effect by crane moving or working



Mechanical

Housing Stainless steel 304 or 316L

IΡ **IP68**

Cable thread hole 2pcs G3/4 or NPT3/4

Stable type oil pressured type

5m/sImpact speed

≤ 2.5° Swing angle

Return back time ≤1.5s

Voltage AC100-240V, AC24V or POE

Power 8W

Ambient

-40 to +60 ℃ Ambient temperature

80Kpa to 106Kpa Air pressure

Relative Humidity ≤95% (no condensation)

Network

Network Interface 1pcs of RJ45, support 10M/100M/1000M

Video Compression H.264 main profile / MJPEG

G.722.1/ G.711-a law/ G7.11-u law/MP2L2/G.726 **Audio Compression**

Voice Intercom Support

Stream Support three streams

Internet Protocol IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,

> FTP,SMTP,UPnP,SNMP ,DNS,DDNS,NTP,RTSP,RTP,

TCP,UDP,IGMP,ICMP,DHCP,PPPoE

Time Display Support

Standard ONVIF, CGI, GB/T28181, PISA

IE browser Support IE7 or above, Google, Firefox, Apple

Password protection, Multiple access control Security

Camera

Image Sensor 1/2.8" interline-transfer CCD

Effective pixel 1.3MP, 2MP, 4MP, 8MP

Lens 4.7-94mm (20X), 4.5-135mm (30X)

Min. Illumination Color 0.05Lux B/W: 0.01Lux

Day&night Auto/Color/BW

S/N ratio >52dB (AGC off)



Gain off/lower/higher

White Balance Auto/ Manual/ Auto tracking white balance/ indoor/outdoor/ Sodium

Lamp/ Fluorescent Lamp

3D DNR Support BLC ON/OFF

Image setting Mirror, Saturation, Brightness, Contrast, Sharpness adjustable

Optical zoom 20X / 30X

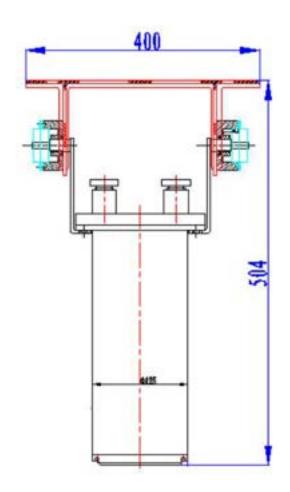
General

Cable integrated cable
Size 504*125*400mm

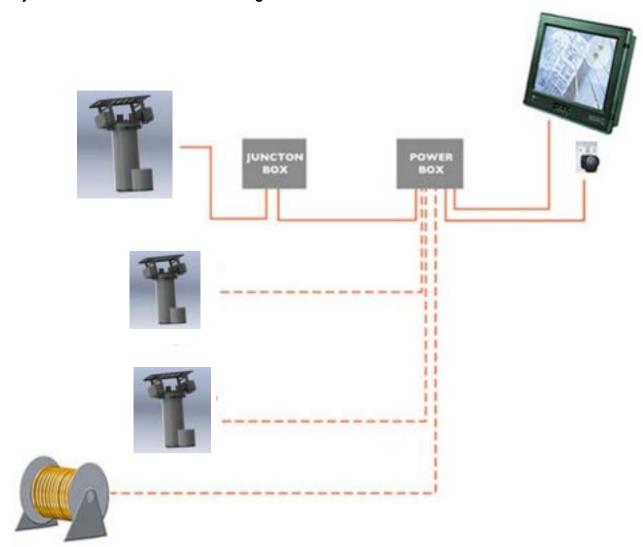
Weight 10kg

Mount On crane

Dimensions:



The system consist of as following:



KDH-EX-VLM4828IR

4x8MP Ex-Proof Anti-Corrosion Multi-Sensor Panoramic Bullet Starlight IR Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

The splicing camera supports a 180° panoramic view and 4-channel hardware splicing to realize HD panoramic surveillance. The camera supports crowd situation analysis, vehicle situation analysis, and perimeter protection. It is widely applied in various scenes such as squares, airports, safe city, and traffic.

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Panoramic Splicing

With advanced splicing algorithm, Dahua Panoramic Splicing technology deletes overlapped area and splices multiple images to be a complete panorama. The field of view of the spliced image can be up to 360°, which largely improves surveillance efficiency and user experience. Generally, after splicing, the field of view of four-sensor camera can be 180°, and the field of view of eight-sensor camera can be 360°.

- \cdot 4 × 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 32MP (8192 \times 3840) @25/30 fps; with intelligent functions enabled, it can output 32MP (8192 \times 3840) @25 fps
- · Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- · Intelligent detection: Intrusion, tripwire
- Intelligent functions: Crowd distribution map, Vehicle situation
- Supports object tracking and image correction
- · Support video clip, the image can be clipped as needed
- · Stainless Steel 304 or 316L Material.
- Ex-Proof ,Corrosion Proof ,Whether Proof ,designed for Potential Explosive Environment or high Corrosive Environment .
- •Ex-Proof Sign:Ex d IIC T6 Gb/Ex tD A21 IP68 T80degree















Crowd Density

With deep learning algorithm, Dahua Crowd Density technology can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

Vehicle Density

With deep learning algorithm, Dahua Vehicle Density technology analyses the vehicle situation in the image, such as vehicle number in selected area. You can set threshold, and when the number is larger or smaller than the threshold, it triggers linkage.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.



Protection (IP68, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 2m deep water for 120minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

Image Sensor	1/1.8" 8Megapixel progressive CMOS
Max. Resolution	8192 (H) × 3840 (V)
ROM	4 GB
RAM	8 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.005 Lux@F1.6 (Color,30IRE) 0.0005 Lux@F1.6 (B/W,30IRE) 0 Lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	30 m (98.4 ft) (IR LED)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	8 (IR LED)
Pan/Tilt/Rotation Range	Tilt: 0°-90° Rotation: 0°-360°

Lens

Lens Type	Fixed-focal			
Mount Type	M12			
Focal Length	2.8 mm			
Max. Aperture	F1.6			
Field of View	Horizontal: 180°; vertical: 90°			
Iris Type	Fixed			
Close Focus Distance	1.8 m (5.9 ft)			
	Detect	Observe	Recognize	Identify
DORI Distance	84.0 m (275.6 ft)	33.6 m (110.2 ft)	16.8 m (55.1 ft)	8.4 m (27.6 ft)

Professional, intelligent

Vehicle Density	Vehicle density; parking upper limit; vehicle congestion alarm
IVS (Perimeter Protection)	Intrusion; tripwire
Crowd Distribution Map	Crowd map, global people counting; people counting in area

Video

Video Compression	$\mbox{H.265; H.264; H.264H; H.264B; MJPEG}$ (only supported by the sub stream)
Smart Codec	Smart H.264+/Smart H.265+

Video Frame Rate	Main stream: 8192 × 3840 (1–25/30 fps) Sub stream: 1280 × 600 (1–25/30 fps) Third stream: 2304 × 1080 (1–25/30 fps)
Stream Capability	3 streams
Resolution	Splicing: 32M (8192 × 3840); 7680 × 3600; 7168 × 3360; 6720 × 3152; 5760 × 2700; 4800 × 2252; 4096 × 1920; 2880 × 1360; 2304 × 1080; 1280 × 600; 2408 × 960; 1520 × 712 Non-splicing: 4320 × 7680; 2880 × 5120; 2160 × 3840; 720 × 1280; 1080 × 1920
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 96 kbps–65536 kbps H.265: 38 kbps–55612 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Privacy Masking	4 areas
Audio	

Audio Compression	G.711A; G.711Mu; G.726; G.723
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Alarm Event

Alarm Event	No SD card; SD card full; SD card error; service life warning; network disconnection; IP conflict; illegal access; voltage detection; safety exception; motion detection; video tampering; scene changing; Input Abnormal detection; intensity change detection; external alarm; tripwire; intrusion; crowd density detection; traffic congestion; maximum vehicle

Network

Network	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Protocol	IIPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP; Bonjour	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; RTMP	
User/Host	20	



Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE:IE10 and later
Management Software	Smart PSS; DSS
Certification	
Certifications	CE-LVD: EN62368-1 ATEX (EN60079) CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Port	
RS-485	1 (baud rate range: 1200 bps–115200 bps)
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: 5mA 3V–5V DC
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC
Power	
Power Supply	12V DC
Power Consumption	Basic power consumption: 4.9W (12V DC); 6.4W(24V AC); 6.5W (PoE) Max. power consumption (ICR + IR LED): 12.5W (12V DC);14.3W(24V AC); 14.9W (PoE)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Operating Humidity	≤ 95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP68; IK10
Structure	
Casing	Stainless Steel 304 or 316 Material
Dimensions	298.3 mm × 172.5 mm × 120.5 mm
Net Weight	11kg

13kg

Gross Weight

Accessories

Optional

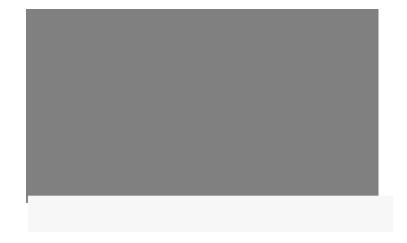




Explosion Proof Hose

Explosion Proof Junction Box

Dimensions (mm [inch])





KDQ-EX-VLM452812IR

4 × 5MP Ex-Proof Anti-Corrosion Multi-Sensor No-Splicing Panoramic Starlight WDR IR Dome Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

The non-splicing camera can adjust each lens to realize 360° surveillance, which can be used in the scenes with multiple cameras, and is easy to install. Stereo vision camera has the functions such as deep detection and behavior analysis.

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

- \cdot 4 × 5MP 1/2.7" CMOS image sensor, low illuminance, high image definition
- \cdot 4-channel stream output, and each channel can output max. 5MP (2592 \times 1944) @25/30 fps
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · Support 4-channel 120 dB WDR
- · The intelligent functions of 4 channels can be enabled at the same time
- Intelligent detection: Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, people gathering, parking detection, and face detection
- FlexStream: The 4 channels of images can be viewed in a defined channel with 1 channel stream. That is, the multiple images can be displayed in 1 channel.
- · Web5.0 interface design, which is friendly to users, and easy for operation
- \cdot Built-in efficient IR LED , and the max. illumination distance is 30 m $\,$
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; 485; supports max. 256 G Micro SD card,12V DC/POE power supply;
- · Stainless Steel 304 or 316L Material .
- Ex-Proof ,Corrosion Proof ,Whether Proof, mainly designed for Potential Explosive Environment or high Corrosive Environment .
- Ex-Proof Sign:Ex d IIC T6 Gb/Ex tD A21 IP68 T80degree













One IP Address for Multiple Streams

With one IP address, Dahua multi-sensor camera can display multiple images. The camera can do multi-image monitoring through software platform or NVR.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

WDR

With advanced Wide Dynamic Range 120dB WDR technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.



Protection (IP68, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 2 m deep water for 120 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

Image Sensor	1/2.7"5Megapixel progressive CMOS
Max. Resolution	2592 (H) × 1944 (V)
ROM	32 GB
RAM	4 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.005 Lux@F1.7(Color,30IRE) 0.0005 Lux@F1.7(B/W,30IRE) 0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.4 ft) (IR LED)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	8 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°-360° Tilt: 0°-80° Rotation: 0°-355°

Lens

Smart Event

IVS

Lens Type		Motorized vari-focal			
Mount Type		ф14			
Focal Length		2.8 mm-12 m	nm		
Max. Apertu	re	F1.7			
Field of View		Horizontal: 10 Vertical: 74°– Diagonal: 133	27°		
Iris Type		Fixed			
Close Focus I	Distance	0.8 m (2.6 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	66 m (216.5 ft)	26.4 m (86.6 ft)	13.2 m (43.3 ft)	6.6 m (21.7ft)
	T	140.4 m (460.6 ft)	56.1 m (184.1 ft)	28 m (91.9 ft)	14 m (45.9 ft)

Professional, intelligent

IVS (Perimeter Protection)	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
Face Detection	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/Smart H.264+
Video Frame Rate	Single Stream: Main stream: 5MP (1–25/30 fps) Sub stream: D1 (1–25/30 fps) Third stream: 2MP (1–25/30 fps) FlexStream: Main stream: 2MP (1–25/30 fps) Sub stream: D1 (1–25/30 fps) Third stream: 8MP (1–25/30 fps)
Stream Capability	3 streams
Resolution	Single Stream: 5M(2592×1944); 4M(2688×1520); 3M(2048×1536);2M(1920×1080);720P(1280×720); D1(704×576/704×480);CIF(352×288/352×240) FlexStream:8M(3296×2472);5M(2592×1944); 2M(1600×1200);1.3M(1280×960); D1(704×576/704×480);CIF(352×288/352×240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 3 kbps–19456 kbps H.265: 3 kbps–19456 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	4 × 120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Duit to a to Manadaine a	



Abandoned object; missing object

4 areas

Privacy Masking

Audio	
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; safety exception; voltage detection
Network	
Network	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes

Structure	
Casing	Stainless Steel 304 or 316L material
Dimensions	286.1 mm × 111.3 mm (11.3" × 4.4")
Net Weight	7 kg
Gross Weight	8 kg

Network	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; Milestone; Genetec; RTMP; P2P	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Browser	IE: IE9 and later Chrome: 41.0 and later No-plug version: Safari and edge	
Management Software	Smart PSS; DSS	
Mobile Phone	IOS; Android	
Certification		

Cer	titi	cat	ion

01/ COL. 0200330 1 C/M/ C3/ C22.2 NO.00330 1 0/	Certification	CE-LVD: EN62368-1 ATEX (EN60079) CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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Port

RS-485	1 (baud rate range: 1200 bps–115200 bps)
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	3 channel in: 5mA 3V–5V DC
Alarm Output	2 channel out: 300mA 12V DC

Power

Power Supply	12V DC/POE(802.3at)
Power Consumption	Basic power consumption: 8.1W (12V DC); 9W (PoE) Max. power consumption (ICR + IR intensity): 21.5W (12V DC); 22.2W (POE+)

Environment

Operating Conditions	-40°C to +60°C/Less than 95% RH
Storage Conditions	-40°C to +60°C
Protection Grade	IP68; IK10

Accessories

Optional







Wall Mount Bracket Ceiling Mount Bracket

Mount Adapter



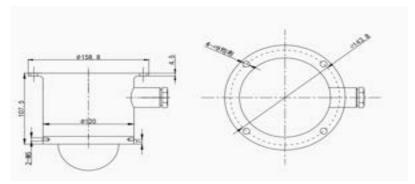


Ex-Proof Junction Box

Ex-Proof Hose



Dimensions (mm [inch])



Notes: the dimensions may change without notice.



