



Features

- ATEX, IECEx certified
- Suitable for hazardous locations:
 - Gas: Zone 1, Zone 2 (Group IIA, IIB, IIC, T1–T6)
 - Dust: Zone 21, 22
- Explosion proof marking: Ex d II CT6 Gb/ Ex tD A21 IP68 T80°C
- Material: Stainless steel 304 (also available in 316L stainless steel)
- Optional electropolished or corrosion resistant paint finish
- Enclosure Protection: IP68
- Ultra wide angle lens, 360° panoramic image
- High quality image with 12MP, 1/1.7" CMOS sensor
- Max 4000*3000 resolution
- Embedded infrared light, 360° fill-in light, up to 10m (33ft) IR distance
- 2D/3D DNR, ROI, ONVIF Conformance
- Ultra265, H.265, H.264, MJPEG
- DC12V, PoE. Wide voltage range of ±25% DC
- Applications: refineries, chemical plants, oil extraction, gas production, fireworks production, grain production and storage, petrol stations

Specifications

CAMERA	
Resolution	12MP
Sensor	1/1.7" CMOS
Min. Illumination	Colour: 0.03 Lux (F2.0, AGC ON); 0 Lux with IR
Day/Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1–1/100,000 s
S/N	>52 dB
WDR	DWDR

LENS					
Focal Length		1.8 mm			
Iris Type		Fixed			
Iris		F2.0			
Field of View		360°			
Zoom		Fixed			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	1.8 mm	43.8 m (143.7 ft)	17.5 m (57.4 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)
ILLUMINATOR					
Illumination Distance (IR)		10 m (32.8 ft)			
Wavelength		850 nm			
IR On/Off Control		Auto/Manual			
VIDEO					
Video Compression		Ultra 265; H.265; H.264; MJPEG			
H.264 Code Profile		Baseline profile, Main profile, High profile			
Video Stream		Triple streams			
Main Stream		Fisheye View: 12MP (4000 x 3000) @ 20 fps; 3000 x 3000 @ 20 fps; 2560 x 2560 @ 25 fps; Panorama View: 12MP (4000 x 3000) @ 20 fps; 3000 x 2000 @ 20/25 fps; 3000 x 1500 @ 20/25 fps; PTZ View: 1920 x 1080 @ 20/25 fps			
Sub Stream		Fisheye View: 2000 x 1500 @ 20 fps; 2000 x 2000 @ 25 fps			
Third Stream		Fisheye View: D1 (720 x 576) @ 20/25 fps; CIF (352 x 288) @ 20/25 fps			
Video Bitrate		128 Kbps–16 Mbps			
U-Code		Support			
OSD		Up to 8 OSDs			
Privacy Mask		Up to 4 areas			
ROI		Up to 8 areas			

Specifications

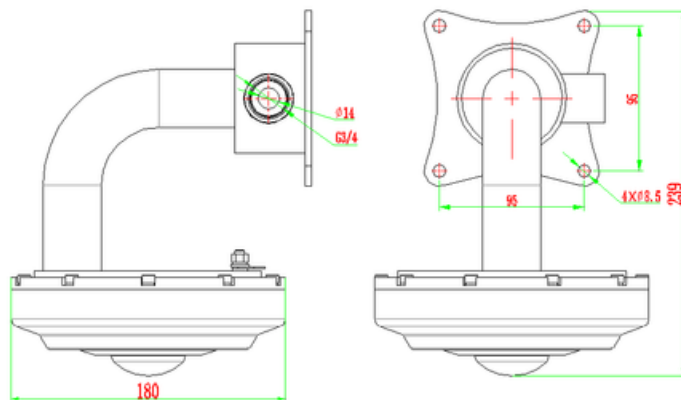
LIVE VIEW DISPLAY	
Hardware Decoding	Ceiling mount: fisheye view, fisheye + 4PTZ, horizontal panorama view, vertical panorama view; Table mount: fisheye view, fisheye + 4PTZ, horizontal panorama view, vertical panorama view; Wall mount: fisheye view, fisheye + 4PTZ, panorama view
Software Decoding	Ceiling mount: fisheye view, 360° panorama + 1PTZ, 180° panorama view, fisheye + 3PTZ, fisheye + 4PTZ, fisheye + 8PTZ, 360° panorama + 6PTZ; Table mount: fisheye view, 360° panorama + 1PTZ, 180° panorama view, fisheye + 3PTZ, fisheye + 4PTZ, fisheye + 8PTZ, 360° panorama + 6PTZ; Wall mount: fisheye view, 180° panorama view, 180° panorama view + 3PTZ, 180° panorama view + 4PTZ, 180° panorama view + 8PTZ
IMAGE	
White Balance	Auto; Outdoor; Fine Tune; Sodium Lamp; Locked; Auto2
Digital Noise Reduction	2D/3D DNR
Smart IR	Support
Flip	Normal; Flip Vertical; Flip Horizontal; 180°
Dewarping	N/A
HLC	N/A
BLC	Support
Defog	Digital Defog
INTELLIGENT	
Smart Intrusion Prevention	Cross line detection, Intrusion detection
Statistical Analysis	Heat map (working with management platform)
EVENTS	
Basic Detection	Motion detection; Tampering alarm; Audio detection
General Function	Watermark; IP address filtering; Access policy; ARP protection; RTSP authentication; User authentication; HTTP authentication

