

# DH-IPC-HDW2831T-AS-S2

8MP Lite IR Fixed-focal Eyeball Network Camera



- $\cdot$  8MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- $\cdot$  Outputs max. 8MP (3840  $\times$  2160) @15 fps, and supports 2688×1520 (2688  $\times$  1520) @25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 m
- · ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- · Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- · Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- · 12V DC/PoE power support
- · IP67 protection













### **System Overview**

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying to the standards of IP67 and IK10 (Supported by some select models).

### **Functions**

### Smart Codec

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.

### WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

### Starlight

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

#### IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

### 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 can 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.



## Lite Series | DH-IPC-HDW2831T-AS-S2

| Technical S             | Specification            |   |                               |  |                              |                         | 3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 ×   |
|-------------------------|--------------------------|---|-------------------------------|--|------------------------------|-------------------------|--|
| Camera                  |                          |   |                               | 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); |                              |                         |  |
| Image Sensor            |                          | 1/2.7" 8Meg   | gapixel progres               | sive CMOS  |                              | Resolution              | 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080);<br>1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×   |
| Effective Pixels        |                          | 3840 (H) × 2160 (V)   |                               |  |                              |                         | 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)   |
| ROM                     |                          | 128 MB  |                               |  |                              | Bit Rate Control        | CBR/VBR  |
| RAM                     |                          | 256 MB  |                               |  |                              | Video Bit Rate          | H.264: 32 Kbps-8192 Kbps<br>H.265: 12 Kbps-8192 Kbps   |
| Scanning Syste          | em                       | Progressive   |                               |  |                              | Day/Night               | Auto(ICR)/Color/B/W  |
| Electronic Shu          | Electronic Shutter Speed |   | al 1/3 s–1/100,               | 000 s  |                              | BLC                     | Yes  |
| Min. Illuminati         | on                       | 0.009 Lux@F2.0  |                               |  |                              | HLC                     | Yes  |
| IR Distance             |                          | 30 m (98.43 ft)   |                               |  |                              | WDR                     | 120 dB   |
| IR On/Off Control       |                          | Auto/Manual   |                               |  |                              | White Balance           | Auto/natural/street lamp/outdoor/manual/regional custom  |
| IR LEDs Numbe           | IR LEDs Number           |   |                               |  |                              | Gain Control            | Auto/Manual  |
| Pan/Tilt/Potat          |                          |   | o .                           |  |                              | Noise Reduction         | 3D DNR   |
| Pan/Tilt/Rotation Range |                          | Tilt: 0°–78°<br>Rotation: 0°-                                       | –360°                         |  |                              | Motion Detection        | OFF/ON (4 areas, rectangular)  |
| Lens                    |                          |   |                               |  |                              | Region of Interest(RoI) | Yes (4 areas)  |
| Lens Type               |                          | Fixed-focal   |                               |  |                              | Smart IR                | Yes  |
| Mount Type              |                          | M12   |                               |  |                              | Image Rotation          | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower.)   |
| Focal Length            |                          | 2.8 mm<br>3.6 mm  |                               |  |                              | Mirror                  | Yes  |
| Max. Aperture           |                          | F2.0<br>F2.0  |                               |  |                              | Privacy Masking         | 4 areas  |
| Field of View           |                          | 2.8 mm: Pan 105° × Tilt 56° × Diagonal 125°                         |                               |  |                              | Audio                   |  |
| rieid of View           |                          | 3.6 mm: Pan 87° × Tilt 47° × Diagonal 104°                          |                               |  |                              | Built-in MIC            | No   |
| Iris Type               |                          | Fixed   |                               |  |                              | Audio Compression       | G.711A; G.711Mu; G.726; AAC  |
| Close Focus Di          | stance                   | 2.8 mm: 1.0 m (3.3 ft)<br>3.6 mm: 1.9 m (6.2 ft)                    |                               |  |                              | Network                 |  |
|                         | Lens                     | Detect  | Observe                       | Recognize  | Identify                     | Network                 | RJ-45 (10/100 Base-T)  |
| DORI<br>Distance        | 2.8 mm                   | 74.7 m<br>(245.1 ft)<br>106.7 m                                     | 29.9 m<br>(98.1 ft)<br>42.7 m | 14.9 m<br>(48.9 ft)<br>21.3 m  | 7.5 m<br>(24.6 ft)<br>10.7 m | Protocol                | IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP;<br>RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS;<br>QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE;<br>802.1x; Bonjour |
|                         | 3.6 mm                   | (350.1 ft)  | (140.1 ft)                    | (69.6 ft)  | (35.1 ft)                    | Interoperability        | ONVIF(Profile S/Profile G/Profile T); CGI; P2P;<br>Milestone; Genetec  |
|                         | Smart event              |   |                               |  |                              | User/Host               | 20   |
|                         | General IVS Analytics    |   | rusion                        |  |                              | Edge Storage            | Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS   |
| Video                   |                          | HOGE HOGA HOGAD MUREC   |                               |  |                              | Drower                  | IE   |
| Video Compression       |                          | H.265; H.264; H.264B; MJPEG   |                               |  |                              | Browser                 | Chrome<br>Firefox  |
| Smart Codec             |                          | Yes   |                               |  |                              | Management Software     | Smart PSS; DSS; DMSS   |
|                         |                          | Main stream:  |                               |  |                              | Mobile Phone            | IOS; Android   |
| Video Frame Rate        |                          | 3840 × 2160 (1 fps–15 fps)<br>2688 × 1520 (1 fps–25/30 fps)         |                               |  |                              | Certification           |  |
|                         |                          | Sub stream:<br>704 × 576 (1 fps–25 fps)<br>704 × 480 (1 fps–30 fps) |                               |  |                              | Certifications          | CE-LVD: EN60950-1<br>CE-EMC: Electromagnetic Compatibility Directive<br>2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B   |
| Stream Capability       |                          | 2 streams   |                               |  |                              |                         | UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07  |