The equipment shall be marked with the following symbols:



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

- 2-Megapixel 1/2.8" Progressive Scan CMOS, maximum resolution up to 1920 × 1080, clear and delicate images
- 3 0 X optical zoom, fast and accurate focusing
- Support ultra-low illumination, 0.002 lux @ F1.2 (AGC ON) color, 0 .0002 lux @ F1.2 (AGC ON), black and white
- Support wide dynamic, 3D digital noise reduction, strong light suppression and other functions
- Support H.265/H.264 efficient compression algorithm, greatly reducing the bit rate
- Full-featured: heartbeat, PTZ control, user management
- Intelligent wiper function, the wiper adopts automobile wiper blade, 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 100
- 360° rotation in the horizontal direction, -90° to 0° in the vertical direction, no monitoring blind zone, Rotation speed: 0.1-45°/s adjustable.

Product Description

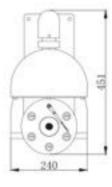
The camera series 2MP explosion-proof anti-corrosion PTZ camera is fully-developed and specially designed for use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is zone 1 and zone 2 of the t1-t6 group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22 of the t1-t6 group. Such as: petroleum, chemical, mine, military, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain processing and storage.

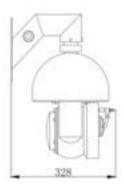
The system uses 304/316L stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of -40°F~140°F (-40°C~60°C). This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities. Also widely used for offshore maritime environment.

Technical Specifications

Model	KDQ-EX -PTZ2030IRW01
Vandal Resistance	IK10
Protection Level	IP68
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Signal System	PAL/NTSC
Minimum	Color: 0.002 lux @ F1.2 (AGC ON);
Illumination	B/W: 0.0002 lux @ F1.2 (AGC ON)
Day/Night	ICR
Functionality	ici
Scanning System	Progressive Scan
Shutter	1/6~1/8000s
Day/Night Switch	ICR
WDR	120dB
OSD	Customized OSD with custom effects for
Malian Balantin	multiple content styles
Motion Detection	Support
Privacy Mask	Support
Statistical Analysis	Traffic Statistics
Intelligent	Cross-line detection, illegal parking,
Functions	automatic tracking, face detection, license plate recognition etc
Lens	license plate recognition etc
	30x
Optical Zoom	30%
Aperture/Focal Length	F1.5~ F3.0, f=4.5~ 135mm
Menu Control	
Exposure Mode	Auto/Manual
Focus Mode	Auto/Manual
Video	Auto/ivialiual
Video Compression	
Standard	H.265/H.264/MJPEG
Encoding Capability	1080p&30fps
Audio Compression	N/A
Audio Compression Standard	N/A
•	N/A
Standard	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP,
Standard	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP,
Standard Network Features	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP,
Standard Network Features Supporting Protocol	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP,
Standard Network Features Supporting Protocol General Function	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP
Standard Network Features Supporting Protocol General Function Interface	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control
Standard Network Features Supporting Protocol General Function	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control
Standard Network Features Supporting Protocol General Function Interface	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS ON 100m
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS ON 100m N/A
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS Dn 100m N/A Horizontal: 0°-360°
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS Dn 100m N/A Horizontal: 0°-360° Vertical: -90°-0°
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS Dn 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS DI 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95%
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS ON 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS On 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS DI 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height)
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS On 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS DI 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height)
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS ON 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height) 1 Entry hole G3/4"
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification Installation Method Weight	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS ON 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height) 1 Entry hole G3/4" Wall or column platform installation ≤ 21Kg
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol USB Interface Power Cables General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification Installation Method	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control N/A 1 RJ45 10m/100m self-adaptive Ethernet port N/A ONVIF N/A 3PCS ON 100m N/A Horizontal: 0°-360° Vertical: -90°-0° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height) 1 Entry hole G3/4" Wall or column platform installation ≤ 21Kg

Dimensions





Unit: mm

Accessories





Junction box Hose



Certifications

DISTRIBUTED BY SEATRONX (800) 607-1460 (USA) • (772) 418-5035 info@seatronx.com • www.seatronx.com

2MP 30X Explosion Proof Anti-Corrosion WDR PTZ Dome Camera KDQ-EX-PTZ203002



Product characteristics

Optical properties

Automatic day and night conversion (ICR)

30x optical zoom, autofocus

120 dB Optical width dynamics

Coding characteristics

1080P image format is supported and the picture is clearer

Advanced H.265 coding algorithm, coding compression efficiency is higher

Three-bit stream package capability to meet the real-time and storage flow requirements of different bandwidth and frame rate

Built-in auto-focusing algorithm with fast speed, accurate focus and other characteristics

Customize OSD, provide custom effects of multiple content styles



Network characteristics

Network adaptive, packet loss environment provides effective monitoring

Dual iSCSI data block direct storage (with platform use)

Onvif GB/T28181 support

Quality Camera module structure

Support for electronic compass, automatic azimuth calibration

Structure Design

IP68 Ingress Protecition

Stainless Steel 304 or 316L Casing.

Ex-Proof Design for hazardous potential explosive sites .

Application Environment:

KDQ series HD 2MP explosion-proof integrated IP PTZ camera is fully-developed and specially designed for use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is zone 1 and zone 2 of the t1-t6 group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22 of the t1-t6 group. Such as: petroleum, chemical, mine, military, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain

processing and storage.

The system uses 304/316L stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of $-40^{\circ}F^{-1}40^{\circ}F$ ($-40^{\circ}C^{-6}0^{\circ}C$). This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities. Also widely used for marine safe environment.

Product specifications

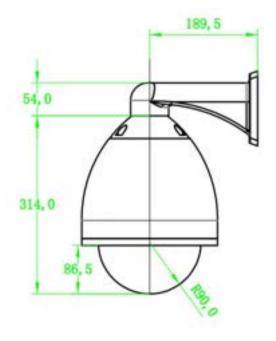
Camera	Description	
Imaging devices	1/2.8 inch Progressive Scan CMOS image sensor	
Focal length/change	Range of focal length :4.5~13 5 mm ,30X optical zoom	
Zoom mode	Electric zoom, autofocus	
aperture	Automatic/manual, aperture range: F1.5~F3.0	



Shutter	Auto/manual, shutter range :1/6~1/100000 s	
Wide dynamic range	120 dB	
Minimum illumination	0.002 lux (F1.5, AGCON, colour) 0.0002 lux (F1.5, AGCN, black and white)	
Day and night switching	Automatic infrared filter switching color to black	
Video	Description	
Code Protocol	H.265、H.264、MJPEG	
Code format	1080P (1920*1080) Maximum 30 frames/sec	
Video streaming	Three-code stream	
OSD	Time OSD, Custom OSD	
Privacy Cover	Support	
Storage	Description	
Front-end storage	Support for Micro SD storage, up to 128 GB	
Back-end storage	Dual iSCSI data block direct storage (with platform use)	
Intelligent	Description	
Movement detection, cross-border detection, area intrusion, entry area, Behavioral testing departure area, hovering detection, rapid movement, personnel gathering parking detection, residual detection, moving items detection		
Abnormal detection	Occlusion detection, abnormal sound	
Intelligent Identification	Face detection	
Statistical analysis	Passenger flow statistics	
Network	Description	
Agreement	L2TP 、IPv4、IGMP 、ICMP 、ARP 、TCP 、UDP 、DHCP 、PPPoE 、RTP 、RTSP 、DNS 、DDNS 、 NTP 、FTP 、UPnP 、HTTP 、SNMP 、SIP 、802.1X etc	
Compatibility	ONVIF2.4、GB/T28181(Compatible with New National Standard)	
Dam CT:IA		
Pan&Tilt	·	
Horizontal range	0°~360° continuous rotation	
	0°~360° continuous rotation 0°~90° Automatically flipped 180° and continuously monitored	
Horizontal range		
Horizontal range Vertical range	0°~90° Automatically flipped 180° and continuously monitored	
Horizontal range Vertical range General characteristics	0°~90° Automatically flipped 180° and continuously monitored Description AC24V /AC85V -250V /AC110V/AC220V /DC12V/PoE	
Horizontal range Vertical range General characteristics Power consumption	0°~90° Automatically flipped 180° and continuously monitored Description AC24V /AC85V -250V /AC110V/AC220V /DC12V/PoE Notes:if with DC12V and PoE, the cable can not exceed 10meters	
Horizontal range Vertical range General characteristics Power consumption Size	0°~90° Automatically flipped 180° and continuously monitored Description AC24V /AC85V -250V /AC110V/AC220V /DC12V/PoE Notes:if with DC12V and PoE, the cable can not exceed 10meters Ø 2 3 0 x 4 3 7 mm	
Horizontal range Vertical range General characteristics Power consumption Size Weight	0°~90° Automatically flipped 180° and continuously monitored Description AC24V /AC85V -250V /AC110V/AC220V /DC12V/PoE Notes:if with DC12V and PoE, the cable can not exceed 10meters Ø 2 3 0 x 4 3 7 mm 12kg	
Horizontal range Vertical range General characteristics Power consumption Size Weight Working environment	0°~90° Automatically flipped 180° and continuously monitored Description AC24V /AC85V -250V /AC110V/AC220V /DC12V/PoE Notes:if with DC12V and PoE, the cable can not exceed 10meters Ø 2 3 0 x 4 3 7 mm 12kg -40 ℃~60 ℃	
Horizontal range Vertical range General characteristics Power consumption Size Weight Working environment Ex Mark	0°~90° Automatically flipped 180° and continuously monitored Description AC24V /AC85V -250V /AC110V/AC220V /DC12V/PoE Notes:if with DC12V and PoE, the cable can not exceed 10meters Ø 2 3 0 x 4 3 7 mm 12kg -40 °C ~60 °C Ex d IIC T6 Gb/Ex tD A21 IP68 T80 °C	
Horizontal range Vertical range General characteristics Power consumption Size Weight Working environment Ex Mark Ingress Protection	0°~90° Automatically flipped 180° and continuously monitored Description AC24V /AC85V -250V /AC110V/AC220V /DC12V/PoE Notes:if with DC12V and PoE, the cable can not exceed 10meters Ø 2 3 0 x 4 3 7 mm 12kg -40 °C ~60 °C Ex d IIC T6 Gb/Ex tD A21 IP68 T80 °C IP68	



Dimensions



Optional Accessories



Ex-Proof Hose



Ex-Proof Junction Box

2MP 12X Explosion Proof Anti-Corrosion Mini PTZ IR Dome Camera KDQ-EX-PTZ2012IR04



Key Features

- Max. 2Megapixel (1920 x 1080) resolution@25fps(50HZ/60HZ)
- 5.0 ~ 60mm (12x) optical zoom lens ,1/2.8 sony 307 cmos ,IR Range up to 40meters
- •Support RTSP&Onvif (Medio2 version), Compatible with many third-party NVRs and CMS.
- H.265+, H.265/H.264 IP/Network IR PTZ Camera ,pan:0-355°/Tilt:0-90°,moving speed @40°/s.
- Support Multiply web browsers :IE /Firefox/Chrome/Safari etc .
- P2P Cloud service ,Free PC client Software and smartphone APP, support Alarm snapshot to email and FTP ,Day/night ,AWB ,MWB,BLC,HLC ,2D/3D-DNR,Shutter , IR-CUT ,D-WDR,Mirror,rotate ,Motion detection etc functions .
- Audio in /out (RCA optional)alarm out .DC12V or PoE Power .
- $\bullet \text{Made of Stainless Steel 316L for maritime environment, IP68 ingress protection} \ . \\$
- Support UTC&RS-485 Control function .
- Made of Stainless Steel 304 or 316L material, Ex-proof, corrosion Proof, waterproof, used for potential explosive sites and high corrosive sites.
- ExMark:EXMark:ExIICT6Gb/ExtDA21IP68/67/66T80 C

