

## Features

- ATEX, IECEx Certified;
- Applicable for Gas Zone 1, Zone 2, Class II A, IIB, IIC, T1-T6 group)  
Dust Zone 21, 22.
- Certified for the latest standards IEC/EN60079 (2014)
- Stainless steel 304 or 316L enclosure
- Surface optional electro-polished or painting
- Weather Proof IP68(1.2m/45min)
- Wide voltage input: AC100-240V or AC24V
- 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 mounted way



CZ100-A



CZ100-B

## 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.



# CZ100-□ EXPLOSION PROOF FIXED CAMERA

## MECHANICAL

Material: Stainless steel 304/316L

Ingress protection: IP68

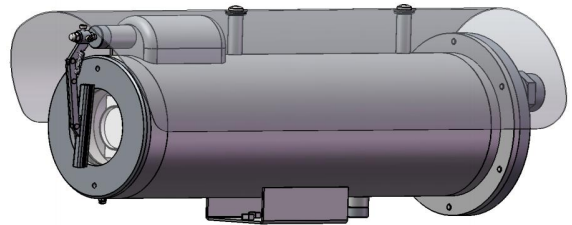
Cable glands: M25x1.5, or M27x1.25

Cable entry: 2pcs

Dimension: see fig

Net Weight: CZ100-A, 14kg; CZ100-B, 12.5kg.

Mount: wall, pole (or customer tailored)



CZ100-A

## ELECTRICAL

Voltage: 100~240V AC or 24V AC; Max. 1.5A

Power: ≤36W (without heat, fan)

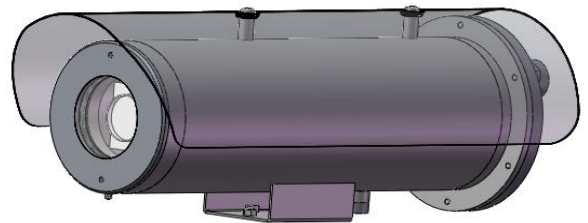
## EX-PROOF MARKING

Explosion proof marking:

CE 2460 Ex II 2G Ex db II C T6 Gb,

Ex II 2D Ex tb is IIIC T80 °C Db

Standards: IEC/EN60079



CZ100-B

## ENVIRONMENT

Ambient temperature: -40℃~+60℃

Atmosphere pressure: 80kPa~120kPa

Relative humidity: ≤95%RH (+25℃)

## ACCESSORIES

Wall Bracket: ZAZ100B

Ex Junction Box: ZA-JXD4

Ex Control Box: CZ300



**Certificate**

|                       |                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ATEX Certificate Mark |  2460  II 2G Ex db IIC T6 Gb,<br> II 2D Ex tb IIIC T80 °C Db |
| Certificate           | Presafe 17 ATEX 11326X, IECEx PRE18.0012X                                                                                                                                                                                                                                                                       |
| Standards             | IEC/EN60079                                                                                                                                                                                                                                                                                                     |

**Mechanical**

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

**Electrical**

|                         |                                       |
|-------------------------|---------------------------------------|
| Voltage                 | AC100V~AC240V or AC24V                |
| Power                   | 15W/25W (with thermostat)             |
| Surge Protect           | Optional, TVS6000V surge protect      |
| Optical Fiber output    | Optional, multimode or single mode    |
| 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                                   |
| Trail cable             | 2m integrated cable                   |

**Ambient**

|                     |                        |
|---------------------|------------------------|
| Ambient temperature | -25°~+60°/-40°C~+60°C  |
| Air pressure        | 80Kpa to 110Kpa        |
| Relative Humidity   | ≦95% (no condensation) |

**Communication**

|                    |                          |
|--------------------|--------------------------|
| Communication type | RS485                    |
| Protocol           | Pelco-D, Pelco-P         |
| Communicate Rate   | 2400~19200bps adjustable |
| 485 Communication  | Support                  |

**General**

|                   |               |               |
|-------------------|---------------|---------------|
| Model             | CZ100-A       | CZ100-B       |
| Sun-shield        | Yes           | Yes           |
| Wiper             | Yes           | No            |
| Overall dimension | 524*179*215mm | 524*179*208mm |
| Net Weight        | 14kg          | 12.5kg        |

