

DH-SD49212T-HN 2MP 12x Starlight IR PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 12x optical zoom
- · Starlight technology
- · Max. 25/30fps@1080P
- · IVS
- · Support PoE+
- · IR distance up to 100m
- · IP66



System Overview

Lite series is a range of attractively priced mini PTZ dome camera with compact design. The series is ideal for entry level applications, comprises outdoor and indoor cameras that are esthetically designed to blend in with a building. With pan at speeds of up to 400°/s, and tilt at speeds of up to 200°/s, the lite series ensures complete and timely video capture across a large area. It offers industry-leading IR capability of up to 100m, and IP66 and IK10 protection ratings. They are perfect for remote monitoring of applications such as airports, stores, banks, hotels, office lobbies and etc.

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.

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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and differencecoding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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 makes it suitable for demanding outdoor applications.

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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Lite Series | DH-SD49212T-HN

Technical Specification

Camera

| Image Sensor | 1/2.8" STARVIS™ CMOS |
|--------------------------|---|
| Effective Pixels | 1920(H) x 1080(V), 2 Megapixels |
| RAM/ROM | 1024M/128M |
| Scanning System | Progressive |
| Electronic Shutter Speed | 1/1s~1/30,000s |
| Minimum Illumination | Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on) |
| S/N Ratio | More than 50dB |
| IR Distance | Distance up to 100m (328ft) |
| IR On/Off Control | Auto/Manual |
| IR LEDs | 6 |
| Lens | |
| Focal Length | 5.3mm~64mm |
| Max. Aperture | F1.6 ~ F4.4 |
| Angle of View | H: 58.2° ~ 4.8° |
| Optical Zoom | 12x |
| Focus Control | Auto/Manual |
| Close Focus Distance | 100mm~ 1000mm |

DORI Distance

*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

| Detect | Observe | | Recognize | Identify | | |
|----------------------|--------------|---|---|------------|--|--|
| 883m(2897ft) | 353m(1158ft) | | 177m(581ft) | 88m(289ft) | | |
| PTZ | | | | | | |
| Pan/Tilt Range | | Pan: 0 | Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°,auto flip 180° | | | |
| Manual Control Speed | | Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s | | | | |
| Preset Speed | Par | | Pan: 240° /s; Tilt: 200° /s | | | |
| Presets | ets | | 300 | | | |
| PTZ Mode | de | | 5 Pattern, 8 Tour, Auto Pan ,Auto Scan | | | |
| Speed Setup | | Human-oriented focal Length/ speed adaptation | | | | |
| Power up Action | | Auto restore to previous PTZ and lens status after power failure | | | | |
| Idle Motion | | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period | | | | |
| Protocol | | | DH-SD | | | |
| Intelligence | | | | | | |
| Auto Tracking | N/A | | V/A | | | |
| IVS | | | Tripwire, Intrusion, Abandoned/Missing, Face Detection | | | |

| Video | | |
|---|--|--|
| Compression | H.265/H.264/MJPEG | |
| Streaming Capability | 3 Streams | |
| Resolution | 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240) | |
| | Main stream: 1080P/720P/D1(1 ~ 25/30fps) | |
| Frame Rate | Sub stream1: D1/CIF(1 ~ 25/30fps) | |
| | Sub stream2: 1080P/720P/D1/CIF(1 ~ 25/30fps) | |
| Bit Rate Control | CBR/VBR | |
| Bit Rate | H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps | |
| Day/Night | Auto(ICR) / Color / B/W | |
| Backlight Compensation | BLC / HLC / WDR(120dB) | |
| White Balance | Auto, ATW, Indoor, Outdoor, Manual | |
| Gain Control | Auto / Manual | |
| Noise Reduction | Ultra DNR (2D/3D) | |
| Motion Detetion | Support | |
| Region of Interest | Support | |
| Electronic Image Stabilization (EIS) | N/A | |
| Defog | Support | |
| Digital Zoom | 16x | |
| Flip | 180° | |
| Privacy Masking | Up to 24 areas | |
| Audio | | |
| Compression | G.711a/G.711u(32kbps)/PCM(128kbps) | |
| Network | | |
| Ethernet | RJ-45 (10Base-T/100Base-TX) | |
| Protocol | IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x | |
| Interoperability | ONVIF, PSIA, CGI | |
| Streaming Method | Unicast / Multicast | |
| Max. User Access | 20 users | |
| Edge Storage | NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB | |
| Web Viewer | IE, Chrome, Firefox, Safari | |
| Management Software | Smart PSS, DSS | |
| Smart Phone | IOS, Android | |
| Certifications | | |
| Certifications | CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1 | |

Lite Series | DH-SD49212T-HN

| Interface |
|-----------|
|-----------|

| Interface | |
|----------------------|--|
| Video Interface | N/A |
| Audio Interface | 1/1 |
| RS485 | N/A |
| Alarm I/O | 2/1 |
| Electrical | |
| Power Supply | DC 12V/3A, PoE+(802.3at) |
| Power Consumption | 13W,20W (IR on) |
| Environmental | |
| Operating Conditions | -40°C \sim 70°C (-40°F \sim +158°F) / Less than 90% RH |
| Ingress Protection | IP66 |
| Vandal Resistance | N/A |
| Construction | |
| Casing | Metal |
| Dimensions | Φ160(mm) x 295(mm) |
| Net Weight | 3kg(6.61lb) |
| | |

4.2kg(9.26lb)

Ordering Information

Gross Weight

| Туре | Part Number | Description |
|-------------------|-----------------|--|
| 2MP PTZ Camera | DH-SD49212T-HN | 2MP 12x Starlight IR PTZ Network Camera, WDR,PAL |
| | DH-SD49212TN-HN | 2MP 12x Starlight IR PTZ Network Camera, WDR,NTSC |
| | SD49212T-HN | 2MP 12x Starlight IR PTZ Network Camera, WDR,PAL |
| | SD49212TN-HN | 2MP 12x Starlight IR PTZ Network Camera, WDR,NTSC |
| Accessories | PFB305W | Wall Mount |
| | PFA111 | Mount Adapter |
| | DC12V/3A | Power Supply |
| | PFA140 | Power box |
| | PFB300C | Ceiling Mount |
| | PFA120 | Water-proof Junction Box |
| | PFA150 | Pole Mount |
| | PFA151 | Corner Mount |
| | PFB303S | Parapet mount |

Accessories

Included:



Wall Mount

Optional:







PFA111 Mount Adapter





Power Supply

PFA120

Junction Box





Power box

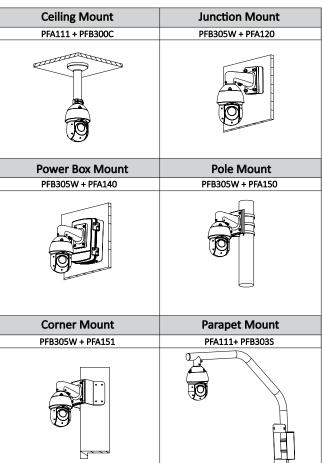
PFA150 Pole Mount

PFA151 Corner Mount

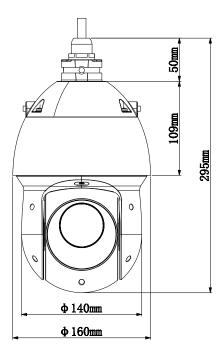
PFB300C

Ceiling Mount

PFB303S Parapet Mount



Dimensions (mm)





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