Application Environment

The Stainless Cameras not only be designed to use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is zone 1 and zone 2 of the t1-t6 group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22 of the t1-t6 group. Such as: petroleum, chemical, mine, military, medicine, oil depot, drilling platform, gas station, fireworks production, grain processing and storage etc. but also can be used for offshore ,Ship ,Vessel ,Marine Safe evironment etc



Camera

Image Sensor: 1/2.8" 2MP Progressive Scan CMOS

Signal System: PAL/NTSC

Min. Illumination: Color: 0.05lux @(F1.2, AGC ON), 0 lux with IR

Shutter Time: 1/25 s to 1/100,000 s

Lens: 5-60mm Motor Lens

Day&Night: IR cut filter with auto switch

Image Enhancement: BLC/3D DNR/D-WDR

Motion Detection Support

Privacy Protection Support(4 Self-customized Areas)

Water-Proof: IP68

Illumination for Infrared 0.5~3Lux

Switching: 850nm

Mimimum Illumination: 0 Lux(IR 0N)

IR Range: 2PCS LEDS, up to 60m IR

Pan 0-355°@40°/s Tilt 0-90°@40°/s

Compression Standard

Video Compression: H.265+/H.265/H.264/MJPEG

Video Bit Rate: 32Kbps~12Mbps(CBR/VBR Selectable)

Audio Compression: G.711U

Dual Streams: Yes

Triple Streams: No

Image

Max. Image Resolution: 1920*1080(2MP)

Frame Rate: 50/60Hz: Max.: 1920*1080/1280*960/1280*720@25fps Sub Stream: 50Hz/60Hz: Max. (704*576/640*360/352*288)@25fps

Third Stream(Mobile

Stream):

Image Settings: Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable

via client software, web browser or Smartphone App

Day/Night Switch: Auto/Day/Night/Scheduled

Network

Network Protocols: HTTP, TCP/IP, IPv4, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, IP Search(Support P6S IP camera, DVR, NVS and etc.)



DISTRIBUTED BY SEATRONX

General Function:

System Compatibility:

On-line Viewing

Communication Interface:

RCA Audio Interface:

DC Power Plug:

Anti-Flicker, heartbeat, mirror, password protection, privacy mask, Watermark
ONVIF Medio2/P6S

Max. Support 6 Users Simultaneously

Interface

1 RJ45 10M / 100M Ethernet Interface

RCA Audio input/output Interface (Optional)

DC Power Femate Interface

General

-40 °C ~ 60 °C

Humidity 95% or less (non-condensing)

12 V DC \pm 10%/PoE(Optional)

12 VDC \pm 10%, Max Power Comsumption Less than 15W

(When the infrared lamps turn on)

Stainless Steel 316L

4KG

Operating Conditions:

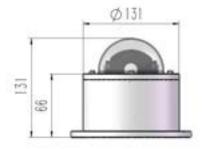
Power Supply:

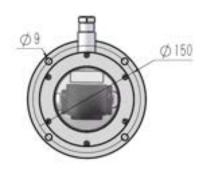
Power Consumption:

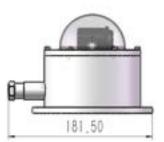
Housing Material

Weight:

Outside Dimensions:







Optional Accessories:







Ex-Proof Anti-Corroiosn Junction Box



(800) 607-1460 (USA) • (772) 418-5035 info@seatronx.com • www.seatronx.com

KDQ-EX-VL2040FL8205IR 2MP 40X Optical zoom 8PCs Fixed Lens Ex-Proof Anti-Corrosion IR Starlight 360degree Panoramic PTZ Dome Camera



· Support 360-degree panoramic view

· Panoramic camera: Eight 1/1.8" 2 Megapixel progressive scan CMOS

- · PTZ camera: One 1/1.8" 4 Megapixel progressive scan CMOS
- · Starlight technology
- · Support Smart H265+/H264+ encoding
- · Day/Night (ICR); 3D NR; AWB; AGC; BLC
- · IR distance up to 400 m
- · Ex-Proof Sign:Ex d IIC T6 Gb/Ex tD A21 IP68 T80degree
- · IP68 Ingress Protection.
- · Stainless Steel 304 or 316L Material .
- · Ex-Proof ,Corrosion Proof ,Whether Proof ,designed for Potential Explosive Environment or high Corrosive Environment .

















Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Starlight panoramic HD network camera, with all-in-one design, provides a 360° panorama and region of interest details at the same time. The panoramic network combines 8 sensors working in tandem to realize 360° panoramic surveillance; all-in-one module and high-speed PTZ camera provides the function of quick position details. In addition, with video analytic algorithm and multi-target track algorithm, the camera can automatically or manually detect tripwire and intrusion of mutiple targets in detection area, output alarm signal, and then link PTZ for smart tracking. With these excellent features, the camera can meet higher security requirements.

Functions

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Starlight Technology

Featured with Dahua Starlight Technology, the camera is ideal for applications with challenging light conditions. Its low light performance delivers usable video with minimal ambient light. Even in extreme low light conditions, Starlight Technology is capable of delivering color images in nearly complete darkness.

Crowd map

With deep learning algorithm, Dahua Crowd Map technology can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

Tripwire detection and intrusion detection

With advanced CNN algorithm, the detection distance, and the accuracy rate and timely rate of linkage track are much improved.

Smart tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.



Technical Specification			Video					
Camera						Video Compression	ideo Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)	
Image Senso	r	Panoramic camera: 1/1.8"2Megapixel progressive CMOS PTZ camera: 1/1.8"4Megapixel progressive CMOS				Smart Codec	Smart H.265+/ Smart H.264+	
Max. Resolut	ion	Panoramic camera: 8192 (H) × 1800 (V) PTZ camera: 2560 (H) × 1440 (V)				Video Frame Rate	Panoramic camera: Main stream: 8192 × 1800 @1–25/30 fps; sub stream 1: 3840 × 832 @1–25/30 fps; sub stream 2: 4800 × 3840 @1–25/30 fps PTZ camera:	
ROM		Panoramic camera: 4 GB PTZ camera: 32 GB						
RAM		Panoramic camera: 8 GB PTZ camera: 4 GB					Main stream: 2560 × 1440 @1–25/30 fps; sub stream 1: 704 × 480 @1–25/30 fps; sub stream 2: 1920 × 1080 @1–25/30 fps	
Scanning Sys	tem	Progressive				Stream Capability	3 streams	
Electronic Sh	utter Speed		amera: Auto/M Auto/Manual 1					Panoramic camera: 8192 × 1800; 7680 × 1680; 5760 × 1264; 4800 × 3840;
Min. Illumina	tion	Panoramic network camera: 0.001 Lux (Color); 0.0002 Lux (B/W) PTZ camera: 0.001 Lux (Color); 0.0001 Lux (B/W); 0 Lux (IR on)				Resolution	4096 × 900; 3840 × 832; 3200 × 2560; 2560 × 560; 2048 × 452; 1600 × 1280 PTZ camera: 2560 × 1440; 2048 × 1536; 1920 × 1080; 1280 × 960; 1280 × 720; 704 × 576; 704 × 480; 352 × 288; 352 × 240	
S/N Ratio		Panoramic ca PTZ camera:	amera: 56 dB 53.6 dB				Bit Rate Control	Panoramic camera: CBR/VBR PTZ camera: CBR/VBR Panoramic camera:
Illumination I	Distance	PTZ camera:	≥ 400 m (1312	.3 ft) (IR LED)				H.264: 512 kbps–42995 kbps H.265: 256 kbps–26216 kbps
Illuminator O	n/Off Control	Auto/Manua					Video Bit Rate	PTZ camera: H.264: 184 kbps–15104 kbps H.265: 110 kbps–9216 Kbps
Illuminator N	umber	PTZ camera:	7 (IR LED)				Day/Night	Auto (ICR)/Color/B/W
Lens							BLC	Yes
Lens Type		Panoramic camera: Fixed-focal PTZ camera: Motorized vari-focal				HLC	Yes	
Mount Type		Panoramic camera: M12 PTZ camera: Module				WDR	Panoramic camera: True WDR:120 dB PTZ camera: WDR (120 dB)	
Focal Length		Panoramic camera: 5 mm PTZ camera: 5.6 mm-223 mm, 40x optical zoom			Scene Self-adaptation			
Max. Apertu	ture Panoramic camera: F2.0 PTZ camera: F1.3			(SSA)	Yes			
Panoramic camera: Horizontal: 360° Vertical: 84° Field of View PTZ camera: Horizontal: 2.27°–61.40°			White Balance	Panoramic camera: Auto/Natural/Street lamp/Outdoor/Manual/Regional custom PTZ camera: Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural/Street lamp				
		Vertical: 1.30 Diagonal: 2.6					Gain Control	Auto/Manual
Iris Type		Panoramic ca PTZ camera:					Noise Reduction	3D NR
Close Focus [Distance		amera: 1.2 m (3 0.5 m (1.6 ft)	3.9 ft)			Motion Detection	OFF/ON (4 areas)
		Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Panoramic camera: Yes (4 areas) PTZ camera: Yes (4 areas)
DORI distance	Panoramic camera	53.3 m (174.9 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)	5.3 m (17.4 ft)		Electronic Image Stabilization (EIS)	PTZ camera: Yes
distance	PTZ camera	2873.1 m	1149.2 m	574.6 m	287.3 m		Smart Illumination	PTZ camera: Yes
C		(9426.2 ft)	(3770.3 ft)	(1885.2 ft)	(942.6 ft)		Defog	PTZ camera: Yes
Smart eve	Smart event			Privacy Masking	Panoramic camera: 4 areas PTZ camera: 8 areas			
	Professional, Intelligent				Audio			
		Crowd distrib	oution map; glo				Audio Compression	G.711A; G.711Mu; G.726
	Crowd Distribution Map counting in area; crowd density abnormality snapshot Work together with Smart NVR to perform refine intelligent Search videos.				Alarm	Alarm Event No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection and external alarm.		



Network	
SDK and API	Yes
Network	RJ-45 (10/100/1000 Base-T)
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Interoperability	ONVIF (Profile G/T/S); CGI
User/Host	20 (Total bandwidth: 800 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 G); NAS
Browser	IE: IE7 and earlier Chrome: 42 and earlier Firefox: 52 and earlier Safari: 11 and earlier
Management Software	EVS; NVR; M70; DSS; Milestone; Genetec
Mobile Phone	IOS; Android

Pan Range	Pan: 0° to 360° endless Tilt: –12° to 90°, auto flip 180
Manual Control Speed	Pan: 0.1°/s–240°/s Tilt: 0.1°/s–100°/s
Remote Lens Reset	Yes
Remote PTZ Reset	Yes
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5 patterns
Scan	5 auto scans
Power-off Memory	Yes
Idle Motion	Preset/Pattern/Tour/Scan
Time Task	Yes
3D Positioning	Yes
PTZ Limit	Yes
Position Display	Yes
Information Display	Yes
Time Display	Yes

Certifications

Certification	CE-LVD:EN62368-1 ATEx (EN60079) CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU
	FCC:47 CFR FCC Part 15, Subpart B UL/CUL:UL60950-1 CAN/CSA C22.2 No.60950-1-07

Port

Audio Input	2 channels (terminal)
Audio Output	2 channels (terminal)

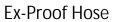
Alarm Input	7 channels in: 5mA 3V–5V DC
Alarm Output	3 channels out: 300mA 12V DC
Power	
Power Supply	36V DC
Power Consumption	Basic power consumption: 58.7WW Max. power consumption (WDR + H.265 + IR LED intensity): 84.4W
Environment	
Operating Conditions	-40°C to +70°C (-40°F to 158°F)
Operating Humidity	≤95%
Strorage Conditions	$5^{\circ}C$ –40°C (41°F–104°F) (The temperature difference of each day is within 15°C /59°F.)
Protection Grade	IP68

Structure

Casing	Stainless Steel 304 or 316L material
Dimensions	Ф387 mm × 420 mm
Net Weight	45 kg
Gross Weight	50kg

Accessories

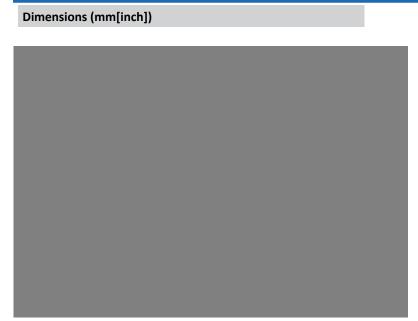






Ex-Proof Junction Box





Notes:may change without notice.