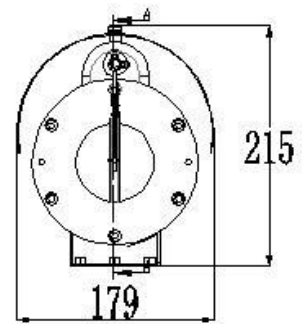
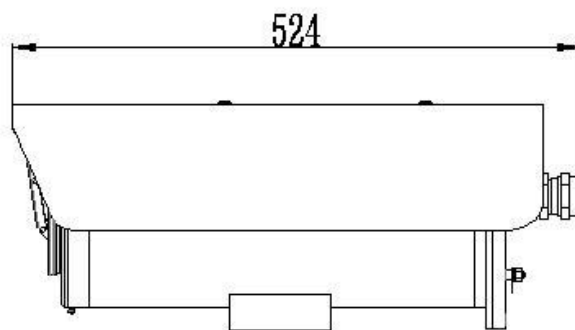


| DAY & NIGHT ANALOG ZOOM CAMERA |                                                        |                                                    |
|--------------------------------|--------------------------------------------------------|----------------------------------------------------|
| Image Sensor                   | 1/4-type EXview HAD™ CCD (Progressive Scan)            |                                                    |
| Effective pixel                | 440,000 pixels (PAL), 380,000 pixel (NTSC)             |                                                    |
| Min. Illumination              | 0.7lx (typical)(F1.4, 50IRE)                           |                                                    |
| Shutter Time                   | 1/1 to 1/10,000 s, 22 steps                            |                                                    |
| Day&Night                      | Auto ICR                                               |                                                    |
| Horizontal resolution          | 500TVL (color), 520TVL (B&W)                           |                                                    |
| S/N ratio                      | >50dB (AGC off)                                        |                                                    |
| Lens                           |                                                        |                                                    |
| Focal Length                   | 18x optical zoom f=4.1mm wide ~73.8(tele)              | 36x optical zoom f=3.4mm wide~122.4mm(tele)        |
| Angle of View                  | 48.0° (wide end) to 2.8° (tele end)                    | 57.8° (wide end) to 1.7° (tele end)                |
| Min. Working Distance          | 10 mm* (wide) ~ 800 mm (tele)<br>*Default: 290 mm      | 10 mm* (wide) ~ 1500 mm (tele)<br>*Default: 320 mm |
| Zoom Speed                     | Approx. 3s(Optical, Wide-Tele)                         |                                                    |
| Day & Night                    | ICR                                                    |                                                    |
| Function                       |                                                        |                                                    |
| Focus Mode                     | Auto/Manual/One touch                                  |                                                    |
| Exposure Mode                  | Auto/Aperture Priority/Shutter Priority/Manual         |                                                    |
| Day & Night Mode               | Auto/Color/BW                                          |                                                    |
| Shutter Time                   | 1/50(1/60) sec~ 1/10,000 sec                           |                                                    |
| White Balance                  | Auto /Indoor/Outdoor/Manual/auto tracking              |                                                    |
| BLC                            | ON/OFF                                                 |                                                    |
| Privacy                        | Off/on                                                 |                                                    |
| Exposure Compensation          | 10 levels adjustable                                   |                                                    |
| Gain                           | Auto/manual                                            |                                                    |
| Gain Limitation                | 16 levels adjustable                                   |                                                    |
| Contrast                       | 8 levels adjustable                                    |                                                    |
| Saturation                     | 8 levels adjustable                                    |                                                    |
| Mirror                         | Off/no                                                 |                                                    |
| Slow shutter                   | X256 MAX                                               |                                                    |
| Anti-shake                     | Off/ on                                                |                                                    |
| Digital WDR                    | ON/OFF, 15 levels adjustable                           |                                                    |
| Image Setting                  | Saturation, Brightness, Contrast, Sharpness adjustable |                                                    |
| Lens Initialization            | Internal                                               |                                                    |
| External connection            | 9 Pin FFC                                              |                                                    |

