

Features

- ATEX, IECEx Certified
- Applicable for Gas Zone 1, Zone 2, Dust Zone 21, 22
- Certified for the latest standards IEC/EN60079
- Stainless steel 304 or 316L enclosure
- Surface optional electro-polished or painting
- Weather Proof IP68 (1.2 m, 45 min), IP66, IPX8 (2 m, 2 h)
- Option voltage: AC100-240V or AC24V or DC24V or PoE++
- Strong tempered glass, fit for hydrofluoric acid area
- Intelligent window defroster design
- Auto temperature adjust kit for aggressive area
- High precision wiper, support user-defined
- Fit for various brand cameras
- Wall, pole, ceiling or corner mounted way



CZ100-A/D(F)



CZ100-B/C(F)

Application

CZ100-□□□ is a ZUOAN designed classic explosion-proof camera, which can load various camera. The explosion proof camera can apply for Zone 1 and Zone 2 hazardous areas that explosive mixture of group IIA, IIB, IIC, T1~T6 gases, vapors and air may exist, Zone 21 and Zone 22 hazardous areas that explosive dust may exist. It's applicable for refining and chemical industry, oil extraction, gas production, fireworks production, grain production and storage, petrol station and so on.



Changzhou Zuoan Electronics Co., Ltd.

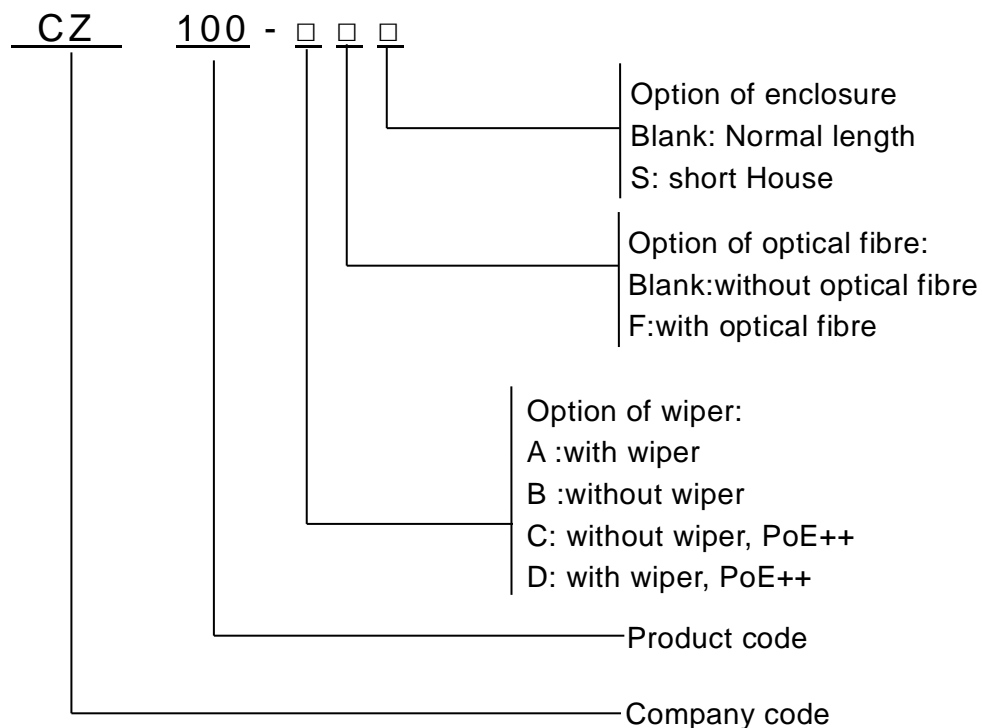
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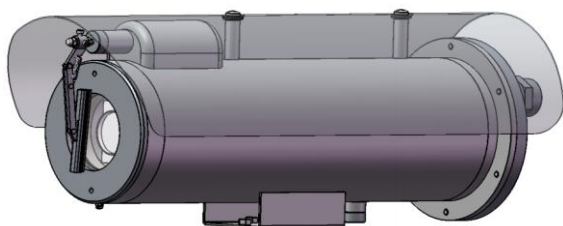
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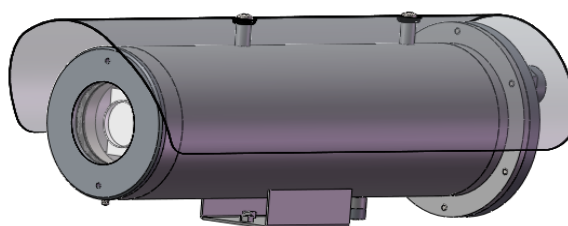
CZ100-□□□ EXPLOSION PROOF FIXED CAMERA



