

# DH-F4C-PV

## 4MP Smart Dual Light Active Deterrence Fixed-focal Wi-Fi Bullet Network Camera



### Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

### Functions

#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

#### Day/Night

Dahua Day/Night function provides color image when illumination is adequate; when illuminance is inadequate, it switches night mode and provides white and black image. It can guarantee that the network camera can work normally when illuminance changes.

#### Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

#### Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2560 × 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, and the max. illumination distance is 30 m.
- SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access and SMD(human).
- Supports max.256 G Micro SD card; built in Mic.
- 12 VDC power supply.
- IP67 protection.
- Supports human detection.



### Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

### Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

| Technical Specification    |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| Camera                     |                                                                                          |
| Image Sensor               | 1/3" CMOS                                                                                |
| Max. Resolution            | 2560 (H) × 1440 (V)                                                                      |
| ROM                        | 16 MB                                                                                    |
| RAM                        | 128 MB                                                                                   |
| Scanning System            | Progressive                                                                              |
| Electronic Shutter Speed   | Auto/Manual 1/3 s–1/100,000 s                                                            |
| Min. Illumination          | 0.005 lux@F1.6 (Color, 30 IRE)<br>0.0005 lux@F1.6(B/W, 30 IRE)<br>0 lux (Illuminator on) |
| S/N Ratio                  | >56 dB                                                                                   |
| Illumination Distance      | Up to 30 m (98.53 ft) (IR)<br>Up to 30 m (98.53 ft) (Warm light)                         |
| Illuminator On/Off Control | Auto                                                                                     |
| Illuminator Number         | 2 (IR LED); 2 (Warm light)                                                               |
| Angle Adjustment           | Pan: 0° –360°<br>Tilt: –60°–45°                                                          |

|                      |        |                                                                   |                       |                      |                     |
|----------------------|--------|-------------------------------------------------------------------|-----------------------|----------------------|---------------------|
| Lens                 |        |                                                                   |                       |                      |                     |
| Lens Type            |        | Fixed-focal                                                       |                       |                      |                     |
| Lens Mount           |        | M12                                                               |                       |                      |                     |
| Focal Length         |        | 2.8 mm;3.6 mm                                                     |                       |                      |                     |
| Max. Aperture        |        | F1.6                                                              |                       |                      |                     |
| Field of View        |        | 2.8 mm: H: 98°; V: 55°; D: 115°<br>3.6 mm: H: 78°; V: 41°; D: 94° |                       |                      |                     |
| Iris Control         |        | Fixed                                                             |                       |                      |                     |
| Close Focus Distance |        | 2.8 mm: 1 m (3.28 ft)<br>3.6 mm: 1.7 m (5.58 ft)                  |                       |                      |                     |
| DORI Distance        | Lens   | Detect                                                            | Observe               | Recognize            | Identify            |
|                      | 2.8 mm | 61.2 m<br>(200.78 ft)                                             | 24.5 m<br>(80.38 ft)  | 12.2 m<br>(40.03 ft) | 6.1 m<br>(20.01 ft) |
|                      | 3.6 mm | 85.4 m<br>(280.18 ft)                                             | 34.2 m<br>(112.20 ft) | 17.1 m<br>(56.10 ft) | 8.5 m<br>(27.89 ft) |

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| Intelligence    |                                                            |
| Human Detection | Support the classification and accurate detection of human |

|                   |                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video             |                                                                                                                                                                                                                                  |
| Video Compression | H.264B; H.264; H.264H; H.265                                                                                                                                                                                                     |
| Smart Codec       | Smart H.265+; Smart H.264+                                                                                                                                                                                                       |
| Video Frame Rate  | Main stream: 2560 × 1440@(1–25/30 fps);<br>sub stream: 640 × 480@(1–25/30 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. |
| Stream Capability | 2 streams                                                                                                                                                                                                                        |
| Resolution        | 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720)                                                                                                                                    |

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| Bit Rate Control         | CBR/VBR                                                      |
| Video Bit Rate           | H.264: 32 kbps–4096 kbps;<br>H.265: 12 kbps–4096 kbps        |
| Day/Night                | Auto(ICR)/Color/B/W                                          |
| BLC                      | Yes                                                          |
| HLC                      | Yes                                                          |
| WDR                      | DWDR                                                         |
| White Balance            | Auto; natural; street lamp; outdoor; manual; regional custom |
| Gain Control             | Auto                                                         |
| Noise Reduction          | 3D NR                                                        |
| Motion Detection         | OFF/ON (4 areas, rectangular)                                |
| Region of Interest (RoI) | Yes (4 areas)                                                |
| Smart Illumination       | Yes                                                          |
| Image Rotation           | 0°/180°                                                      |
| Mirror                   | Yes                                                          |
| Privacy Masking          | 4 areas                                                      |

