

# ERBU

# E-D428-AFS<sup>PRO</sup> 6

4MP Full Color Dual Light Dome Network Camera



## Accessories

PFA136



PFB203W



PFA109



PFB220C



PFA156



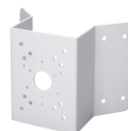
PFA150



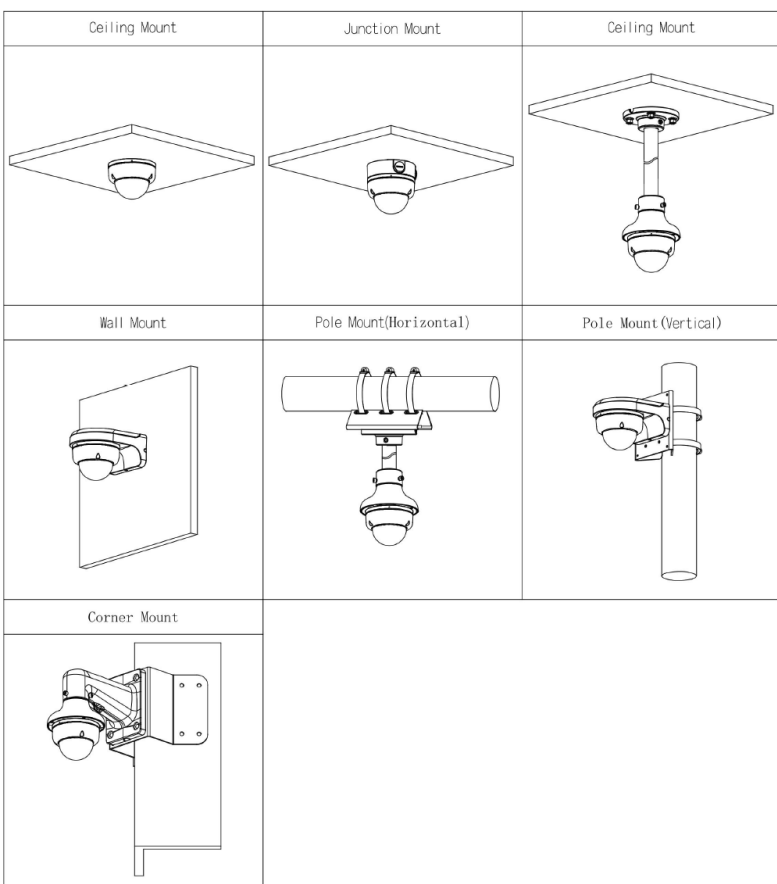
PFB305W



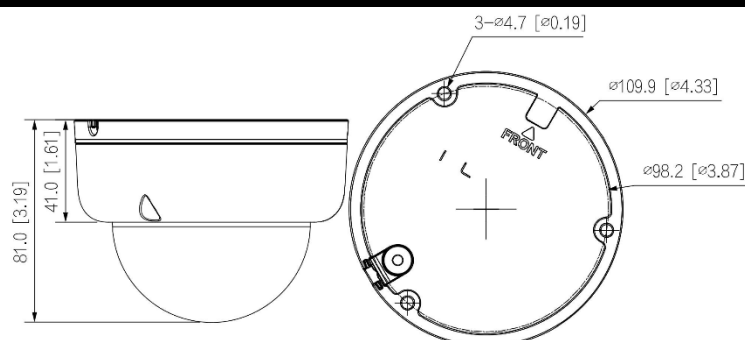
PFA151



## Installation Method



## Dimensions mm (inch)



## Technical Specification

## Camera

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| Image Sensor               | 1/3" CMOS                                                                                |
| Max. Resolution            | 2560 (H) × 1440 (V)                                                                      |
| ROM                        | 128 MB                                                                                   |
| RAM                        | 128 MB                                                                                   |
| Scanning System            | Progressive                                                                              |
| Electronic Shutter Speed   | Auto/Manual 1/3 s–1/100,000 s                                                            |
| Min. Illumination          | 0.008 lux@F1.6 (Color, 30 IRE)<br>0.0008lux@F1.6 (B/W, 30 IRE)<br>0 lux (Illuminator on) |
| S/N Ratio                  | >56 dB                                                                                   |
| Illumination Distance      | Up to 30 m (IR)<br>Up to 30 m (Warm light)                                               |
| Illuminator On/Off Control | Auto; Manual                                                                             |
| Illuminator Number         | 3 (IR LED); 4 (Warm light)                                                               |
| Angle Adjustment           | Pan: 0° – 355°<br>Tilt: 0° – 65°<br>Rotation: 0° – 355°                                  |

