

DH-SD49216UE-HN

2MP 16x Starlight IR PTZ Lite Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 16x optical zoom
- · IR distance up to 100m
- · Max. 25/30 fps@1080P
- · IP66
- · H.265









Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera provides a wide monitoring range and great detail. The camera delivers 1080p resolution at 25/30 fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating make it suitable for demanding outdoor applications.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Protection

The camera allows for 6KV lightning rating, which provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturers.



| Technical Specification | | | | General Intelligence | | |
|---|--|--|-----------|----------------------|--|--|
| Camera | | | | Event Trigger | Motion detection, video tampering, scene changing, | |
| Image Sensor | 1/2.8" CMOS | | | | Event mgger | network disconnection, IP address conflict, illegal access, and storage anomaly. |
| Pixel | 2MP | | | | IVS | Tripwire, intrusion, object abandoned/missing |
| Max. Resolution | 1920 (H) × 10 | 1920 (H) × 1080 (V) | | | Video | |
| ROM | 128 MB | | | | Compression | H.265; H.264 Baseline Profile; H.264 Main Profile; H.264 High Profile |
| RAM | 256 MB | 256 MB | | | Streaming Capability | 3 streams |
| Electronic Shutter Speed | 1/1 s-1/30000 s | | | | Resolution | 1080P (1920 × 1080); 960P (1280 × 960); 720P (1280 × 720) |
| Scanning System | Progressive | | | | | Main stream: 1080P/720P (1–25/30 fps) |
| Min. Illumination | Color: 0.05 Lux@F1.5 B/W: 0.005 Lux@F1.5 0Lux (IR or laser on) | | | | Frame Rate | Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 720P/D1/CIF (1–25/30 fps) |
| Illumination Distance | 100 m (328.0 | , | | | Bit Rate Control | Variable/Constant |
| | | | P./∩ff | | Bit Rate | H.264: 1792 Kbps—8192 Kbps H.265: 768 Kbps—4608 Kbps |
| Illuminator On/Off Control Illuminator Number | 4 | Zoom Prio/Manual/SmartIR/Off | | | Day/Night | Auto (ICR)/Color/B/W |
| Lens | | 4 | | | BLC | Support |
| Focal Length | 5 mm-80 mm | | | | WDR | DWDR |
| Max. Aperture | F1.5-F2.7 | | | | HLC | Support |
| Field of View | | H: 57.7°-4.5°; V:32.7°-2.6°; D: 65.2°-5.2° | | | White Balance | Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural/Street lamp |
| Optical Zoom | 16x | | | | Gain Control | Auto/Manual |
| Focus Control | Auto/Semi-Auto/Manual | | | | Noise Reduction | 2D/3D |
| Close Focus Distance | 0.1 m=0.5 m (0.33 ft=1.64 ft) | | | | Motion Detection | Support |
| Iris Control | Auto/Manua | ıl | | | Region of Interest (RoI) | Support |
| | Detect | Observe | Recognize | Identify | Image Stabilization (EIS) | Electronic |
| DORI Distance | 1343 m | 530 m | 268 m | 134 m | Defog | Electronic |
| | (4406.17 ft) | (1738.85 ft) | | (439.63 ft) | Digital Zoom | 16x |
| PTZ | | | | | Flip | 180° |
| Pan/Tilt Range | ange Pan: 0°–360°; Tilt: -15°–+90° | | | | Privacy Masking | Up to 24 areas |
| Manual Control Speed | Pan: 0.1°/s–200°/s; Tilt: 0.1°/s–120°/s | | | | Audio | |
| Preset Speed | Pan: 240°/s; Tilt: 200°/s | | | | Compression | G.711a; G.711Mu; G.726; AAC; G7221; G726; G729; MP2L2 |
| Presets | 300 | | | | Network | |
| Tour | 8 (up to 32 presets per tour) | | | | Ethernet | RJ-45 (10/100Base-T) |
| Pattern | 5 | | | | Protocol | IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMPv1/v2c/v3(MIB-2); RTCP; RTMP |
| Scan | 5 | | | | | |
| Speed Adjustment | Support | | | | | |
| Power-off Memory | Support | | | | Interoperability | ONVIF Profile S&G CGI |
| Idle Motion | Preset/Tour/Pattern/Scanning | | | | Streaming Method | Unicast/Multicast |
| Protocol | DH-SD Pelco-P/D (auto recognition) | | | | User/Host | 20 (total bandwidth 48 MB) |

Lite Series | DH-SD49216UE-HN

| Storage | FTP; Micro SD card (256 GB); NAS |
|---------------------|---|
| Browser | IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari |
| Management Software | Smart PSS; DSS; DMSS; Easy4ip; IVSS |
| Mobile Phone | IOS, Android |

Certification

| | CE: EN55032/EN55024/EN50130-4 | |
|----------------|--|--|
| Certifications | FCC: Part15 subpartB, ANSI C63.4-2014 | |
| | UL: UL62368-1+CAN/CSA C22.2, No. 62368-1 | |

Port

| Audio Input | 1 (LINE IN; bare wire) |
|--------------|-------------------------|
| Audio Output | 1 (LINE OUT; bare wire) |
| Alarm I/O | 2/1 |

Power

| Power Supply | DC 12V/5A ± 10% |
|-------------------|---------------------------|
| Power Consumption | 6.1W 17W (IR light on) |

Environment

| Operating Temperature | -40°C to +70°C (-40°F to +158°F) | | |
|-----------------------|--|--|--|
| Operating Humidity | ≤ 95%RH | | |
| Protection | IP66; TVS 6000V lightning protection; surge protection | | |
| Structure | | | |
| | 205 4460 (44.64) 46.22() | | |

| Dimensions | 295 mm × Φ160 mm (11.61" × Φ6.30") |
|--------------|------------------------------------|
| Net Weight | 3.0 kg (6.61 lb) |
| Gross Weight | 4.4 kg (9.70 lb) |

| Ordering Information | | | |
|----------------------|------------------|---|--|
| Туре | Model | Description | |
| 2M Camera | DH-SD49216UE-HN | 2MP 16x Starlight IR PTZ Network Camera, PAL | |
| | DH-SD49216UEN-HN | 2MP 16x Starlight IR PTZ Network Camera, NTSC | |
| | SD49216UE-HN | 2MP 16x Starlight IR PTZ Network Camera, PAL | |
| | SD49216UEN-HN | 2MP 16x Starlight IR PTZ Network Camera, NTSC | |
| | PFB305W | Wall Mount Bracket | |
| Accessories | DC12V/5A | Power Adapter | |
| | PFA111 | Mount Adapter | |
| | PFA150 | Pole Mount Bracket | |
| | PFA151 | Corner Mount Bracket | |
| | PFB300C | Ceiling Mount Bracket | |

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC12V/5A Power Supply



PFA111 Mount Adapter



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB300C Ceiling Mount Bracket

| Wall Mount | Ceiling Mount | Pole Mount(Vertical) |
|------------------------|-----------------------|-----------------------|
| PFB305W | PFA111+PFB300C | PFA111+PFB305W+PFA150 |
| | 0: | |
| Pole Mount(Horizontal) | Corner Mount | |
| PFA111+PFB300C+PFA150 | PFA111+PFB305W+PFA151 | |
| | | |

Dimensions (mm[inch])