The equipment shall be marked with the following:



Ex db IIC T6 Gb Ex tb IIIC T80°C Db Ta= -40°C < Tamb < +60°C

- 2-Megapixel 1/2.8" Progressive Scan CMOS, maximum resolution up to 1920 × 1080, clear and delicate images
- 4 4 X optical zoom, fast and accurate focusing
- Support ultra-low illumination, 0.002 lux @ F1.2 (AGC ON) color, 0
 .0002 lux @ F1.2 (AGC ON), black and white
- Support wide dynamic, 3D digital noise reduction, strong light suppression and other functions
- Support H.265/H.264 efficient compression algorithm, greatly reducing the bit rate
- Full-featured: heartbeat, PTZ control, alarm, audio, user management
- Intelligent wiper function, the wiper adopts automobile wiper blade, 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 150 meters
- $^{\bullet}$ 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 .

Product Description

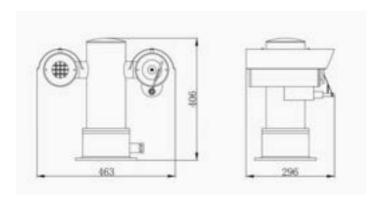
KDY-EX series HD 2MP explosion-proof integrated IP PTZ camera is fully-developed and specially designed for use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is zone 1 and zone 2 of the t1-t6 group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22 of the t1-t6 group. Such as: petroleum, chemical, mine, military, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain processing and storage.

The system uses 304/316L stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of -40°F~140°F (-40°C~60°C). This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities. Also widely used for marine environment.

Technical Specifications

Model	KDY-EX -PTZ2044IRW01
Vandal Resistance	IK10
Protection Level	IP68
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Signal System	PAL/NTSC
Minimum	Color: 0.002 lux @ F1.2 (AGC ON);
Illumination	B/W: 0.0002 lux @ F1.2 (AGC ON)
Day/Night	ICR
Functionality	ich
Scanning System	Progressive Scan
Shutter	1/6~1/8000s
Day/Night Switch	ICR
WDR	120dB
OSD	Customized OSD with custom effects for
	multiple content styles
Motion Detection	Support
Privacy Mask	Support
Statistical Analysis	Traffic Statistics
Intelligent	Cross-line detection, intrusion alarm, illegal
Functions	parking, automatic tracking, face detection,
Laura	license plate recognition
Lens	AAv
Optical Zoom	44x
Aperture/Focal	F1.2~ F3.5, f=5.0~ 220mm
Length	
Menu Control	Ata / A.A
Exposure Mode	Auto/Manual
Focus Mode	Auto/Manual
Video/Audio	
Video Compression Standard	H.265/H.264/MJPEG
	1080p@60fps
Encoding Capability	1000h@001h2
Audio Compression	G 7112 G 71111 AAC
Audio Compression Standard	G.711a, G.711u, AAC
Standard	G.711a, G.711u, AAC
•	
Standard Network Features	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP,
Standard	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP,
Standard Network Features Supporting Protocol	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP
Standard Network Features	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP,
Standard Network Features Supporting Protocol	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user
Standard Network Features Supporting Protocol General Function	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user
Standard Network Features Supporting Protocol General Function Interface Audio Port	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control
Standard Network Features Supporting Protocol General Function Interface	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360°
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-+90°
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95%
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 436*296*406mm (length * width * height) 1 Entry hole G3/4"
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification Installation Method	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-490° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 436*296*406mm (length * width * height) 1 Entry hole G3/4" Wall or column platform installation
Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 150m optional Horizontal: 0°-360° Vertical: -90°-490° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 436*296*406mm (length * width * height) 1 Entry hole G3/4" Wall or column platform installation ≤ 26Kg

Dimensions



Unit: mm

Accessories



Stainless Steel Bracket



Ex-Proof Hose



Ex-Proof Junction Box



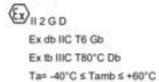
CE, ATEX, FCC

Product

Certifications



The equipment shall be marked with the following:



- 2-Megapixel 1/2.8" Progressive Scan CMOS, maximum resolution up to 1920 × 1080, clear and delicate images
- 3 0 X optical zoom, fast and accurate focusing
- Support ultra-low illumination, 0.002 lux @ F1.2 (AGC ON) color, 0
 .0002 lux @ F1.2 (AGC ON), black and white
- Support wide dynamic, 3D digital noise reduction, strong light suppression and other functions
- Support H.265/H.264 efficient compression algorithm, greatly reducing the bit rate
- Intelligent wiper function, the wiper adopts automobile wiper blade, 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- 45°/s adjustable.

Product Description

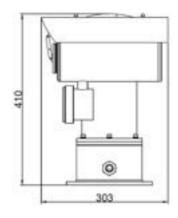
KDY-EX series HD 2MP explosion-proof Anti-corrosion PTZ camera is fully-developed and specially designed for use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is zone 1 and zone 2 of the t1-t6 group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22 of the t1-t6 group. Such as: petroleum, chemical, mine, military, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain processing and storage. It is also applied in marine environment or high corrosive environment due to its good corrosion proof performance such as offshore ,Vessels ,port terminal ,Chemical industries etc.

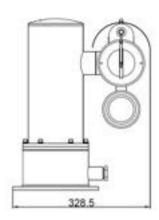
The system uses 304/316L stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of -40°F~140°F (-40°C~60°C). This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities. Also widely used for marine environment.

Technical Specifications

Model	KDY-EX -PTZUVIPVF2030IR02
Vandal Resistance	IK10
Protection Level	IP68
Camera	4 h 0 D
Image Sensor	1/2.8" Progressive Scan CMOS
Signal System	PAL/NTSC
Minimum Illumination	Color: 0.002 lux @ F1.2 (AGC ON); B/W: 0.0002 lux @ F1.2 (AGC ON)
Day/Night	b) W. 0.0002 lux @ 11.2 (AGC ON)
Functionality	ICR
Scanning System	Progressive Scan
Shutter	1/6~1/8000s
Day/Night Switch	ICR
WDR	120dB
OSD	Customized OSD with custom effects for
	multiple content styles
Motion Detection	Support
Privacy Mask	Support
Statistical Analysis	Traffic Statistics Cross-line detection, intrusion alarm, illegal
Intelligent	parking, automatic tracking, face detection,
Functions	license plate recognition
Lens	
Optical Zoom	30x
Aperture/Focal	F1.6~ F4.4, f=4.5~ 135mm
Length	F1.0 F4.4, I=4.5 T55IIIII
Menu Control	
Exposure Mode	Auto/Manual
Focus Mode	Auto/Manual
Video/Audio	
Video Compression	H.265/H.264/MJPEG
Standard Encoding Capability	1080p@60fps
Audio Compression Standard	G.711a, G.711u, AAC
Audio Compression	
Audio Compression Standard	
Audio Compression Standard	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP,
Audio Compression Standard Network Features	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP
Audio Compression Standard Network Features	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user
Audio Compression Standard Network Features Supporting Protocol General Function	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP
Audio Compression Standard Network Features Supporting Protocol General Function Interface	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control
Audio Compression Standard Network Features Supporting Protocol General Function	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional
Audio Compression Standard Network Features Supporting Protocol General Function Interface	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface on 100m
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface on 100m optional
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360°
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-+90°
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95%
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 - 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height)
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-490° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height) 1 Entry hole G3/4"
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specificatio Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification Installation Method	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-490° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height) 1 Entry hole G3/4" Wall or column platform installation
Audio Compression Standard Network Features Supporting Protocol General Function Interface Audio Port Ethernet Port Alarm Port Access Protocol RS485Interface General Specification Infrared Distance Storage Function Rotation Angel Temperature Range Relative Humidity Product Material Power Supply Dimensions Inlet Hole Specification	G.711a, G.711u, AAC L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP Password protection, heartbeat, multi-user access control Optional 1 RJ45 10m/100m self-adaptive Ethernet port Optional ONVIF 1 RS485 interface On 100m optional Horizontal: 0°-360° Vertical: -90°-+90° -40°C ~ 60°C 0 95% 316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A 331*291*377mm (length * width * height) 1 Entry hole G3/4" Wall or column platform installation ≤ 21Kg

Dimensions





(Assembly Dimension)

Unit: mm

Accessories



Stainless Steel Bracket



Ex-Proof Hose



Ex-Proof Junction Box



CE, ATEX, FCC

Product

Certifications





The equipment shall be marked with the following:



Ex db IIC T6 Gb Ex tb IIIC T80°C Db Ta= -40°C < Tamb < +60°C

→ Thermal Camera

- 2-Megapixel 1/2.8" Progressive Scan CMOS, maximum resolution up to 1920 × 1080, clear and delicate images
- 44X optical zoom, fast and accurate focusing
- Support ultra-low illumination, 0.002 lux @ F1.2 (AGC ON) color,
 0.0002 lux @ F1.2 (AGC ON), black and white
- Support wide dynamic, 3D digital noise reduction, strong light suppression and other functions
- Support H.265/H.264 efficient compression algorithm, greatly reducing the bit rate
- Full-featured: heartbeat, PTZ control, alarm, audio, user management
- Intelligent wiper function, the wiper adopts automobile wiper blade, which has good weather resistance and easy replacement.
- Thermal Camera Built-in video compression coding ,easy for network transmission Powerful IDE image detail enhancement algorithm.Intelligent high-temperature pre-alarming with various adjustable grades ,higher detection efficiency ,less misinformation .Enbedded intelligent analysis supports motion detection ,line crossing detection ,regional entry /exit detection ,and intelligent PTZ tracking .Proffessional photoelectrical zooming technology .AGC (automatic gain stability) ,3D noise reduction ,IDE.Double serial communication RS232 /RS485.
- 360° continuous rotation in the horizontal direction, -90° to +90° in the vertical direction, no monitoring blind zone, Rotation speed :0.1- 40°/s adjustable.

Product Description

The series HD 2MP explosion-proof anti-corrosion PTZ Dual light thermal camera is fully-developed and specially designed for use in flammable and explosive hazardous areas that has iia, iib, iic flammable gas, and the ignition temperature group is zone 1 and zone 2 of the t1-t6 group. The flammable gas or the explosive mixture formed by steam and air is also applicable to the ignition temperature group. It is a place containing a combustible dust mixture in Zones 20, 21, and 22 of the t1-t6 group. Such as: petroleum, chemical, mine, military, medicine, oil depot, ship, drilling platform, gas station, fireworks production, grain processing and storage. Also widely used for maritime environment.

Built-in both visible camera and thermal camera which make it applicable in scenarios of zero visiblity and strong light source interference .

The system uses 304/316L stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of -40°F 140 F (-40°C 60 C). This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities.

Technical Specifications of Visible Camera

Model	
Vandal Resistance Protection Level	IK10
Visible Camera	IP68
Image Sensor	1/2.8" Progressive Scan CMOS
Signal System	PAL/NTSC
Minimum	Color: 0.002 lux @ F1.2 (AGC ON);
Illumination	B/W: 0.0002 lux @ F1.2 (AGC ON)
Day/Night	ICR
Functionality	
Scanning System Shutter	Progressive Scan 1/6~1/8000s
Day/Night Switch	ICR
WDR	120dB
OSD	Customized OSD with custom effects for
	multiple content styles
Motion Detection	Support
Privacy Mask	Support Traffic Statistics
Statistical Analysis	Cross-line detection, illegal parking,
Intelligent	automatic tracking, face detection,
Functions	license plate recognition
Lens	
Optical Zoom	44X
Aperture/Focal	F1.2 ~ F3.5, f=5 ~ 220mm
Length Menu Control	
Exposure Mode	Auto/Manual
Focus Mode	Auto/Manual
Video/Audio	
Video Compression	LL 26F/LL 26A/MIDEC
Standard	H.265/H.264/MJPEG
Encoding Capability	1080p@60fps
Audio Compression Standard	G.711a, G.711u, AAC
Network Features	
Network reduces	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP,
Supporting Protocol	PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP,
	UPnP, HTTP, SNMP, SIP
General Function	Password protection, heartbeat, multi-user access control
Interface	access control
Audio Port	1 Input, 1 output Optional
	1 RJ45 10m/100m self-adaptive Ethernet
Ethernet Port	port
Alarm Port	1 Alarm input, 1 Alarm output Optional
Access Protocol	ONVIF
Power Cables RS232 Interface	3 1 RS232 interface
General Specification	
Infrared Distance	150m
	Optional
Storage Function	optiona.
Dotation Angel	Horizontal: 0°-360°
Rotation Angel	Vertical: -90°-+90°
Temperature Range	-40°C ~ 60°C
Relative Humidity	0 95%
Product Material Power Supply	316L or 304 Stainless steel AC 85V ~ 260V or DC24V 3A
Dimensions	449*303*445mm (length * width * height)
Inlet Hole	· -
Specification	1 Entry hole M25"
Installation Method	Wall or column platform installation
Weight	≤ 26Kg
Product Certification Product	ons and Approval
Certifications	CE, ATEx, FCC
eer arroad of 13	

