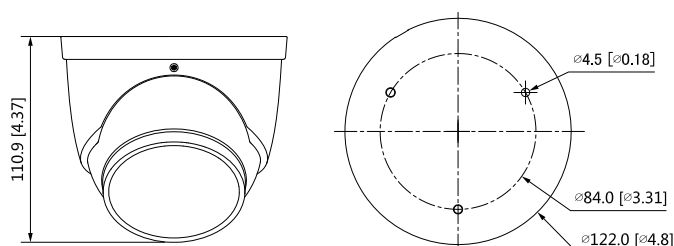


# 5MP Fixed-focal Eyeball Network Camera



- 5MP 1/2.7" CMOS image sensor, low illuminance, high definition image
- Outputs max. 5MP (2592 × 1944)@20 fps and 2688 × 1520 (2688 × 1520)@25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in efficient warm light and IR LED, and the Max. IR distance is 50 m
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Sound and light alarm linkage. When the alarm is triggered, the sound and light will be linked
- Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light during the configured period
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and speaker, support two-way talk.
- 12V DC/PoE power supply, easy for installation
- ePoE, IP67 protection
- SMD 3.0

## Dimensions (mm[inch])



## Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

## Technical Specification

### Camera

|                            |                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------|
| Image Sensor               | 1/2.7" CMOS                                                                             |
| Max. Resolution            | 2592 (H) × 1944 (V)                                                                     |
| ROM                        | 128 MB                                                                                  |
| RAM                        | 512 MB                                                                                  |
| Scanning System            | Progressive                                                                             |
| Electronic Shutter Speed   | Auto/Manual 1/3 s–1/100,000 s                                                           |
| Min. Illumination          | 0.005 Lux@F1.6 (Color, 30IRE)<br>0.0005 Lux@F1.6 (B/W, 30IRE)<br>0 Lux (Illuminator on) |
| S/N Ratio                  | > 56 dB                                                                                 |
| Illumination Distance      | 50 m (164.0 ft)                                                                         |
| Illuminator On/Off Control | Auto/Manual                                                                             |
| Illuminator Number         | 2 (IR light); 2 (warm light)                                                            |
| Pan/Tilt/Rotation Range    | Pan: 0°–360°<br>Tilt: 0°–78°<br>Rotation: 0°–360°                                       |

### Lens

|                      |        |                                                       |                  |                  |                 |
|----------------------|--------|-------------------------------------------------------|------------------|------------------|-----------------|
| Lens Type            |        | Fixed-focal                                           |                  |                  |                 |
| Lens Mount           |        | M12                                                   |                  |                  |                 |
| Focal Length         |        | 2.8 mm                                                |                  |                  |                 |
| Max. Aperture        |        | 2.8 mm: F1.6                                          |                  |                  |                 |
| Field of View        |        | 2.8 mm: Horizontal 98° × Vertical 71° × Diagonal 129° |                  |                  |                 |
| Iris Control         |        | Fixed                                                 |                  |                  |                 |
| Close Focus Distance |        | 2.8 mm: 1.1 m (3.6 ft)                                |                  |                  |                 |
| DORI Distance        | Lens   | Detect                                                | Observe          | Recognize        | Identify        |
|                      | 2.8 mm | 63.6 m (208.7 ft)                                     | 25.4 m (83.3 ft) | 12.7 m (41.7 ft) | 6.4 m (21.0 ft) |

### Smart Event

|          |                                  |
|----------|----------------------------------|
| IVS      | Abandoned object; missing object |
| Heat Map | Yes                              |