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

|             |                                                                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm       |                                                                                                                                                                                     |
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; abnormal audio input; intensity change; SMD (human) |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network             |                                                                                                                                                                                                    |
| Network Port        | RJ-45 (10/100 Base-T)                                                                                                                                                                              |
| Wi-Fi               | IEEE 802.11b/g/n 2.4–2.4835 GHz, 2.4 G                                                                                                                                                             |
| SDK and API         | Yes                                                                                                                                                                                                |
| Network Protocol    | IPv4; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; DHCP; DNS; NTP; Multicast; RTMP; P2P                                                                                                                   |
| Interoperability    | ONVIF (Profile S/Profile G); CGI                                                                                                                                                                   |
| User/Host           | 20 (Total bandwidth: 64 M)                                                                                                                                                                         |
| Storage             | Micro SD card (support max. 256 GB)                                                                                                                                                                |
| Browser             | IE; Chrome; Firefox                                                                                                                                                                                |
| Management Software | Smart PSS; DSS; DMSS                                                                                                                                                                               |
| Mobile Client       | iOS;Android                                                                                                                                                                                        |
| Cyber Security      | Configuration encryption; trusted execution; Digest; security logs; HTTPS; trusted upgrade; WSSE; trusted boot; account lockout; generation and importing of X.509 certification; video encryption |

|                |                                                                                                                                   |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Certification  |                                                                                                                                   |
| Certifications | CE-LVD: EN62368-1;<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU;<br>CE-RED: Radio Equipment Directive 2014/53/EU |

Power

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| Power Supply      | 12 VDC                                                                       |
| Power Consumption | Basic: 2.2W (12 VDC);<br>Max. (H.265+ illuminator intensity): 6.6 W (12 VDC) |

Environment

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating Temperature | −40 °C to +60 °C (−40 °F to +140 °F) |
| Operating Humidity    | ≤95%                                 |
| Storage Temperature   | −30 °C to +60 °C (−22°F to +140°F)   |
| Storage Humidity      | ≤95%                                 |
| Protection            | IP67                                 |

Structure

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Casing Material    | Metal + plastic                                                     |
| Product Dimensions | 131.0 mm × 78.4 mm × 97.2 mm (5.47" × 4.80" × 3.83")<br>(L × W × H) |
| Net Weight         | 254.5 g (0.56 lb)                                                   |
| Gross Weight       | 503 g (1.11 lb)                                                     |

Ordering Information

| Type        | Model                | Description                                                                    |
|-------------|----------------------|--------------------------------------------------------------------------------|
| 4MP Camera  | DH-F4C-PV            | 4MP Smart Dual Light Active Deterrence Fixed-focal Wi-Fi Bullet Network Camera |
| Accessories | ADS-12AM-12 12012EPG | 12V DC/1A Power Adapter                                                        |
|             | PFM900-E             | Integrated Mount Tester                                                        |
|             | TF-P100              | MicroSD Memory Card                                                            |

Accessories

Included:



ADS-12AM-12 12012EPG  
12V DC/1A  
Power Adapter

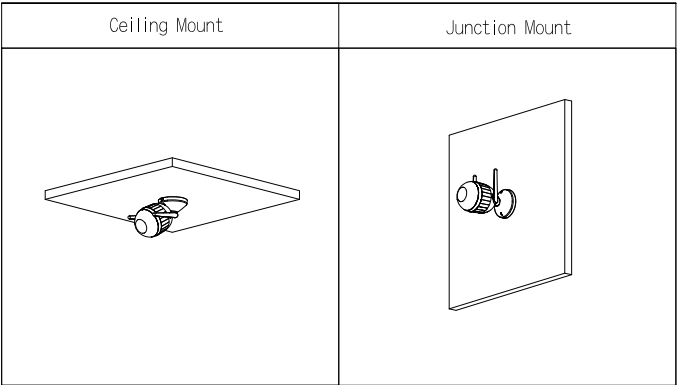
Optional:



PFM900-E  
Integrated  
Mount Tester



TF-P100  
MicroSD  
Memory Card



Dimensions (mm[inch])

