

DH-SD49225-HC-LA

2MP 25x Starlight IR PTZ HDCVI Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 25x optical zoom
- Starlight technology
- 120 dB true WDR, 3D DNR
- Max. 25/30 fps@1080P, 25/30/50/60 fps@720P
- IR distance up to 100 m
- IP66



Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD49 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 25x optical zoom, and has very excellent low light performance due to the latest starlight technology. SD49 series PTZ camera is equipped with smooth control, high quality image and good protection, which makes it meet small and medium-sized video surveillance applications.

Functions

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring network.

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

The camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes 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.

Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Technical Specification

| | |
|----------------------------|---|
| Camera | |
| Image Sensor | 1/2.8" STARVIS™ CMOS |
| Pixel | 2MP |
| Max. Resolution | 1920 (H) x 1080 (V) |
| ROM | 16 MB |
| RAM | 256 MB |
| Electronic Shutter Speed | 1/3 s–1/100000 s |
| Scanning System | Progressive |
| Min. Illumination | Color: 0.005 Lux@F1.6 B/W: 0.0005 Lux@F1.6 0 Lux@F1.6 (IR on) |
| Illumination Distance | 100 m (328.08 ft) |
| Illuminator On/Off Control | Auto/Manual |
| Illuminator Number | 6 |

| Lens | | | | |
|----------------------|---|-------------------------|-------------------------|------------------------|
| Focal Length | 4.8 mm–120 mm | | | |
| Max. Aperture | F1.6–F3.5 | | | |
| Field of View | H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2° | | | |
| Optical Zoom | 25x | | | |
| Focus Control | Auto/Semi-Auto/Manual | | | |
| Close Focus Distance | 0.1 m–1.5 m (0.33 ft–4.92 ft) | | | |
| Iris Control | Auto/Manual | | | |
| DORI Distance | Detect | Observe | Recognize | Identify |
| | 1655.2 m (5430.45 ft) | 656.8 m (2154.86 ft) | 331.0 m (1085.96 ft) | 165.5 m (542.98 ft) |

| | |
|----------------------|---|
| PTZ | |
| Pan/Tilt Range | Pan: 0°–360°Tilt: -15°–+90°; auto flip 180° |
| Manual Control Speed | Pan: 0.1°–200°/s; Tilt: 0.1°–120°/s |
| Preset Speed | Pan: 240°/s; Tilt: 200°/s |
| Presets | 300 |
| Tour | 8 (up to 32 presets per tour) |
| Pattern | 5 |
| Scan | 5 |
| Speed Adjustment | Support |
| Power-off Memory | Support |
| Idle Motion | Preset/Tour/Pattern/Scanning |
| Protocol | DH-SD Pelco-P/D (auto recognition) |

| | |
|-----------------|---|
| Video | |
| Resolution | 1080P (1920 × 1080); 720P (1280 × 720); D1 (704 × 576/704 × 480) |
| Frame Rate | 1080P (25/30 fps), 720P (25/30/50/60 fps) |
| Day/Night | Support |
| BLC | Support |
| WDR | 120 dB |
| HLC | Support |
| White Balance | Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp |
| Gain Control | Auto/Manual |
| Noise Reduction | 2D/3D |
| Defog | Electronic |
| Digital Zoom | 16x |
| Flip | 0°/180° |
| Privacy Masking | Up to 24 areas |

| | |
|-------------|-----------------|
| Audio | |
| Compression | G.711a; G.711Mu |

| | |
|----------------|---|
| Certification | |
| Certifications | CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1 |

| | |
|--------------|------------------------|
| Port | |
| Audio Input | 1 (LINE IN; bare wire) |
| Alarm Input | 2 |
| Alarm Output | 1 |