AUDIO	
Audio Compression	G.711U; G.711A
Audio Bitrate	64 Kbps
Two-way Audio	Support
Suppression	Support
Sampling Rate	8 KHz
STORAGE	
Edge Storage	Micro SD, up to 256 GB
Network Storage	ANR; NAS (NFS)
NETWORK	
Protocols	IPv4; IPv6; IGMP; ARP; TCP; UDP; DHCP; PPPoE; RTP; RTSP; RTCP; RTMP; DNS; DDNS; NTP; FTP; HTTP; HTTPS; SMTP; 802.1x; SNMP; QoS
Compatible Integration	ONVIF (Profile S, Profile G, Profile T); API; SDK
User/Host	Up to 32 users; 3 user levels: Administrator, Common user, and Operator
Security	Password protection; Strong password; HTTPS encryption; Export operation logs; Basic and digest authentication for RTSP; Digest authentication for HTTP; TLS 1.2; WSSE and digest authentication for ONVIF
Client	EZView; EZLive; EZStation
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above
INTERFACE	
Audio I/O	1 Input: impedance 35kΩ; amplitude 2V [p-p]; 1 Output: impedance 600Ω; amplitude 2V [p-p]
Alarm I/O	2/1
Serial Port	1 channel RS485 interface
Network	1 x RJ45 10/100 M Base-TX Ethernet

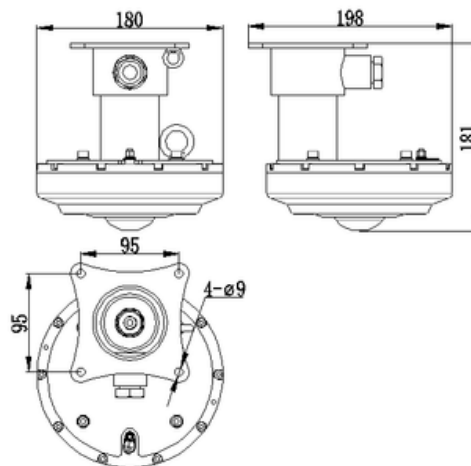
Specifications

CERTIFICATION	
Certification	ATEX, IECEx certified
Explosion Proof Certification	DNV 22 ATEX 24383X; IECEx DNV22.0019X
ATEX Explosion Proof Marking	With fill light: II 2 G Ex db op is IIC T6 Gb II 2 D Ex tb op is IIIC T80 °C Db Without fill light: II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T80 °C Db
IECEx Explosion Proof Marking	With fill light: Ex db op is IIC T6 Gb Ex tb op is IIIC T80°C Db Without fill light: Ex db IIC T6 Gb Ex tb IIIC T80°C Db
GENERAL	
Power	DC 12V±25%, PoE (IEEE 802.3af)
Power Consumption	Max. 9.6 W
Dimensions (Ø x H)	Φ180 mm x 239 mm (7.1" x 9.4")
Net Weight	5.2 kg (11.5 lb)
Working Environment	Temperature: -40°C to +60°C (-40°F to +140°F) Humidity: ≤95% RH
Storage Environment	Temperature: -35°C to +60°C (-31°F to +140°F) Humidity: ≤95% RH
Ingress Protection	IP68
Vandal Resistant	IK10
Reset Button	Supported
Material	Stainless Steel 304; Optional with corrosion-proof paint
Bracket	Wall bracket Ceiling bracket

Drawings



With wall bracket



With ceiling bracket