Technical specifications of thermal camera

Characteristics/performan ce	ThermEye3-T	ThermEyes-T
Infrared thermal imaging pa	rameters	*
Type of detector	Non-cooled microthern	nometer
Resolution/pixel spacing	384*288/17µm	640,480/17um
Sensitivity	<60 mk@300mk	<60 mkg300mk
Frame frequency	25Hz	
Response band	8-14µm	
Optical properties	Team of the second	Manager and the second
Focal Point	Fixed lens 9/15/19/	25 /35/ 40/ 50/ 75/ 100/ 150 mm optional
Focus	Manual/automatic (elec	tric lens supports auto-focusing)
Image processing	Alt ==	NO. 100
Network image resolution	720 x576	640 x 480
Analog image resolution	720 x576	640 x 480
Frame stream image frame rate	25 fps+ 720x576 25	25 fps+ 640x 480 25
Frame rate of sub-stream image	25 fps+ 352x 288 25	25 fps - 352x 288 25
Thermal Image Mode	HDR(wide dynamic) mo mode	de, sea and sky mode, heaven and earth
Image enhancement	IDE(image detail enhancement)	
Palettes	9 color palette options white, etc.), custom colo	including iron red, rainbow, black and or palette
Network		
Network protocol	TCP/IP, ICMP, HTTP, BH (Profile S)	CP, DNS, RTP, RTSP, IGMP, 8021 X, ONVIE
Video compression standard	H.264	
Number of video links	Up to 10 at the same tim	se .
Number of users	Up to 10 users	
Radiation Temperature Mea	surement Function	
Object Temperature Measurement Function	-20°C-+120°C,0°C-+300	(customizable)
Accuracy of temperature measurement	x5°C or 5% of readings	(6
Temperature measurement method	Support global, point, li measurement methods	ne, rectangle and other temperature

Accessories



Bracket



Ex-Proof hose



Ex-Proof Junction Box



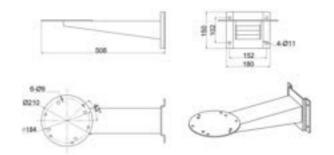
(800) 607-1460 (USA) • (772) 418-5035 info@seatronx.com • www.seatronx.com

Mounting



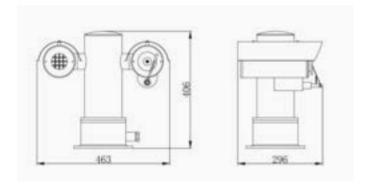


Mounts Dimensions



Unit: mm

Dimensions



2MP 44X Explosion Proof Anti-Corrosion PTZ IR Camera with washer KDY-EX-PTZ2044IRW01P



Functional characteristics

- Made of Stainless steel 316L or 304 ,Mainly used for potential explosive environment .
- intelligent wiper spray system device, support automatic water spray, automatic cleaning window, automatic rotary reset, high finish window.
- image sensor with high performance 2 million pixels 1/2.8 inch 2 million pixels scanned line by line
- have 44 x optical zoom, focal range :5~220 mm,44 x optical magnification
- advanced H.265 coding algorithm, coding compression efficiency is higher
- three-stream package capability to meet different bandwidth and frame rate of real-time flow, storage flow requirements
- ●300 presets, power-off memory, automatic cruise and other functions
- using long-range laser light, low thermal energy, low power consumption, IR distance up to 200 meters
- horizontal direction 0°~360 continuous rotation, vertical direction 0°~180°, no monitoring blind area
- turbine worm drive structure design, precision stepper motor drive, sensitive response, smooth operation.
- built-in semiconductor temperature control module to achieve automatic heating and heat dissipation functions

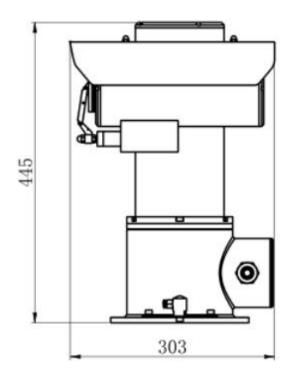
Technical parameters

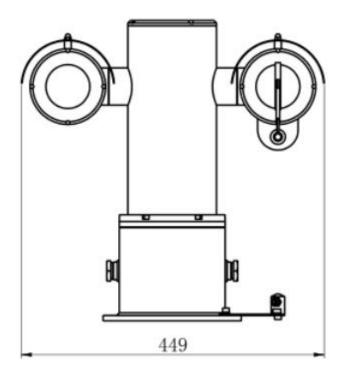
Product model	
Ingress Protection	IP68
Imaging devices	1/2.8 inch Line-by-line scanning of 2 million pixels CMOS image sensors



focal length/variance	Range of focal length :5~220 mm,44 times optical variation
Zoom mode	Electric zoom, auto focus
aperture	Automatic/manual, maximum aperture: F1.2~F3.5
Shutter	Automatic/manual shutter range :1~1/100000 s
Wide dynamic range	120 dB
Minimum III. main akin n	0.002 lux (F1.2, AGCON, colour)
Minimum illumination	0.0002 lux (F1.2, AGCON, black and white)
Code Protocol	H.265、H.264、MJPEG
Coding system	1080P(1920*1080) Maximum 60 frames/s
Video streaming	Three-code stream
OSD	Time OSD, Custom OSD
Motion detection	Support
Privacy cover	Support
Front-end storage	Support Micro SD storage, maximum 256 GB
Back-end storage	Dual iSCSI data block direct storage (with platform use)
	Cross-border detection, regional intrusion, entry into the area, departure from the
Conduct testing	area, hovering detection, rapid movement, personnel gathering, parking detection, items
	left behind, items moved
Abnormal detection	Motion detection, sound detection
Intelligent identification	Face detection, license plate recognition
Statistical analysis	Passenger flow statistics
Automatic tracking	Automatic tracking
Light supplementation	Laser light
Complementary distance	500 m
Range of rotation	Horizontal :360° Continuous rotation vertical :±90°
Key speed	Level :0.1°/ S ~40°/ s, Vertical :0.1°/40/0.1 P/
Application Programming	Open API, support standard protocol (Onvif、CGI、GB/T28181) for software integration
Interface	support for UTV SDK and third party management platform access
Audio interface	1 in 1
Alarm interface	1 in 1
Temperature range	-40°C~+60°C
Power supply mode	AC85V ~260 V/DC24V 3A(optional)
Water tank capacity	10L
Product Material	316L stainless steel (chemical, acid-base and other strong corrosive environment use
Outlet Hole Specification	2 G3/4" outlet holes
Installation	Multiple installation options optional depending on the application environment
Product weight	≤34 kg
Certificates	







Smart washer spray device



Functional characteristics

- > 316L Stainless Steel For All-Weather Use
- Oversized ,10 L Water Storage
- Low Energy Consumption
- Water Spray Automatic Closure , Saving Water Resources
- > Simple And Generous Appearance
- Compact, Easy To Install.

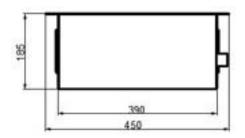
Technical parameters

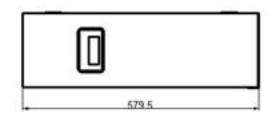
Product Name	Smart washer spray device
Protection level	IP68

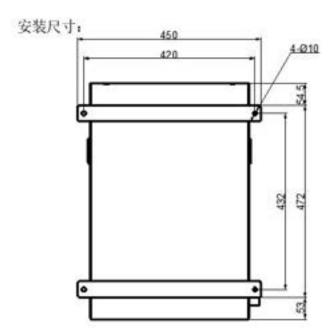


Water storage capacity	10L
Spraying	Water pipe direct linkage outlet nozzle
Water spray signal	Camera linkage
Water shutoff signal	Automatic shutdown
Rated power	24W
Power supply mode	DC12V
Connecting pipes	Standard 10m
Installation	Wall mounted
Product weight	≤10 KG
Product size	579.5*450*185 mm.

Outside Dimension:

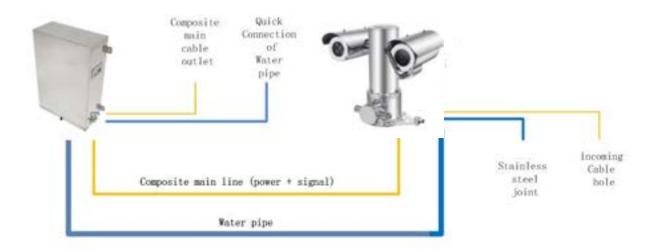






Product connection diagram:

Wiring diagram of smart wiper spray device



Internal composition diagram of intelligent wiper spray device:



Connecting water pipe:

Physical images



Technical parameters

Product Name	PU hose
Product Color	Blue
Product specifications	8 mm*10M
Connection mode	Fast joint connection at both ends
Purpose	Connect water pump and outlet nozzle

Outlet nozzle:

Physical images



Technical parameters

Product Name	All stainless steel spray joint
Product Color	Stainless steel natural color
Product Material	304 stainless steel
Water spray	Water
Connection mode	Fast joint connection
Purpose	Water spray connected to water pipes

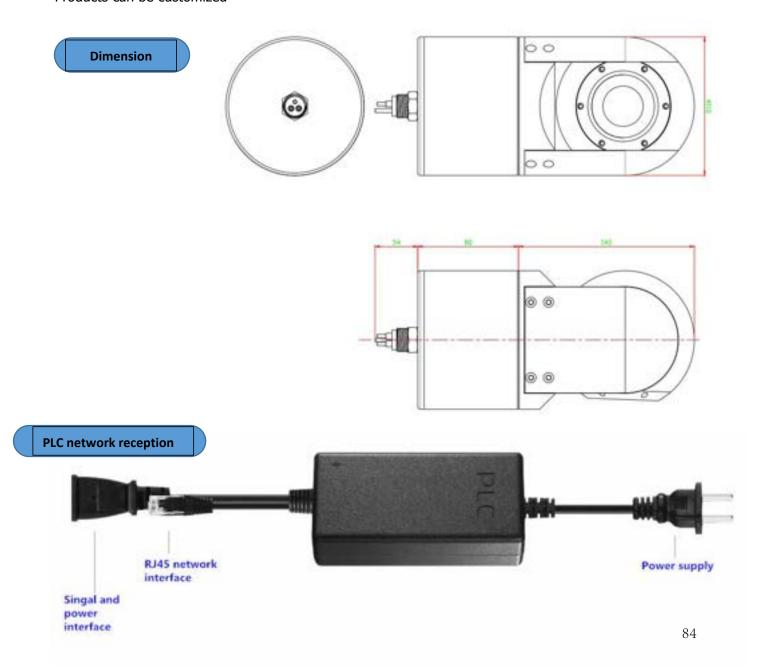


2MP 20X Underwater HD Network PTZ Dome Camera KDQ-UDC-D120



Characteristics

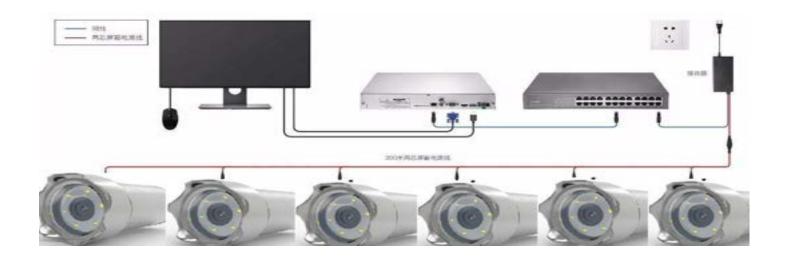
- *20 times Optical variable, high performance sensor, resolution up to 1920*1080
- * Continuous rotation of 360° in horizontal direction, Vertical direction -5°-90°, No surveillance blind spots
- * SDK open, Support a variety of network protocols and networking
- *Products can be customized



Name	Underwater HD network Dome Camera (2 Mega pixels)	
Model	KDQ-UDC-D120	
	Main Parameters	
Image sensor	1/2.8"SONY CCD	
Signal types	Network signal	
Resolution	2 Mega pixels	
Minimum illumination	Colour: 0.05Lux@(F1.4, AGC ON)	
	Black and white: 0.01Lux @(F1.4AGC ON)	
Video processing	H.264/MJPEG	
Network interface	RJ45 networking interface, support 10M/100M network data	
Focused mode	Automatic/semi-automatic/manual	
Day & night mode	Automatic ICR filter color turns black	
compatibility	Support ONVIF platforms such as Haikang, CMS and UC2,	
The Part of	and support mainstream NVR ONVIF	
	Lens	
Lens	4.7-94mm, 20 times optical	
Focal length	20 times Optical variable	
	Function	
	It supports the memory function of power off state and automatically	
	returns to the cradle head and lens state before power off	
Function	Precision motor drive, sensitive reaction, smooth operation,	
	accuracy deviation less than 0.1 degree, no image jitter	
	Provide a complete SDK development kit	
	Specification	
Housing materials	Stainless steel 316L	
Waterproof level	0-300m	
Power supply	48VDC	
Working temperature	-10 °C ~ 50 °C	
Size	Φ120*220 (not including 34mm connector)	
Weight	Camera 7.5KG	
	Spare parts	
Package	Cables, adapters, warranty cards, certifications, suppression reports	
	Depth	
	Бер ш	
Support customization	Sensor (temperature pressure)	



Camera connection diagram









300Meters 2MP 10X Under water Bullet Vari-focal HD Camera KDH-UDC-IF2010X



Product Feature

- 1. Shell Compressive Standard Depth 300m
- 2. High Resolution 2 Mega pixel
- 3. 10X Zoom
- 4. Minimum Illumination 0.001Lux@F1.2
- 5. IP camera, ONVIF Compliant
- 6. Power And Data Transfer By 2 Wires Up To 600m