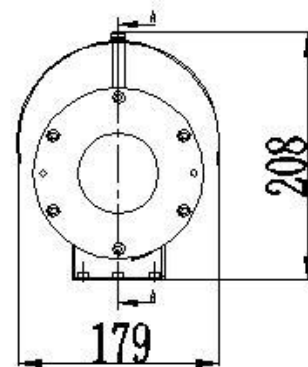
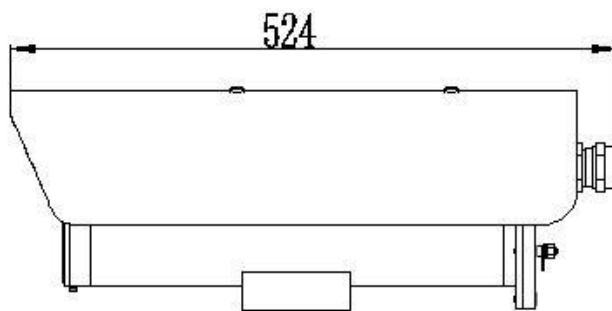
## DAY & NIGHT NETWORK ZOOM CAMERA

|                                 |                                                                                                                            |                               |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Image Device                    | 1/2.8" Progressive Scan CMOS                                                                                               |                               |
| Effective Pixels<br>/Resolution | 50HZ:25fps(1920x1080) 60HZ:30fps(1920x1080)<br>50HZ:25fps(1280x720) 60HZ:30fps(1280x720)                                   |                               |
| Optical zoom                    | 20X ,4.7-94mm                                                                                                              | 30X, 4.5-135mm                |
| Digital Zoom                    | 12X                                                                                                                        |                               |
| Aperture Range                  | F1.6-F3.5                                                                                                                  | F1.6-F4.4                     |
| Angle of view                   | 61.4-29 degree (wide -tele)                                                                                                | 65.1-2.34 degree (wide -tele) |
| Min. Working distance           | 10mm-1500mm(wide-tele)                                                                                                     |                               |
| Zoom speed                      | Approx 3s (optical, wide-tele)                                                                                             |                               |
| Day&night                       | ICR                                                                                                                        |                               |
| Focus mode                      | Auto/manual/one touch                                                                                                      |                               |
| Day&night mode                  | Auto/color/BW                                                                                                              |                               |
| Shutter Time                    | 1/1sec-1/30,000 s                                                                                                          |                               |
| White balance                   | Auto 1/Auto 2/Indoor/Outdoor/Manual/Sodium<br>Lamp/Fluorescent Lamp                                                        |                               |
| BLC                             | ON/OFF                                                                                                                     |                               |
| Exposure compensation           | 10 levels adjustable                                                                                                       |                               |
| Gain                            | 16 levels adjustable                                                                                                       |                               |
| Gain limitation                 | 16 levels adjustable                                                                                                       |                               |
| DNR                             | 3D DNR                                                                                                                     |                               |
| mirror                          | support                                                                                                                    |                               |
| Digital WDR                     | ON/OFF, 15 levels adjustable                                                                                               |                               |
| Imaging setting                 | Saturation, brightness, contrast, sharpness adjustable                                                                     |                               |
| Video compression               | H.264 main profile/MJPEG                                                                                                   |                               |
| Video bit rate                  | 32kbps-16mbps                                                                                                              |                               |
| Audio compression               | G.722.1/G.711-a law/G.711-u law/MP2L2/G.726                                                                                |                               |
| Imaging setting                 | Zoom camera module function can be adjustable by client<br>software ore web browser                                        |                               |
| alarm                           | Motion detection, tampering alarm, storage full, storage<br>exception                                                      |                               |
| protocol                        | TCP/IP, HTTP, DHCP, DDNS, RTP, RTSP, PPPoE, SMTP,<br>NTP, UPnP, SNMP, FTP, 802.1*, QoS, HTTPS, IPv6(SIP,<br>SRTP optional) |                               |
| standard                        | ONVIF, PSIA, CGI, ISAPI                                                                                                    |                               |
| Communication interface         | 1 RJ45 10M/100M self-adaptive Ethernet interface, 1 RS-485.                                                                |                               |
| Video output                    | Dual core 1Vp-p Composite Output (75Ω)                                                                                     |                               |
| Lens value                      | Distance: 10mm-1500mm(Wide-Tele)<br>Angle: 58.3-3.2 degree(Wide-Tele)                                                      |                               |
| S/N ratio                       | More than 52dB                                                                                                             |                               |
| Minimum illumination            | Color: 0.05Lux @ (F1.6, AGC ON)<br>B/W: 0.01Lux @ (F1.6, AGC ON)                                                           |                               |

