

# E-PTZ448-Z32<sup>ELITE</sup>

4MP Network PTZ Camera

## Accessories

Included:

PFB305W



DC24V / 2.5A



Optional:

PFA111



PFA140



PFB300C



PFB301C



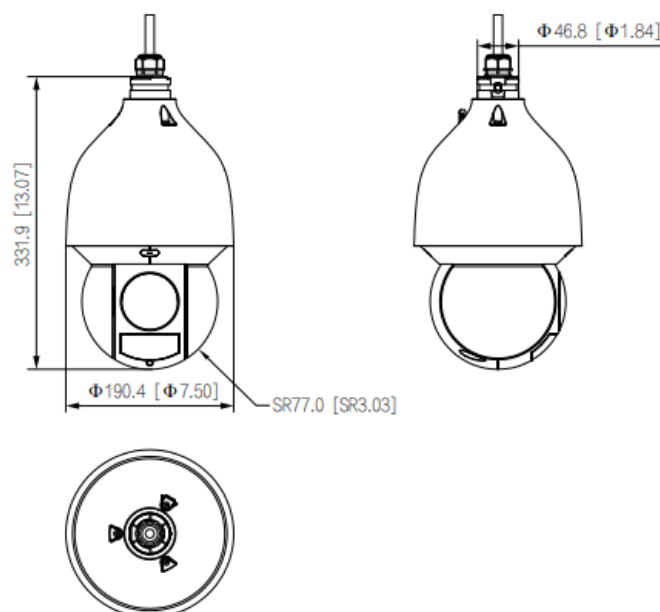
PFA120



PFA150



## Dimensions mm (inch)



## Installation Method

| Wall Mount<br>PFB305W+PFA120           | Ceiling Mount<br>PFA111+PFB300C | Ceiling Mount<br>PFA111+PFB301C                 |
|--|---------------------------------|---|
|  |                                 |   |
| Pole Mount(Vertical)<br>PFB305W+PFA150 | Corner Mount<br>PFB305W+PFA151  | Pole Mount(Horizontal)<br>PFA111+PFB300C+PFA150 |
|  |                                 |   |

## Technical Specification

## Camera

|                            |  |
|----------------------------|--|
| Image Sensor               | 1/2.8" CMOS                                |
| Pixel                      | 4 MP                                       |
| Max. Resolution            | 2560 (H) × 1440 (V)                        |
| ROM                        | 4 GB                                       |
| RAM                        | 1 GB                                       |
| Electronic Shutter Speed   | 1/1 s–1/30,000 s                           |
| Scanning System            | Progressive                                |
| Min. Illumination          | Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 |
| Illumination Distance      | 150 m                                      |
| Illuminator On/Off Control | Zoom Prio; Manual; Smart IR                |
| Illuminator Number         | 4 (IR)                                     |

## Lens

|                      |   |         |           |          |
|----------------------|---|---------|-----------|----------|
| Focal Length         | 4.8 mm–154 mm                                     |         |           |          |
| Max. Aperture        | F1.6–F4.0   |         |           |          |
| Field of View        | H: 55.8°–2.4°;<br>V: 31.9°–1.3°;<br>D: 63.7°–2.7° |         |           |          |
| Optical Zoom;        | 32×   |         |           |          |
| Focus Control        | Auto; semi-auto; manual                           |         |           |          |
| Close Focus Distance | 0.8 m–5.0 m                                       |         |           |          |
| Iris Control         | Fixed   |         |           |          |
| DORI Distance        | Detect  | Observe | Recognize | Identify |
|                      | 2 124 m   | 839 m   | 425 m     | 212 m    |

## PTZ

|                      |   |
|----------------------|---|
| Pan/Tilt Range       | Pan: 0° to 360° endless<br>Tilt: –15° to +90°, auto flip 180° |
| Manual Control Speed | Pan: 0.1°/s–300°/s<br>Tilt: 0.1°/s–200°/s                     |
| Preset Speed         | Pan: 400°/s; Tilt: 300°/s                                     |
| Preset               | 300   |
| Tour                 | 8 (up to 32 presets per tour)                                 |
| Pattern              | 5   |
| Scan                 | 5   |
| Power-off Memory     | Yes   |
| Idle Motion          | Preset; Pattern; Tour; Scan                                   |
| PTZ Protocol         | DH-SD Pelco-P/D (auto recognition)                            |