Main Specifications:

Model	KDH-UDC-SZ10X
Signal type	Network
Pixel	2 mega (1080 10x zoom H265) Optional: 3 mega (3 MP 10x zoom) 5 mega (5 MP 10x zoom)
Sensor	HI3516EV100+1/2.8" Sony 307 sensor Optional: 3 mega (HI3516EV200+1/2.7" SC 3235 sensor) 5 mega (HI3516EV300+1/2 8" Sony 335 sensor)
Video standard	PAL/NTSC
Video processing	H265/H264 video coding, support dual stream, AVI format, support code stream 0.1M-6Mpbs adjustable, support frame rate adjustable
Lens	10x optical zoom, standard 4.9~47 mm automatic zoom lens
Min. illumination	Color: 0.01Lux@F1.2, B/W: 0.001Lux@F1.2
Video output	2 mega H265/H264 1080P (1920*1080P) Optional: 3 mega H265/H264 (2048*1536) 5 mega H265/H264 (2592*1944)
Network connect method	Support wireless network connection, one-click WPS function, hot spot direct connection function
Mobile computer direct connection	Support self-generated AP hotspot, wireless connection, no need for wireless router
Hardware function	Support one-button reset function, support AP mode for point-to-point viewing
Audio function	Audio input and output function
Wireless wifi function	Support, no wifi module
IF card	Support, Card recording (up to 128G)
РТ	1 RS485 interface, support PELCO (P) and other PTZ lens control protocols



ONVIF RTSP protocol	Support
Network port function	Support RJ45 network cable connection
Signal interface	1 pcs photoresistor interface, 1 pcs IR-CUT drive interface, supporting the linkage of the photoresistor input signal and IR-CUT infrared lamp
Lightning protection	Power supply lightning protection, meet the national standards GB/T17626.5, international standard IEC61000-4-5.
Business functions	Support WEB configuration, support OSD, support real-time video transmission, support motion detection alarm center reminder and screen pop-up linkage, support JPEG capture, support unified client remote monitoring software
Mobile phone monitoring	Support mobile phone monitoring (Android / Iphone) mobile phone software name camhi
Power	DC 12V
Dimension (camera mould)	38*38 mm
Description	Need to cooperate with mobile phone client, support WPS technology to connect to watch video with one click, bid farewell to the limitations and inconvenience of traditional "wired", enjoy the space and convenience of new technology "wireless"
Star level	Because the illuminance is 0.0001 in the case of low light, it usually refers to the light source in the low light environment, which can display a much clearer image than the ordinary camera, and the night vision is clearer.
Sizes	65mm(D)x170mm(L) excluding connector
Connector	MCBH-2-M SS
Storage environment	(-20°C ~+70°C/20 % to 95 % RH)
Working environment	(-10°C ~ +60°C/20 % to 80 % RH)
Working deoth	0-300 m (customized can be max to 6000 m)

PLC Network Receiver



Item	PLC NETWOKR RECEIVER	
Power input	AC85V-245V 50/60HZ	
Power output	DC48V	
Max current	1.2A	
Max capacity	220W	
Speed	200Mbps	
Max distance	600M	
Network port	1*RJ45	
Standard	IEEE802.11a IEEE802.3u IEEE802.3ab	
Compatibility	200Mbps 300Mbps	
Cable required	>2*0.5²	
Shell material	ABS	
Operating temperature	-20 °C -40 °C	
Operating humidity	10%-90%RH	
Operating requency	1.8-30MHZ	
Dimension	125*60*40mm	



Connecting

NETWORK LINE Two core shield power line NVR ETHERNET SWITCH PLC NITWORK RECLIVER REQ meter two core power supply shield line(A area) 150 mater two core power supply shield line(A area) UNDERWATER UNDERWATER

Product Show



Packing List

- 1. Camera
- 2. 10m cable
- 3. PLC Receiver



2MP 20X High Temperature CCTV Camera KDT01(02)



KDT01 high-temperature water-cooled Camera which is made of double-layer stainless steel tubes and cast aluminum end caps. The circulating water achieves cooling effect through the cooling interlayer, and compressed air can be introduced into the front cover to form an air curtain to play a dustproof role. The water-cooled housing has good anti-corrosion and anti-dust ability, and can be used in environments with high temperature and dusty corrosive gases.

♦ Ambient temperature of water-cooled shield: 0 °C ~+300 °C

Compressed air temperature: ≤40 °C; circulating water temperature: ≤35 °C

◆ Pressure: 0.1~0.2Mpa

♦ Flow: 0.1~0.2m³/min

♦ The protection capacity of the water-cooled shield reaches the IP66 standard

Mechanical

Housing	Stainless steel 304
IP	IP66
Cable thread hole	G3/4

Electrical

Voltage	DC12V or PoE or AC100V-240V
Power	15W

Ambient

	KDT02	KDT02
Cooling way	Compressed air	Circulate running water

Temperate resist	-25 to +150 ℃	0 to +250 ℃	
Cooling media pressure	Air flow: 0.4-1.0L/S, less than 35 °C	2800 liter per hour	
air output at the front of window	Support	Support	
Camera			
Image Sensor	1/2.8" progress scan CMOS		
Effective pixel	2MP		
Min. Illumination	Color 0.01Lux B/W: 0.005Lux		
Day&night	Auto/ Color/ BW		
Optical zoom	20X,5.4-108MM		
Effective Pixels	1920*1080		
Angle of View	Horizontal 50.2-2.9 (wide -tele) Vertical 37.9-2.1		
MOD	10mm~1500mm(wide -tele)		
General			
Size	356*138*158mm		
Housing inner size	260*75*75mm (L*W*H)		
Weight	5kg		
Mounted	wall, pole		



Stainless Steel

Wall bracket

10km Long Range 4MP 35x Optical Zoom 640x512 25-75mm Motorized Lens 12um IVS Thermal PTZ Camera

KDY-PTZ4035N-6T2575



- Thermal + Optical Bi-spectrum Heavy Load High Precision Network PTZ Camera
- 640x512 Detector with 25-75mm Motorized Lens Network Thermal Imaging Camera Module
- 4Mp 6~210mm 35x Optical Zoom Starlight Network Zoom Camera Module

Features

> Thermal: 12µm 640×512

> Thermal lens: 25-75mm motor lens

> Visible: 1/1.8" 4MP CMOS

> Visible lens: 6~210mm, 35x optical zoom

> Support tripwire/intrusion/abandon detection

> Support up to 18 color palettes

> 7/2 alarm in/out, 1/1 audio in/out, 1 analog video

> Micro SD Card, IP66

> Support Fire Detect

Specification

Model Number	KDY-PTZ4035N-6T75	KDY-PTZ4035N-6T2575	
Thermal Module			
Detector Type	VOx, uncoole	d FPA detectors	



Max Resol	Max Resolution 640x512				
Pixel Pit	Pixel Pitch 12µm				
Spectral R	Range 8~14μm				
NETD	NETD ≤50mk (@25°C, F#1.0, 25Hz)				
Focal Ler	ngth	75mm 25~75mm			
Field of \	/iew	5.9°×4.7° 5.9°×4.7°~17.6			
F#		F1.0	F0.95~F1.2		
Spatial Reso	olution	0.16mrad	0.16~0.48mrad		
Focus	s	Auto Focus	Auto Focus		
Color Pal	lette	18 modes selectable such as Whitehot, Blackhot, Iron, Rai	l selectable such as Whitehot, Blackhot, Iron, Rainbow.		
	<u> </u>	Optical Module			
Image Se	nsor	1/1.8" 4MP CMOS			
Resolut	ion	2560×1440			
Focal Ler	ngth	6~210mm, 35x optical zoom			
F#		F1.5~F4.8			
Focus M	ode	Auto/Manual/One-shot auto			
FOV		Horizontal: 66°~2.12°			
Min. Illumination		Color: 0.004Lux/F1.5, B/W: 0.0004Lux/F1.5			
WDR	l l	Support			
Day/Night		Manual/Auto			
Noise Redu	uction	3D NR			
		Network			
Network Pro	otocols	TCP, UDP, ICMP, RTP, RTSP, DHCP, PPPOE, UPNP, DDNS, ONVIF,	802.1x, FTP		
Interopera	ability	ONVIF, SDK			
Simultaneous	Live View	Up to 20 channels			
User Manag	gement	Up to 20 users, 3 levels: Administrator, Operator and User			
Brows	wser IE8+, multiple languages				
		Video & Audio			
	Visual	50Hz: 25fps (2592×1520, 1920×1080, 1280×720)			
Main Stream		60Hz: 30fps (2592×1520, 1920×1080, 1280×720)			
	Thermal	50Hz: 25fps (704×576) 60Hz: 30fps (704×480)			
		50Hz: 25fps (1920×1080, 1280×720, 704×576)			
0.1.0:	Visual	60Hz: 30fps (1920×1080, 1280×720, 704×480)			
Sub Stream	The	50Hz: 25fps (704×576)			
	Thermal	60Hz: 30fps (704×480)			
Video Compression		ompression H.264/H.265/MJPEG			
Audio Comp	ression	G.711A/G.711Mu/PCM/AAC/MPEG2-Layer2			
Picture Com	pression	JPEG			
		Smart Features			

Fire Detection	Yes	
Zoom Linkage	Yes	
Smart Record	Alarm trigger recording, disconnection trigger recording (continue transmission after connection)	
Smart Alarm	Support alarm trigger of network disconnection, IP address conflict, full	
Smarernarm	memory, memory error, illegal access and abnormal detection	
Smart Detection	Support smart video analysis such as line intrusion, cross-border, and	
Alarm Linkage	region intrusion Recording/Capture/Sending mail/PTZ linkage/Alarm output	
Alaim Linkage	PTZ	
Pan Range	Pan: 360° Continuous Rotate	
Pan Speed	Configurable, 0.1°~100°/s	
Tilt Range	Tilt: -90°~+40°	
Tilt Speed	Configurable, 0.1°~60°/s	
Preset Accuracy	±0.02°	
Presets	256	
Patrol Scan	8, up to 255 presets per patrol	
Pattern Scan	4	
Linear Scan	4	
Panorama Scan	1	
3D Positioning Power Off Memory	Yes Yes	
Speed Setup	Speed adaptation to focal length	
	Support, configurable in horizontal /vertical	
Position Setup		
Privacy Mask	Yes	
Park	Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan	
Scheduled Task	Preset/Pattern Scan/Patrol Scan/ Linear Scan/Panorama Scan	
Anti-burn Remote Power-off	Yes	
Reboot	Yes	
	Interface	
Network Interface	1 RJ45, 10M/100M Self-adaptive Ethernet interface	
Audio	1 in, 1 out	
Analog Video	1.0V[p-p]/75Ω, PAL or NTSC, BNC head	
Alarm In	7 channels	
Alarm Out	2 channels	
Storage	Support Micro SD card (Max. 256G), hot SWAP	
RS485	1, support Pelco-D protocol	
	General	
Operating Conditions	-40 ℃~+70 ℃ , <95% RH	



Protection Level	IP66, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection, Conform to
	GB/T17626.5 Grade-4 Standard
Power Supply	AC24V
Power Consumption	Max. 75W
Dimensions	250mm×472mm×360mm (W×H×L)
Weight	Approx. 14kg

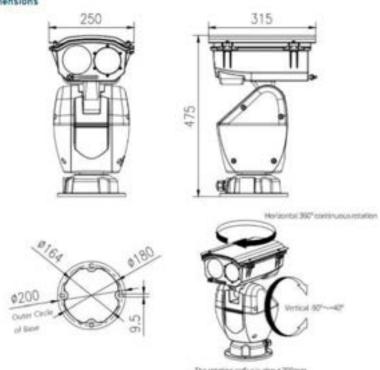
DRI Distance

Target: Human size is 1.8m×0.5m (Critical size is 0.75m), Vehicle size is 1.4m×4.0m (Critical size is 2.3m). The target detection, recognition and identification distances are calculated according to Johnson's Criteria.

The recommended distances of Detection, Recognition and Identification are as follows:

Long	Detect		Detect Recognize		Identify	
Lens	Vehicle	Human	Vehicle	Human	Vehicle	Human
25mm	3194m(10479ft)	1042m(3419ft)	799m(2621ft)	260m(853ft)	399m(1309ft)	130m(427ft)
75mm	9583m(31440ft)	3125m(10253ft)	2396m(7861ft)	781m(2562ft)	1198m(3930ft)	391m(1283ft)

Dimensions



17.3Inch Stainless Steel Explosion Proof LCD Display Monitor



Product features:

17.3 inch 16:9 widescreen, 1920*1080 high-definition resolution, 350cd/m2 brightness (optional outdoor sunlight 1000cd/m2 high brightness), A+ perfect wide temperature industrial-grade LCD display;

Support power-on boot, all-weather uninterrupted operation, backlight life of up to 50,000 hours;

The whole machine is designed in accordance with the IP66 waterproof and dustproof rating, and the interface sockets are all CNLINKO brand aviation plugs; the shell is made of SUS304or SS316L material, which is more durable, corrosion-resistant and resistant to shock and vibration;

Adopt Taiwan EETI solution + industrial-grade resistive touch screen, with good stability, high accuracy and not afraid of dust, water vapor, oil, etc., adapt to various harsh environments (optional non-touch/capacitive touch);

DC 12V power supply to meet industrial field applications (DC 24V/DC 9-36V wide voltage is optional);

The panel (optional back shell) has OSD film buttons to help users adjust the LCD screen to the best use state as an option;

Support various installation methods, wall-mounted installation or desktop installation;

Operating system: support Windows system, Linux system, Android system, etc.