## Lens

|                      |                                     |         |           |          |
|----------------------|-------------------------------------|---------|-----------|----------|
| Lens Type            | Fixed-focal                         |         |           |          |
| Lens Mount           | M12                                 |         |           |          |
| Focal Length         | 2.8 mm                              |         |           |          |
| Max. Aperture        | F1.6                                |         |           |          |
| Field of View        | H: 95.5°;<br>V: 53.4°;<br>D: 110.7° |         |           |          |
| Iris Control         | Fixed                               |         |           |          |
| Close Focus Distance | 1 m                                 |         |           |          |
| DORI Distance        | Detect                              | Observe | Recognize | Identify |
|                      | 61.6 m                              | 24.6 m  | 12.3 m    | 6.2 m    |

## Intelligence

|                 |                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| Human Detection | Support the classification and accurate detection of human                                                      |
| Smart 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     | Main stream: 2560 × 1440@ (1–25/30 fps)<br>Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps)<br>*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. |
| Streaming Capability | 2 streams                                                                                                                                                                                                                                           |
| Resolution           | 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)                                                                                 |
| Bit Rate Control     | VBR; CBR                                                                                                                                                                                                                                            |
| Video Bit Rate       | H.264: 32 kbps–4096 kbps;<br>H.265: 12 kbps–4096 kbps                                                                                                                                                                                               |
| Day/Night            | Auto (ICR)/Color/B/W                                                                                                                                                                                                                                |

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| HLC                      | Yes                                                                 |
| BLC                      | Yes                                                                 |
| WDR                      | 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                                                                 |
| Smart Dual Light         | Yes                                                                 |
| Image Rotation           | 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) |
| Mirror                   | Yes                                                                 |
| Privacy Masking          | 4 areas                                                             |

## Audio

|                   |                             |
|-------------------|-----------------------------|
| Built-in MIC      | Yes, built-in Mic           |
| Audio Compression | G.711a; G.711Mu; PCM; G.726 |

## Alarm

|             |                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm Event | Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception; |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|

## Network

|                     |                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Port        | RJ-45 (10/100 Base-T)                                                                                                                                  |
| SDK and API         | Yes                                                                                                                                                    |
| Network Protocol    | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Registration                 |
| Interoperability    | ONVIF (Profile S & Profile T); CGI                                                                                                                     |
| User/Host           | 6 (Total bandwidth: 24 M)                                                                                                                              |
| Storage             | FTP                                                                                                                                                    |
| Browser             | IE; Chrome; Firefox                                                                                                                                    |
| Management Software | Smart PSS Lite; DSS; DMSS                                                                                                                              |
| Mobile Client       | iOS; Android                                                                                                                                           |
| Security            | Digest; WSSE; Account lockout; Security logs; Generation and importing of X.509 certification; HTTPS; Trusted boot; Trusted execution; Trusted upgrade |

## Certification

|                |                                                                                  |
|----------------|----------------------------------------------------------------------------------|
| Certifications | CE-LVD: EN62368-1;<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU |
|----------------|----------------------------------------------------------------------------------|

**Technical Specification****Power**

|                   |                                                                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Power Supply      | 12 VDC ( $\pm 30\%$ ); PoE (802.3af)                                                                                            |
| Power Consumption | Basic: 2.3 W (12 VDC); 3.1 W (PoE);<br>Max.: 6.8 W (12 VDC); 7.9 W (PoE) (H.265 + intelligence on + WDR+ illuminator intensity) |

**Environment**

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Operating Temperature | $-40\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$ |
| Operating Humidity    | $\leq 95\%$ (RH), non-condensing                               |
| Storage Temperature   | $-40\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$ |
| Storage Humidity      | $\leq 95\%$ (RH), non-condensing                               |
| Protection            | IP67; IK08                                                     |

**Structure**

|                    |                                  |
|--------------------|----------------------------------|
| Casing Material    | Metal + Plastic                  |
| Product Dimensions | 81.0 mm $\times$ $\Phi$ 109.9 mm |
| Net Weight         | 0.33 kg                          |
| Gross Weight       | 0.48 kg                          |