## Lite Series | DH-IPC-HDW2831T-AS-S2

### Power

| Power Supply      | 12V DC/PoE (802.3af) |
|-------------------|----------------------|
| Power Consumption | < 7.2W               |

### Environment

| Operating Conditions | -40°C to +60°C ( $-40$ °F to +140°F)/less than ≤ 95% RH |
|----------------------|---|
| Storage Temperature  | -40°C to +60°C (-40°F to +140°F)                        |
| Protection           | IP67  |

### Structure

| Casing       | Metal + Plastic                       |
|--------------|---------------------------------------|
| Dimensions   | 100.9 mm × Φ109.9 mm (3.97" × Φ4.33") |
| Net Weight   | 0.39 kg (0.9 lb)                      |
| Gross Weight | 0.56 kg (1.2 lb)                      |

| Ordering Information   |                            |   |  |  |  |
|------------------------|----------------------------|---|--|--|--|
| Туре                   | Part Number                | Description   |  |  |  |
| 8MP Camera             | DH-IPC-<br>HDW2831TP-AS-S2 | 8MP Lite IR Fixed-focal Eyeball Network<br>Camera,PAL   |  |  |  |
| own camera             | DH-IPC-<br>HDW2831TN-AS-S2 | 8MP Lite IR Fixed-focal Eyeball Network<br>Camera, NTSC |  |  |  |
|                        | PFA130-E                   | Junction Box  |  |  |  |
|                        | PFB203W                    | Wall Mount  |  |  |  |
|                        | PFA152-E                   | Pole Mount  |  |  |  |
| Accessories (optional) | PFM321D                    | DC12V1A Power Adapter                                   |  |  |  |
| (-                     | LR1002-1ET/1EC             | Single-port Long Reach Ethernet over Coax<br>Extender   |  |  |  |
|                        | PFM900-E                   | Integrated Mount Tester                                 |  |  |  |
|                        | PFM114                     | TLC SD Card   |  |  |  |

## Accessories

## Optional:



PFA130-E Junction Box



PFM321D DC12V1A Power Adapter



PFB203W Wall Mount



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

| Junction Mount | Wall Mount | Pole Mount       |
|----------------|------------|------------------|
| PFA130-E       | PFB203W    | PFA152-E+PFB203W |
|                |            |                  |

## Dimensions (mm[inch])