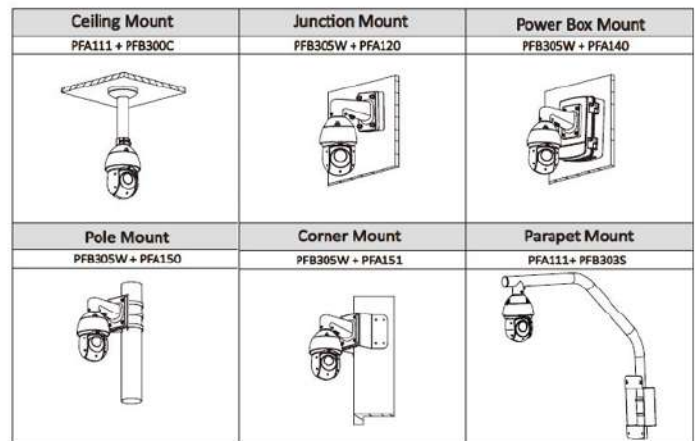
| | |
|-------------------|------------------------------------|
| Power | |
| Power Supply | DC 12V/3A ± 10% |
| Power Consumption | 9.6 W 23.2 W (IR light on, PTZ) |

| | |
|-----------------------|--|
| 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 |

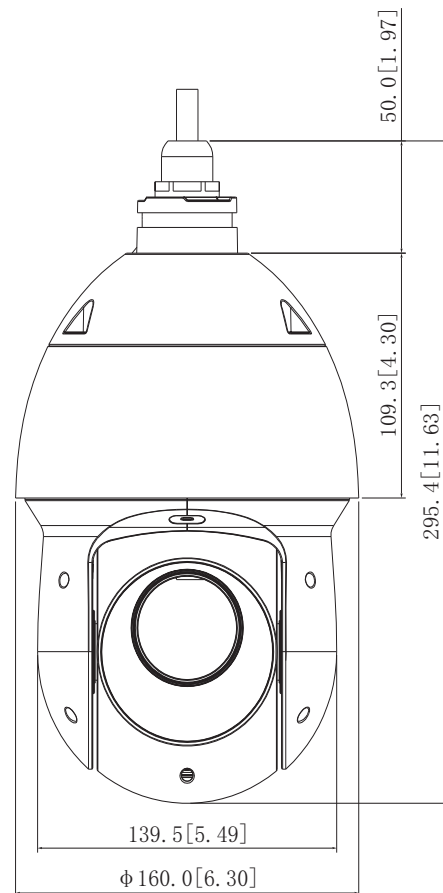
| | |
|--------------|--|
| Structure | |
| Dimensions | 295.4 mm × Φ160.0 mm (11.63" × Φ6.30") |
| Net Weight | 3 kg (6.61 lb) |
| Gross Weight | 4.2 kg (9.26 lb) |

Ordering Information

| Type | Model | Description |
|-------------|-------------------|--|
| 2M Camera | DH-SD49225-HC-LA | 2MP 25x Starlight IR PTZ HDCVI Camera, WDR, PAL |
| | DH-SD49225N-HC-LA | 2MP 25x Starlight IR PTZ HDCVI Camera, WDR, NTSC |
| | SD49225-HC-LA | 2MP 25x Starlight IR PTZ HDCVI Camera, WDR, PAL |
| | SD49225N-HC-LA | 2MP 25x Starlight IR PTZ HDCVI Camera, WDR, NTSC |
| Accessories | PFB305W | Wall Mount Bracket |
| | PFA111 | Mount Adapter |
| | DC12V/3A | Power Supply |
| | PFA140 | Power Box |
| | PFB300C | Ceiling Mount Bracket |
| | PFA120 | Junction Box |
| | PFA150 | Pole Mount Bracket |
| | PFA151 | Corner Mount Bracket |
| | PFB303S | Parapet Mount Bracket |



Dimensions (mm[inch])



Accessories

Included:



PFB305W
Wall Mount Bracket

Optional:



PFA111
Mount Adapter



DC12V/3A
Power Supply



PFA140
Power Box



PFB300C
Ceiling Mount Bracket



PFA120
Junction Box



PFA150
Pole Mount Bracket



PFA151
Corner Mount
Bracket



PFB303S
Parapet Mount
Bracket