Models: CZ100-A, CZ100-B, CZ100-C, CZ100-D, CZ100-AF, CZ100-BF, CZ100-CF, CZ100-DF, CZ100-AS, CZ100-BS, CZ100-CS, CZ100-DS, CZ100-AFS, CZ100-BFS, CZ100-CFS, CZ100-DFS



CZ100-A/D(F)



CZ100-B/C(F)



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Specification

Camera Module	
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.05 Lux @ (F1.6, AGC ON); B/W: 0.01 Lux @ (F1.6, AGC ON)
Resolution and Frame Rate	Main Stream 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720) Sub-Stream 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288); 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) Third Stream 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288); 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.264/H.265
Audio Compression	G.722.1, G.711alaw, G.711ulaw, MP2L2, G.726, PCM
White Balance	auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB, Locked WB
Gain Control	Auto/Manual
SNR	>52 dB
3D DNR	yes
BLC	yes
Regional Focus	yes
Shutter	1/1 s to 1/30,000 s
Day & Night	Auto/Color/BW/Triggered by Alarm Input/Scheduled-Switch
Digital Zoom	12x
Privacy Mask	up to 8 masks
Focus	auto, semi-auto, manual

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Regional Exposure	yes
Day/Night Switch	ICR
Video Bit Rate	32 Kbps to 16384 Kbps
Heartbeat	yes
Exposure Mode	auto, iris priority, shutter priority, manual
Lens	
Focal Length	4.8 mm to 120 mm, 25x optical
Zoom Speed	Approx. 3.6 s (Optical, Wide-Tele)
Horizontal FOV	57.6° to 2.5° (Wide-Tele)
Aperture	F1.6 to F3.5
Function	
Image Enhancement	120 dB WDR, HLC, BLC, EIS
Smart Encoding	low bit rate, ROI
Exception Detection	illegal login
Power-off Memory	yes
Smart Detection	intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection
Face Capture	yes
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, Bonjour
API	Open-ended API, ONVIF, PSIA, CGI, Hikvision SDK, Third-party management platform, ISUP, Hik-Connect
Web Browser	IE 10-11, Chrome 57+, Firefox 52+, Safari 12+
Simultaneous Live View	Up to 20 channels
User	Up to 32 users. 3 levels: Administrator, Operator and User
Security Measures	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access





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Electrical	
Voltage	AC100V ~ AC240V 50/60Hz or AC24V 50/60Hz DC24V or PoE++ (48 V d.c.)
Power consumption	≤36W
Surge Protect	Optional, TVS6000V surge protect
Optical Fiber output	multi-mode single fiber or single mode single fibre Tx1310, Rx1550nm, FC connector
Optical Video signal	1-way video output
Optional network signal	RJ45
Optical Audio	1-way input, 1-way output
Optical Alarm	2-way alarm input, 1-way alarm output
Address code	0/1
On-board Storage	Micro SD/Micro SDHC/Micro SDXC card, up to 256 GB
Trail cable	Option 1: power+CAT Option 2: power+RS485+coaxial cable Option 3: power+CAT+audio+alarm+RS485+coaxial cable Option 4: power+CAT+audio+alarm+fiber cable(FC connector)
Certification	
Certificate	Presafe 17 ATEX 11326X, IECEx PRE18.0012X
ATEX Certificate Mark	Without optical fibre version:  II2G Ex db IIC T6 Gb  II2D Ex tb IIIC T80 °C Db With optical fibre version:  II2G Ex db op pr IIC T6 Gb  II2D Ex tb op pr IIIC T80 °C Db
ATEX Standard	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-28:2015 EN 60079-31:2014

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Ex Certificate Mark	Without optical fibre: Ex db IIC T6 Gb Ex tb IIIC T80°C Db With optical fibre: Ex db op pr IIC T6 Gb Ex tb op pr IIIC T80°C Db
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Ex Standard	IEC 60079-0:2017 IEC 60079-1:2014-06 IEC 60079-28:2015 IEC 60079-31:2013
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Mechanical

Housing	Stainless steel 304 or 316L
Surface	Optional electro-polish or painting
Ingress protection	IP68 (1.2 m, 45 min) IP66, IP68 (2 m, 2 h)
Cable thread hole	2pcs M25×1.5 (or M27*1.25)

Environment

Power Consumption	Static: 5 W, Dynamic: 7 W
Ambient temperature	-40°C to +60°C for products of types CZ100-□□ with normal length -40°C to +58°C for products of types CZ100-□□S with short enclosure/cylinder
Air pressure	80Kpa to 110Kpa
Relative Humidity	≤95% (no condensation)