## Intelligence

|                            |  |
|----------------------------|--|
| IVS (Perimeter Protection) | Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification  |
| Video Metadata             | Detects motor and non-motor vehicles, faces and human bodies. It also performs tracking, takes snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor vehicles, detecting up to 10 attributes for them. |
| Auto Tracking              | Yes  |
| SMD                        | SMD 4.0  |

|                 |   |
|-----------------|---|
| Face Detection  | Supports face detection, face bounding box, capturing snapshots, uploading face snapshots, enhancing face images, and selecting a preferred image among a group of snapshots. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. The attributes are gender, age, glasses, mask, mustache and expressions. The expressions are angry, sad, hate, scared, surprised, calm, happy and confused. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots. |
| People Counting | Supports tripwire for people counting at entrances and exits, counting the number of people staying in an area and queuing in an area, and displaying and exporting reports based on the day, week and month.   |
| Acupick         | Uses deep learning algorithms and works with back end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.  |
| Auto Patrol     | It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets.  |

## Video

|                          |   |
|--------------------------|---|
| Video Compression        | Smart H.265+; H.265; Smart H.264+; H.264; H.264B; H.264H; MJPEG (Sub Stream 1)  |
| Streaming Capability     | 3 streams   |
| Resolution               | 4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) |
| Video Frame Rate         | Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps) |
| Bit Rate Control         | CBR/VBR   |
| Video Bit Rate           | H.264: 3 kbps–20480 kbps<br>H.265: 3 kbps–20480 kbps  |
| Day/Night                | Auto (ICR)/Color/B/W  |
| BLC                      | Yes   |
| WDR                      | 120 dB  |
| White Balance            | Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp  |
| Gain Control             | Auto; manual  |
| Noise Reduction          | 2D NR; 3D NR  |
| Motion Detection         | Yes   |
| Region of Interest (RoI) | Yes   |
| Image Stabilization      | Electronic (EIS)  |
| Defog                    | Electronic  |
| Digital Zoom             | 16×   |
| Image Rotation           | 180°  |
| Privacy Masking          | Up to 24 areas can be set, with up to 8 areas in the same view  |
| S/N Ratio                | ≥ 55 dB   |

## Audio

|                   |   |
|-------------------|---|
| Audio Compression | PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 |
|-------------------|---|

## Technical Specification

## Network

|                     |  |
|---------------------|--|
| Network Port        | RJ-45 (10/100 Base-T)  |
| Network Protocol    | HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; RTMP; TCP |
| Interoperability    | ONVIF (Profile S&G&T); CGI   |
| Streaming Method    | Unicast/Multicast  |
| User/Host           | 20 (total bandwidth: 64 M)   |
| Storage             | FTP; Micro SD card (512 GB); NAS   |
| Browser             | IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari  |
| Management Software | Smart PSS; DSS; EasyViewer Pro; Easy4ip; IVSS  |
| Mobile Client       | iOS; Android   |

## Certification

|                |  |
|----------------|--|
| Certifications | CE: EN55032/EN55024/EN50130-4<br>FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1 |
|----------------|--|

## Port

|               |   |
|---------------|---|
| Alarm I/O     | 2/1   |
| Audio I/O     | 1/1   |
| Two-way Audio | Yes   |
| Alarm Linkage | Capture; preset; tour; pattern; recording; triggering on-off value output; audio; send email  |
| Alarm Event   | Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection |

## Power

|                   |   |
|-------------------|---|
| Power Supply      | 24 VDC, 2.5 A ( $\pm 25\%$ )<br>PoE +(802.3at)        |
| Power Consumption | Basic: 13 W<br>Max.: 22 W (illuminator + PTZ working) |

## Environment

|                       |  |
|-----------------------|--|
| Operating Temperature | -40 °C to +70 °C   |
| Operating Humidity    | $\leq 95\%$  |
| Protection            | IP67; IK10; TVS 6000 V lightning proof; surge protection; voltage transient protection |

## Structure

|                    |                               |
|--------------------|-------------------------------|
| Product Dimensions | 332 mm $\times$ $\Phi$ 190 mm |
| Net Weight         | 4,7 kg                        |
| Gross Weight       | 8,0 kg                        |