## Professional, intelligent

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IVS (Perimeter Protection) | Intrusion; tripwire; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection                                                                                                                                                                                                                                                                                                             |
| Face Detection             | Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting. |
| People Counting            | Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports<br>Support the counting of number in area, and 4 rules configuration. Count number of people and stay time, and link alarm<br>Support queue management, and 4 rules configuration. Count number of people and stay time, and link alarm                                                                                                                              |
| 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: (2592 × 1944@1-20 fps)<br>(2688 × 1520@1-25/30 fps)<br>(1920 × 1080@1-50/60 fps)<br>Sub stream: (704 × 576@1-50 fps/704 × 480@1-60 fps)<br>Third stream: (1920 × 1080@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        | 3 streams                                                                                                                                                                                                                                                                                                                                        |
| Resolution               | 5M (2592 × 1944); 4M (2688 × 1520); 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         | CBR/VBR                                                                                                                                                                                                                                                                                                                                          |
| Video Bit Rate           | H.264: 32 kbps–8192 kbps<br>H.265: 12 kbps–8192 kbps                                                                                                                                                                                                                                                                                             |
| Day/Night                | Auto (ICR)/Color/B/W                                                                                                                                                                                                                                                                                                                             |
| BLC                      | Yes                                                                                                                                                                                                                                                                                                                                              |
| HLC                      | Yes                                                                                                                                                                                                                                                                                                                                              |
| WDR                      | 120 dB                                                                                                                                                                                                                                                                                                                                           |
| Scene Self-adaptation    | Yes                                                                                                                                                                                                                                                                                                                                              |
| 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                                                                                                                                                                                                                                                                                                                                              |
| Defog                    | Yes                                                                                                                                                                                                                                                                                                                                              |

|                 |                  |
|-----------------|------------------|
| Image Rotation  | 0°/90°/180°/270° |
| Mirror          | Yes              |
| Privacy Masking | 8 areas          |

## Audio

|                   |                                    |
|-------------------|------------------------------------|
| Built-in MIC      | Yes                                |
| Audio Compression | PCM; G.711a; G.711Mu; G.726; G.723 |

## Alarm

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm Event | No SD card; SD card full; SD card error; service life warning; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people No. exception detection; safety exception; light alarm; sound alarm (21 built-in sounds and custom voices importing) |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Network

|                     |                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Port        | RJ-45 (10/100 Base-T)                                                                                                                                                                                                                                     |
| SDK and API         | Yes                                                                                                                                                                                                                                                       |
| Cyber Security      | Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade |
| Network Protocol    | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP                                                                                                  |
| Interoperability    | ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec                                                                                                                                                                                            |
| User/Host           | 20 (Total bandwidth: 80 M)                                                                                                                                                                                                                                |
| Storage             | FTP; SFTP; Micro SD card (support max. 256 G); NAS                                                                                                                                                                                                        |
| Browser             | IE: IE8; IE9; IE11<br>Chrome<br>Firefox                                                                                                                                                                                                                   |
| Management Software | Smart PSS; DSS; Elite Viewer Pro, DMSS                                                                                                                                                                                                                    |
| Mobile Client       | IOS; Android                                                                                                                                                                                                                                              |

## Certification

|                |                                                                                                                                                                           |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications | CE-LVD: EN62368-1<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B<br>UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Port

|              |                            |
|--------------|----------------------------|
| Audio Input  | 1 channel (RCA port)       |
| Audio Output | 1 channel (RCA port)       |
| Alarm Input  | 1 channel in: 5mA 3V–5V DC |
| Alarm Output | 1channel out: 300mA 12V DC |

## Power

|              |                                  |
|--------------|----------------------------------|
| Power Supply | DC 12V (±30%)/PoE (802.3af)/ePoE |
|--------------|----------------------------------|

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|                   |                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption | Basic power consumption: 1.9W (12V DC); 2.4W (PoE)<br>Max. power consumption (WDR + face recognition + light and sound alarm + IR LED intensity): 8.3W (12V DC); 8.7W (PoE) |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Environment

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

#### Structure

|                    |                                    |
|--------------------|------------------------------------|
| Casing             | Metal                              |
| Product Dimensions | Φ122 mm × 110.9 mm (Φ4.8" × 4.4" ) |
| Net Weight         | 756 g (1.7 lb)                     |
| Gross Weight       | 940 g (2.1 lb)                     |