General

Model	CZ100-A/D(F)	CZ100-B/C(F)
Sun-shield	Yes	Yes
Wiper	Yes	No
Overall dimension	524*179*215mm	524*179*208mm
Net Weight	14kg	12.5kg

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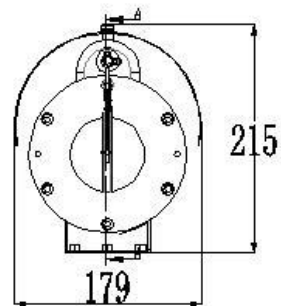
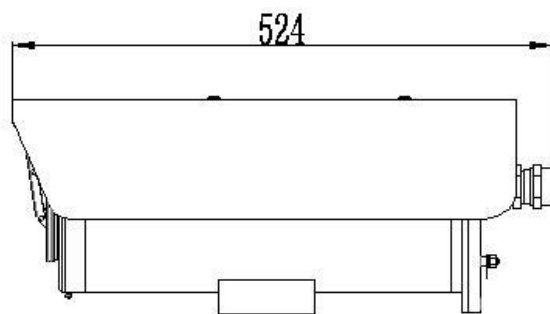
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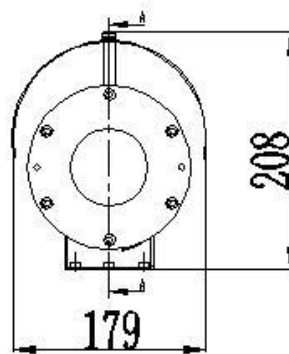
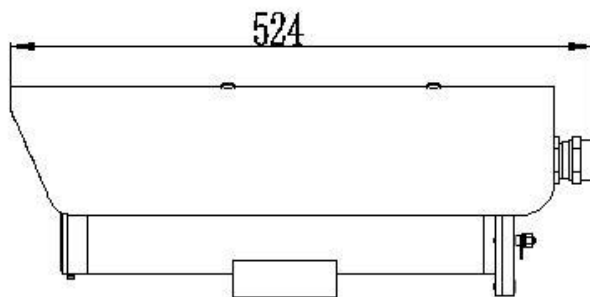
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Dimension



CZ100-A/D(F)



CZ100-B/C(F)

Relatives

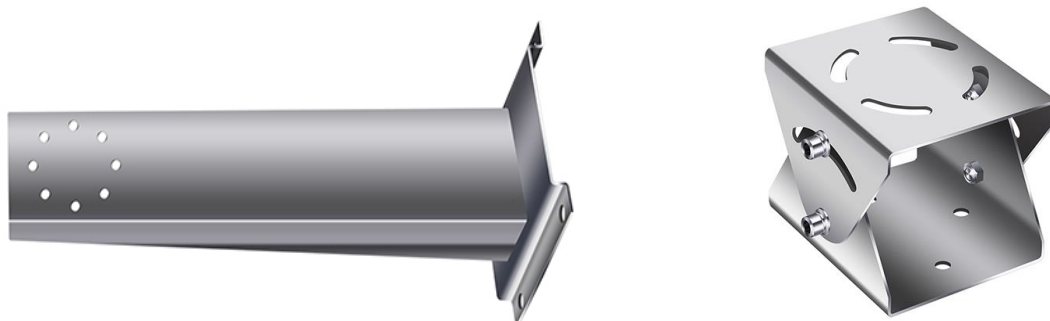


CZ300 ATEX Ex Optical Box



ZAEX02 ATEX Ex glands

ZAZ100B Wall bracket with mount adapter



General

Material	Stainless steel 304 or 316L	
Max Loading	20kg	
Gross Weight	2.5kg	

Corner bracket & Pole mount adapter



ZAZ100-C corner bracket



ZAZ100-PMB Pole mount adapter

General

Material	Stainless steel 304 or 316L	
Max Loading	100kg	
Gross Weight	6kg (ZAZ100-C)	7.1kg (ZAZ100-PMB)