## Dimension



**CZ100-A**



**CZ100-B**

## Relatives



**CZ300 ATEX Ex Optical Box**



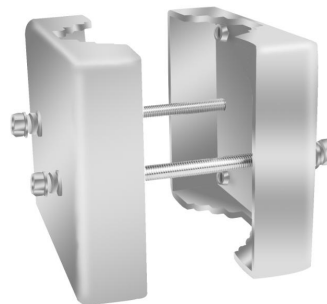
**ZAEX02 ATEX Ex glands**



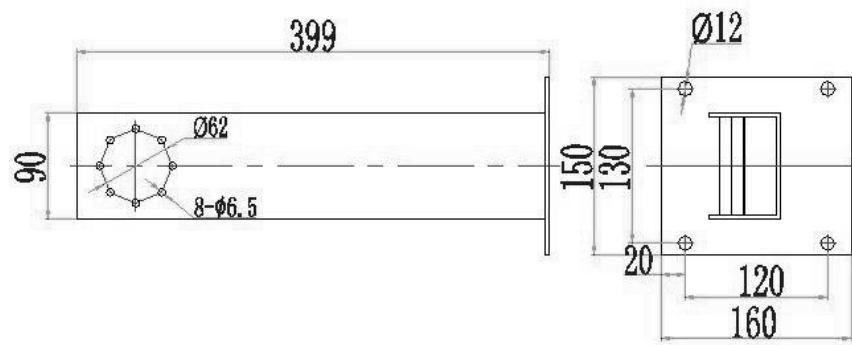
**ZAZ100B Wall bracket with mount adapter**



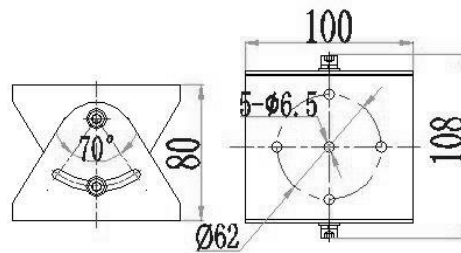
**ZAZ100-C corner bracket**



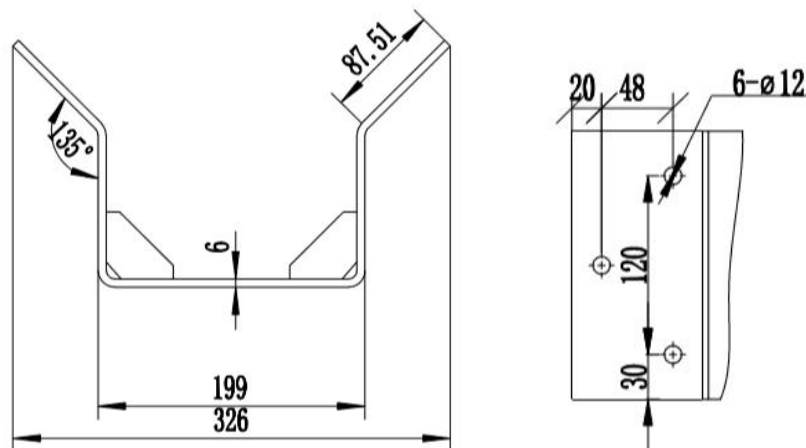
**ZAZ100-PMB Pole mount adapter**



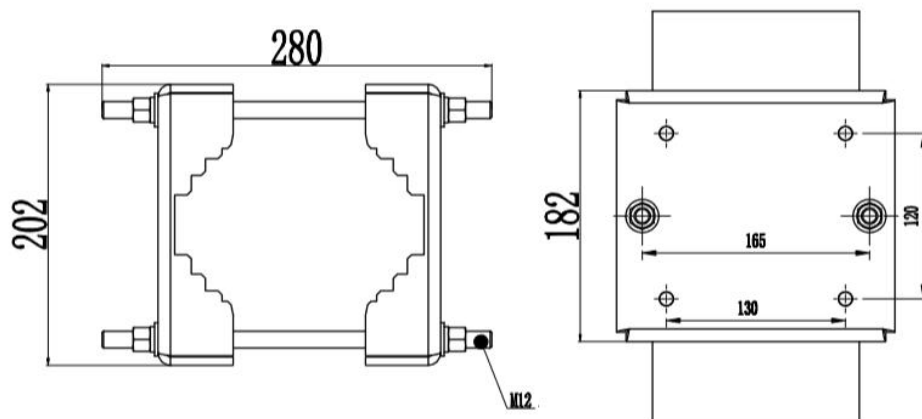
**General type ZAZ100B Wall bracket**



**ZAZ100W Mount adapter**



**ZAZ100C corner bracket**



**ZAZ100-PMB pole mounted bracket**