Technical datasheet

	Special performance	Rugged and durable, resistant to corrosion and wear, salt spray, shock and vibration
Structural parameters	Material color	The whole machine is made of SUS30 or SUS316L, stainless steel color (black can be sprayed)
	Ex Mark	Ex mark : Ex d IIC T6 Gb /Ex tD A21 IP68 T80 C
	Design Features	The whole machine is IP67 dustproof and waterproof, power on, SUS304 or

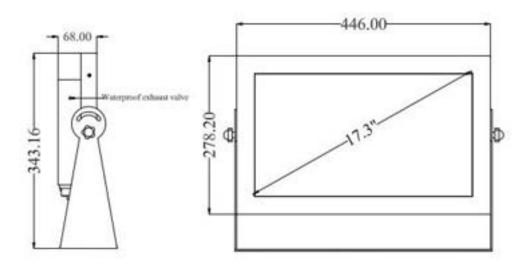


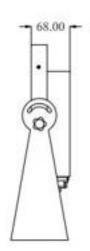
		SUS316L Enclosure
	Menu button	The panel has OSD film buttons, which can adjust the LCD screen to the best use state
	Size	17.3 inch 16:9 LCD display
	Resolution	1920*1080
Display parameters	Brightness	350cd/m2 (optional 1000cd/m2 visible brightness under sunlight)
	Contrast/Viewing Angle	Contrast ratio; 600:1 (Typ.); viewing angle; 80/80/60/80 (Typ.) (CR≥10) (left/right/up/down)
	Touch type	EETI solution + industrial resistive touch screen (optional full-fit capacitive touch screen)
Touch parameter	Material hardness	ITO glass; hardness>=3H
	Click life	>=5 million times
	Touch strength	<=45g~250g
Interface	Display interface	VGA * 1, HDMI*1 (DVI, BNC optional)
parameters (Aviation plug)	Other interfaces	DC IN fastened power terminal (aviation plug), USB touch interface (aviation plug)
	Operating temperature	-20°C~70°C
Environmental parameters	storage temperature	-20°C~70°C
	Relative humidity	10~90%, no condensation
Dimensions	physical dimension	446.0*278.2*68mm
Dimensions	Installation size	100*100mm (VESA bracket wall-mounted installation)
Power support	DC power supply	DC 12V power input (DC 24V/DC 9-36V)
Installation method		VESA bracket/cantilever installation (customized bracket)
Shipping accessories	Standard	12V waterproof power supply + touch cable + touch drive CD + touch pen + VGA cable
Warranty		12 months (longer warranty time optional) warranty
Outer packaging size / gross weight		55.5*46*21.5cm/ 15-20kg

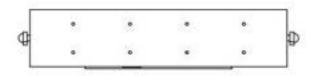
Images &Dimensions:

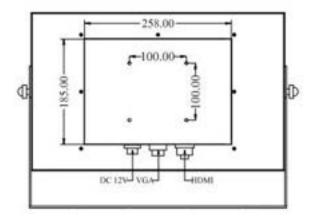












Network Video Recorder

NVR304-X Series



Key Features

- Support Ultra 265/H.265/H.264 video formats
- 16/32-channel input
- Supports mainstream cameras of ONVIF conformance(Profile S, Profile G, Profile T) and RTSP protocols
- Support 2-ch HDMI, 1-ch VGA. HDMI1 and HDMI2 up to 4K (3840x2160) resolution
- HDMI1, HDMI2, VGA independent outputs provided
- Up to 12 Megapixels resolution recording
- Support RAID 1, 5
- 4 SATA HDDs, Up to 10TB for each HDD
- Various fisheye dewarping modes for live view and playback for both web interface and GUI
- ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade

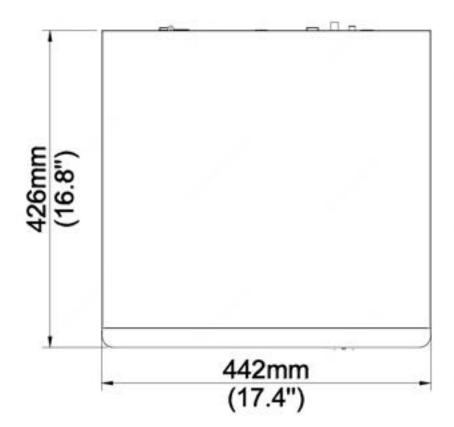
Specifications

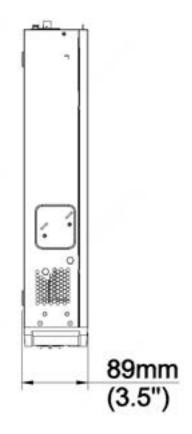
Model	NVR304-16X NVR304-32X						
Video/Audio Input							
IP Video Input	16-ch 32-ch						
Two-way Audio Input	1-ch, RCA						
Network							
Incoming Bandwidth	384Mbps						
Outgoing Bandwidth	384Mbps						
Remote Users	128						
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTP:	S, DNS, DDNS, SNMP, SMTP, NFS					
	IE(IE10/11) for Windows						
	Firefox (version 52.0 and above) for Windows						
Browser	Chrome(version 45 and above) for Windows						
	Edge(version 79 and above) for Windows						
Video / Audio Output	Lage(version / 2 and above) for windows						
Video/Audio Output	VCA.						
HDMI/VGA Output	VGA: 1920x1080p/60Hz, 1920x1080p/50Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz HDMI1/HDMI2(HDMI audio output is not supported): 4K (3840x2160)/30Hz, 1920x1080p/60Hz, 1920x1080p/50Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz						
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720	Dp/D1/2CIF/CIF					
Audio Output	1-ch, RCA						
Audio Compression	G.711A, G.711U						
Synchronous Playback	16-ch						
Liveview display	1/4/6/8/9/16	1/4/6/8/9/16/25/36					
Corridor Mode Screen	3/4/5/7/9/10/12/16	3/4/5/7/9/10/12/16/32					
Snapshot							
FTP/Schedule/Event Snapshot	16-ch snapshot, up to 4K resolution	32-ch snapshot, up to 4K resolution					
Decoding							
Decoding format	Ultra 265, H.265, H.264						
Live view/Playback	12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF						
Capability	2 x 12MP@30, 4 x 4K@30, 8 x 4MP@30, 9 x 4MP@25, 16 x 1080p@30						
Hard Disk							
SATA	4 SATA interfaces						
Capacity	up to 10TB for each HDD						
eSATA	1 eSATA interface						
Disk Group	Support						
Disk Array							
Array Type	RAID 1, 5						
General Alarm							



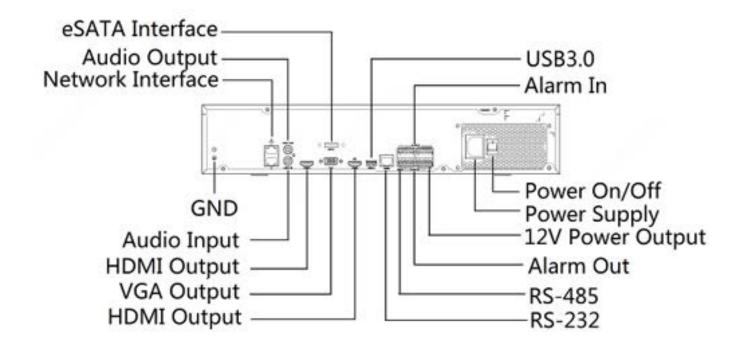
	DATASHEET
General Alarm	Motion, Tampering, Human Body Detection, Video Loss, Alarm input, Audio Detection
Alert Alarm	IP Conflict, Network Disconnected, Disk offline, Disk Abnormal, Illegal Access, Hard disk space low, Hard disk full, Recording/Snapshot Abnormal
External Interface	
Network Interface	2 RJ45 10M/100M/1000M self-adaptive Ethernet Interfaces
USB Interface	Front panel: 2 x USB2.0 Rear panel: 1 x USB3.0
RS232	1
RS485	1
Alarm In	16-ch
Alarm Out	4-ch
General	
Power Supply	100~240 VAC Power Consumption: ≤ 25 W (without HDD)
Working Environment	-10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)
Dimensions (W×D×H)	442mm ×426mm× 89mm (17.4" × 16.8"× 3.5")
Weight (without HDD)	≤ 5.7Kg (12.57lb)
Certification	
Certification	UL CE FCC RoHS WEEE

Dimensions





Rear Panel



24 Gigabit PoE Ports Managed Ethernet Switch UTP7524GE-POE-4GF

24GE PoE+4*GF(SFP), Fast -Ring ,802.3af/at, full Gigabit, L2 Managed 6kV Lightning P



- Provides 24 *Gigabit PoE RJ45 ports, 4* Gigabit uplink SFP ports;
- Provides web-based layer protection.
 and PoE management by simple operation;
- Supports high-speed data forwarding, very suitable for large flow of video data forwarding in security surveillance;
- Supports Fast-Ring;
- Supports temperature-controlled fan;
- Quick Installation, simple operation, convenient for wall/desk/rack installation.

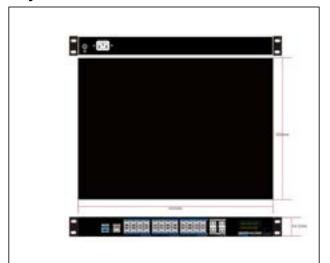


Introduction

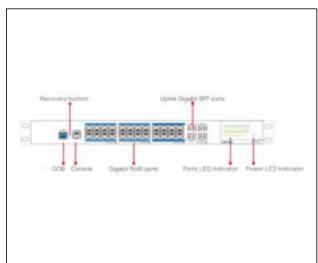
The UTP7524GE-POE-4GF is a L2 managed PoE switch, which provides 24* Gigabit PoE downlink ports, 4* Gigabit SFP uplink ports. The switch comply with IEEE 802.3 af/at (PoE+), the total PoE power budget can be up to 390W which is adequate to power supply for HD IP camera and Gigabit wireless access point, makes it an ideal choice for HD security surveillance network and high-speed wireless network construction projects.

It supports abundant L2 functions such as PoE management, 802.1Q VLAN, DHCP snooping, 802.1x Authentication, Dual IPv4/IPv6 stack, IGMP Snooping, STP/RSTP, Link Aggregation (Dynamic and Static), ACL, Port mirroring, SNMP v1/v2/v3, etc. It also supports multiple configuration modes, such as Web, CLI and SNMP, and multiple access methods, including HTTP, HTTPS, Telnet and SSH V2. Due to the advanced L2 functions such as ACL and MAC binding VLAN function, the switch and compliant devices can be protected against broadcast storms, which guarantee a safe operation. Quality of Service (QoS) ensures stable and smooth data transmission.

Physical Features



Interface drawing





Specification -

Hardware Features:

Item	UTP7524GE-POE-4GF			
Copper Ports	24* 10/100/1000Base-T PoE RJ45(Auto-MDI/MDI-X)			
SFP Ports	4*1000 Base-X SFP(Mini-GBIC)			
Console Port	1*RJ45-R232 serial port(115200, 8, N, 1)			
OOB Port	1*10/100Base-TX RJ45(only used to Web management) default IP:192.168.1.200 name:admin password:admin)			
Init button	Short press:restart; >5s Press: restore factory settings.			
Network Standard	IEEE802.3 , IEEE802.3u, IEEE802.3ab, IEEE802.3Z, IEEE802.3X, IEEE 802.1Q IEEE 802.1p IEEE 802.3ad , IEEE 802.1D, IEEE 802.1X			
Exchange Capacity	56Gbps / non-blocking			
Packet Forwarding Rate	41.7Mpps			
Operation Method	Store and Forward			
Buffer Memory	12Mbit			
MAC Address Table	16k MAC address table with auto learning function			
Jumbo Frame	10k bytes			
PoE Standard	IEEE802.3af 15.4W, IEEE802.3at 30W			
PSE Type	End-span			
Power Pin Assignment	1/2(+), 3/6(-)			
Power Supply	Internal power adapter AC 100-240V 50/60Hz			
Power Consumption	<420W (PoE consumption) PoE budget: 390W			
Lightning protection	6kV Execute: IEC61000-4-5			
ESD	6kV: Contact discharge 8kV: Air discharge Execute: IEC61000-4-2			
Work temperature	-10~50°C			
Storage temperature	-40~85°C			
Humidity	5%~95%(Non-condensation)			
Dimension (L×W×H)	442mm×320mm×44.5mm			
Weight	4.35kg			
Certificates	CE, FCC, ROHS			

Specification -

Software Features:

Item

UTP7524GE-POE-4GF

		Support port isolation					
		Support port rate settings					
		Support port storm suppression					
Interface Management		Support IEEE802.3x flow control					
		Support port traffic statistics					
		Support auto negotiation					
	Logic Interface	Loopback detection					
		VI AN Destition	VLAN based on port, VLAN based on MAC				
		VLAN Partition	Private VLAN, multicast VLAN				
\	/LAN		VLAN intercommunication				
		VLAN Communication	VLAN isolation				
		VLAN Port Type	Access, Trunk, GVRP, QinQ				
		Static MAC					
		MAC Black hole					
ı	MAC		MAC address aging configuration				
		Dynamic MAC	MAC address learning limit				
		Multicast MAC Static Multicast MAC address					
		Dynamic Aggregation					
Link A	ggregation	Static Aggregation					
Loopbac	ck Protection	STP/RSTP, ERPS v1, v2 (G.8032) , y.1731 CCM					
		IP address : Classful IP address, classless IP address					
IP F	eatures	IPv6 address configuration					
_		Host DHCP service	DHCP pool				
	HCP	DHCP relay	DHCP snooping option 82				
		IGMP snooping					
IGMP Features		GMRP					
		Support 802.1p CoS/DSCP priority					
	QoS	Support 8-Level priority management for switching					
		Support WRR, PQ, DRR, WFQ, ACL based on ports and queues					
		Support total power consumption	n control				
PoE Ma	anagement	Support PoE ON/OFF	Support PoE ON/OFF				
		Support single port 30W max. Power change and port output priority					
1		1					

		IEEE 802.1X Port/MAC based authentication, Radius			
	802.1x	Support MAC address auto-learning, aging& filter			
Safety		Support port isolation, port speed-limited			
Character	ACL	Basic ACL, advanced ACL			
	System Log	Local system log management Remote System Log Management			
	Mirroring	Port mirroring			
		Support WEB-based management, including HTTP and HTTPS Support CLI-based management Configuration through Telnet, SSH V2			
		Tracert v4			
	anagement& tenance	SNMPv1/v2/v3 management SNMP Trap			
		Support TFTP-client			
		NTP/SNTP			
		Link layer discovery protocol (LLDP)			
		Dual IPv4/IPv6 stack			
		Ping IPv6, WEB IPv6			
II	Pv6	ICMPv6			
		DHCPv6 snooping, DHCPv6 client			
		IPv6 ACL, IPv6 SSH			

Package List-

Designation	Quantity
UTP7524GE-POE-4GF	1
AC Power Line	1
Accessories	1
User Manual	1

Related Products -

Designation	Model
24 Ports Gigabit PoE & 4*10Gigabit Managed Ethernet Switch	UTP7624GE-PoE-L3
24 Gigabit Ports & 4*10Gigabit Managed Ethernet Switch	UTP7624E-L3



Mini Sub-PC



Product Highlight

- 2 Intel i211 Gigabit RJ45 LAN and 6 COM(2 COM can change to RS485/422 from BIOS).
- Support VGA + HDMI dual display output synchronously.
- One embedded SIM card slot onboard for 3G/4G Wi-Fi.
- Full Aluminum Alloy Silver color shell for heat dissipation, Exquisite production craft on outside design.
- Fanless system without cooling fan, fit for industrial grade field, work as long as 24 hours.
- Low consumption TDP only 15W and can be mounted on the wall.
- Support AWAL, Wake On LAN, RTC functions.

CPU	Onboard Intel Core i5-6360u, 2.0GHz max3.1GHz,Intel Iris Grahphics540,TDP 15W				
TDP	15W				
Motherboard	14.5 x 14.7 cm				
BIOS	American Megatrends Inc. 5.6.5				
Chipset	Intel Sunrise Point-LP, Intel Skylake-U				
Memory	2 x SO-DIMM DDR3L Slot, Support 4GB/8GB/16GB				
ivieillory	DDR3L 1333/1600, LPDDR3 1333/1600				
OS	Windows 7/Windows 8/Windows 10/Linux				
PXE	YES				
Audio	Intel Skylake HDMI @ Intel Sunrise Point-LP PCH - High Definition Audio Controller				
Audio	Realtek ALC662 @ Intel Sunrise Point-LP PCH - High Definition Audio Controller				
Network	2 x Onboard Intel i211 Gigabit Network Connection				
IVELWOIK	10/100Mbps/1000Mbps BaseT LAN				
Video	Intel(R) Iris(R) Graphics 540				
Input/output port					
Switch	1 x Power On/Off Switch				
Power	1 x 12V DC In				

LED	2 x LED	
USB	4 x USB2.0, 4 x USB3.0	
Display	1 x VGA, 1 x HDMI	
LAN	2 x RJ45 Intel Giga LAN	
СОМ	6 x COM RS232(3 line) ports, COM1 COM2 can change to RS485/422 from BIOS	
SIM	1 x embedded SIM card slot onboard	
GPIO	1 x GPIO	
Audio	1 x MIC, 1 x SPK	
Storage		
MSATA	1 x M-SATA3.0 slot for MSATA SSD, support 6Gb/s	
SATA	1 x SATA3.0 slot for SATA HDD or SSD, support 6Gb/s	
Wi-Fi		
N 4	1 x mini PCIE-half port for Wi-Fi/Bluetooth module	
Module	1 x mini PCIE-full port for 3G/4G module	
Antenna	2 x inner RF cables and 2 x external antennas	
Power and Worl	king Environment	
Input	DC100-240V AC/50-60Hz	
Output	DC +12V~+19V, recommend 12V/5A	
Operating Temperature	-20/+75 Centigrade	
Storage Temperature	-40/+80 Centigrade	
Relative Humidity	0%~90% (non-condensing)	
Product Dimens	ion & Details	
Size	213*255*66mm	
Weight	Net 1.6kg, Gross 2.5kg	
Shell	Silver color aluminum alloy(any customized color for bulk order)	
Mounting	4 Mounting holes on case	
Cooling Mode	Fanless	
Functions	AWAL, Wake On LAN, RTC	
Package		
Content		
Standard	1xMini PC, 1xPower Adapter, 1xPower Cord, 1xScrews Bag	
Optional	Wi-Fi antennas, 1xHDMI cable, 1xUser Manual, 1xLong Screws Bag	

Dimensions:



Long Distance PoE Extenders EX101LDP-T/R

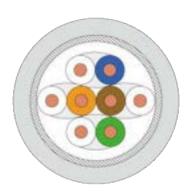


Model	EX101LDP-T/R				
Product	1 in 1 out ultra long distance Poe network extender				
Supporting instructions	LD long-distance ports need to be used with LD PoE switches or in pairs				
	1*10 / 100M RJ45 Poe power receiving input port				
Fixed port	1*10 / 100M RJ45 LD Poe power supply output ports				
	Support ieee802.3af/at Poe in MAX 30W; (optional Poe + + / BT, MAX65W)				
Poe In port	Support 40-57v passive Poe in				
PoE Pin	1245+ 3678-				
	Poe in+ Poe out				
	100M type, max distance 150+150 meters, max power out 16W				
Poe extender distance	10M type, max distance 250+250 meters, max power out 13W				
	LD 100M type, max distance 150+500 meters, max power out 12W				
	LD 10M type, max distance 250+800 meters, max power out 6W				
	1: default configuration is no power				
Supporting power supply	2: Optional 12V 0.5A power as network extender				
	3: Optional 52V 0.6A power can be used as a single port Poe switch				
Watt	Power Consumption : ≤0.5W				
DC lacut	As Network Extender: DC12V MAX 0.5A				
DC Input	As PoE Network Extender : DC37-57V MAX 0.6A				
LED Indicator	Llinkr: Lan network on llink				
LED IIIdicator	Speed: lan speed 100M				
	Supports IEEE 802.3az-2010 (EEE)				
Network Protocol	100Base-TX IEEE 802.3u Compliant				
Network Flotocol	10Base-T IEEE 802.3 Compliant				
	IEEE 802.3af/at				
Transmission Mode	Direct forwarding (full wirespeed)				
Operating Temperature/Humidity	-10∼+55°C; 5%∼90% RH Non coagulation				
Storage Temperature/Humidity	-40∼+75°C; 5%∼95% RH Non coagulation				
Product size (L*W*H)	112mm*41mm*26mm				
N.W/G.W (kg)	0.15kg(1 pairs)				
Installation	Desktop, wall mounted				
Lightning protection level	3KV 8/20us;				
Lightning protection level	IP30				
0-45-4-	CE mark, commercial; CE/LVD EN60950;				
Certificate	FCC Part 15 Class B; RoHS;				
Warranty	Whole device for 1 year(Accessories not included)				



Shipboard Data Communication CAT6A Cable

Type: CAT6A solid S/FTP SHF1 cable



Application

High performance Ethernet cable for shipboard and offshore installations. Apply to general wiring system, Including 10/100/1000 Base-T, 10G, ATM & Token Ring. This range of screened cables is designed to support Cat 6A Link and Channel performance. With internationally defined Physical and Electrical performance up to 500MHz

Construction

Conductor: Solid Bare Copper, AWG 23(Ø0.56mm, 0.246mm²) Insulation: Foam Polyethylene(Ø1.32mm) No. of pair: Insulation Color: White Blue /Blue, White Orange /Orange White Green /Green, White Brown /Brown Individual screen: Per pair 100% Al-/polyester tape Overall screen Tinned copper braid Outer Sheath: SHF1 Outer Sheath color: Grey or per request Outer Diameter(nom.): 8.3 mm

Electrical characteristic (@20°C)

Conductor DC resistance: 95 Ohm/km Velocity factor: 74% Conductor resistance unbalance within pair: ≤2% Conductor resistance unbalance between pair: ≤4% insulation resistance: ≥5000 MΩ.m Capacitance unbalance to earth at 800Hz or 1000Hz: ≤160 pF/100m Dielectric strength(conductor/conductor): 1.0KV d.c for 1min 1.0KV d.c for 1min Dielectric strength(conductor/screen): Transfer Impedance: Grade I



Transmission Frequency(MH _Z)	1	4	10	16	20	31.25	62.5	100	200	250	400	500
Attenuation dB/100m	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	27.6	31.1	40.1	45.3
Return Loss dB/100m	20	23	25	25	25	23.6	21.5	20.1	18.0	17.3	17.3	17.3
NEXT dB/100m	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	40.8	39.3	36.3	34.8
PSNEXT dB/100m	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	33.3	31.8
ELFEXT dB/100m	68	56	48	43.9	42	38.1	32.1	28	22	20	16	14
PSELFEXT dB/100m	65	53	45	40.9	39	35.1	29.1	25	19	17	13	11
Delay ns/100m	570	552	545	543	542	540	539	538	537	536	536	536
Skew ns/100m		≤45										

Standards

BS EN 50288-4, TIA-568.2-D, UL Subject 444, IEC 61156-5, ISO/IEC11801, IEC61156-6.

Environmental properties and Fire Performances

Halogen free IEC 60754-1&2

Smoke-density IEC 61034-1&2

Flame retardant IEC 60332-3-22 and IEC 60332-1-2

Oil resistant Mineral oils IRM 902 (IEC 60811-2-1) 70 °C /4hours or 23 °C /7days

Diesel- IRM 903(IEC 60811-2-1) $70\,^{\circ}$ C/4hours or 23 $^{\circ}$ C /7days

Mechanical Characteristics

Temperature (operation) -40 to +85 °C Temperature (installation) -15 to +50 °C Minimum bending radius (operation) 10 x O.D. Minimum bending radius (installation) 20 x O.D.

Marking

Nominal weight

ZTC TEXEL CAT6A S/FTP 4 x 2 x 0,246mm² AWG 23 solid IEC30662-3-22 SHF1 DNV & ABS <BATCH NO.> <Meter Marking>

Product Code

66J56-008



75 kg/km

CAT6 UTP 4P 4*2*0.56 Hight Speed Cable

Weather Proof OUTDOOR CAT6 UTP 4P 4*2*0.56

Model: AXT6-SFT2 OUTDOOR



Features:

- Complies with Category 5E UL444, ANSI/TIA/EIA
 568B & ISO/IEC 11801 standard.
- Supports transmission of digital and analogue voice, data and video signal.
- Rated Temperature: -30° to +75°
- •Water Proof ,Weather Proof ,Corrosion Proof ,stretching resistance

Application:

- 100 Base T (IEEE 802.3)
- Fast Ethernet (IEEE 802.3u)
- 100vg-AnyLAN (IEEE 802.12)
- Token Ring (IEEE 802.5)
- TP-PMD (ANSI X3T9.5)
- 100 Mbps CDDI
- ATM 155 Mbps



Cable Construction:

Inner conductor	Material	Bare Copper
inner conductor	Diameter	OD: 7.0±0.2mm
	Material	Color-coded PE (Polyethylene)
Insulation(Dielectric)	Thickness	≥ 0.18mm
	Diameter	1.05 ± 0.03mm
Inner cheeth	Material	New PVC
Inner sheath	Color	Gray
Outer Jacket	Material	New PE
Outer Jacket	Color	Black
		Pair 1 : Blue, White / Blue
	N/A	Pair 2 : Orange, White / Orange
		Pair 3 : Green, White / Green
		Pair 4 : Brown, White / Brown
Twisted pair		