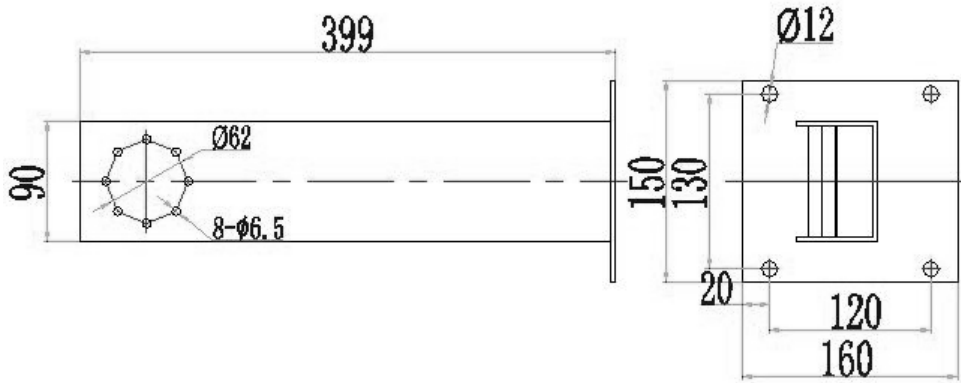
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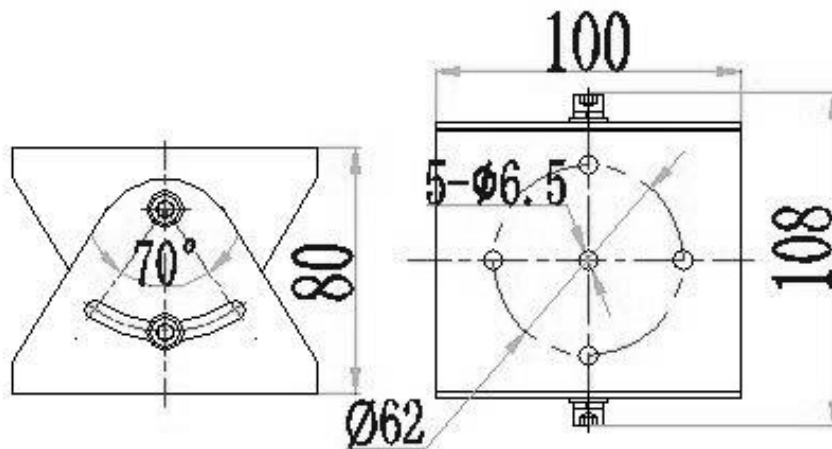
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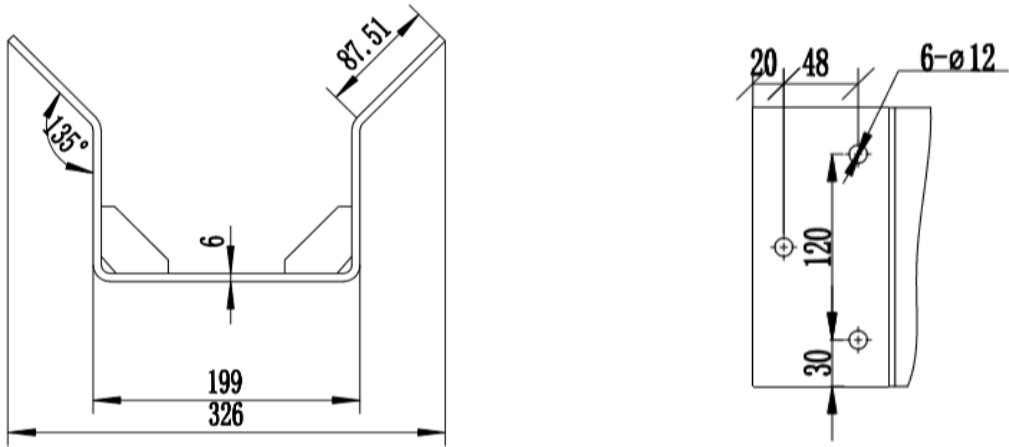
Drawings



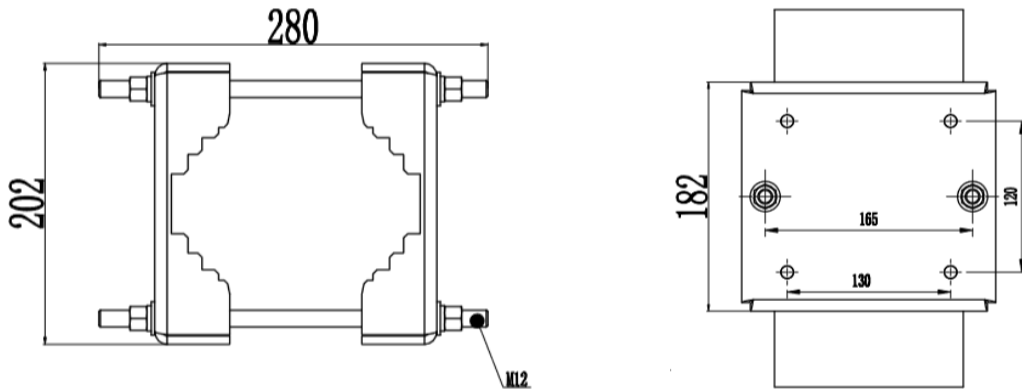
General type ZAZ100B Wall bracket



ZAZ100W Mount adapter



ZAZ100C corner bracket



ZAZ100-PMB pole mounted bracket