

DH-SD49225T-HN

2MP 25x Starlight IR PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 25x optical zoom
- Starlight technology
- Support H.265&H.264 Triple-streams encoding
- Max. 50/60fps@1080P, 25/30/50/60fps@720P
- IVS
- Support PoE+
- IR distance up to 100m
- IP66



System Overview

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 50/60 fps, with 25x optical zoom, and has very excellent low light performance due to adopting the latest starlight technology. SD49 series PTZ is equipped with smooth control, high quality image and good protection, which make it can meet small and medium size of video surveillance applications.

Functions

Starlight Technology

Thanks to our experience and expertise in hardware and software development, the camera is equipped with the latest image processing algorithm, high performance hardware and high quality optical components, which make the camera have very excellent low light performance. In most conditions, this camera can deliver clear, bright and low-noise color images.

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 difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), 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.

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.

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.

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~1/300,000s |
| 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 | 4.8mm~120mm |
| Max. Aperture | F1.6 ~ F4.4 |
| Angle of View | H: 59.2° ~ 2.4° |
| Optical Zoom | 25x |
| 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 |
|---------------|--------------|--------------|-------------|
| 1613m(5292ft) | 646m(2119ft) | 323m(1060ft) | 161m(528ft) |

PTZ

| | |
|----------------------|-------------------------------------------------------------------------------------|
| Pan/Tilt Range | 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 | Pan: 240° /s; Tilt: 200° /s |
| Presets | 300 |
| PTZ Mode | 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

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|---------------|--------------------------------------------------------|
| Auto Tracking | N/A |
| IVS | Tripwire, Intrusion, Abandoned/Missing, Face Detection |

Video

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|--------------------------------------|--------------------------------------------------------------------------|-----------------------------------|
| Compression | H.265/H.264 / MJPEG | |
| Streaming Capability | 3 Streams | |
| Resolution | 1080P(1920x1080)/720P(1280x720)/D1(704x576/704x480)/CIF(352x288/352x240) | |
| Frame Rate | Main stream | 1080P/720P/D1(1~50/60fps) |
| | 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

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|-------------|------------------------------------|
| Compression | G.711a/G.711u(32kbps)/PCM(128kbps) |
|-------------|------------------------------------|

Network

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|---------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet | RJ-45 (10/100Base-T) |
| 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 |
|----------------|------------------------------------------------------------------------------------------------------------------|

Interface

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|-----------------|-----|
| Video Interface | N/A |
| Audio Interface | 1/1 |

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|----------------------|--------------------------------------------------|
| RS485 | N/A |
| Alarm | 2/1 |
| Electrical | |
| Power Supply | DC 12V/3A, PoE+(802.3at) |
| Power Consumption | 13W,20W (IR on) |
| Environmental | |
| Operating Conditions | -40°C ~ 70°C (-40°F ~ +158°F) / Less than 90% RH |
| Ingress Protection | IP66 |
| Vandal Resistance | N/A |
| Construction | |
| Casing | Metal |
| Dimensions | Φ160(mm) x 295(mm) |
| Net Weight | 4kg(8.82lb) |
| Gross Weight | 4.2kg(9.26lb) |

Ordering Information

| Type | Part Number | Description |
|----------------|-----------------|---------------------------------------------------|
| 2MP PTZ Camera | DH-SD49225T-HN | 2MP 25x Starlight IR PTZ Network Camera, WDR,PAL |
| | DH-SD49225TN-HN | 2MP 25x Starlight IR PTZ Network Camera, WDR,NTSC |
| | SD49225T-HN | 2MP 25x Starlight IR PTZ Network Camera, WDR,PAL |
| | SD49225TN-HN | 2MP 25x 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:



PFB305W
Wall Mount

Optional:



PFA111
Mount Adapter



DC12V/3A
Power Supply



PFA140
Power box



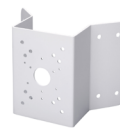
PFB300C
Ceiling Mount



PFA120
Junction Box



PFA150
Pole Mount



PFA151
Corner Mount



PFB303S
Parapet Mount

| Ceiling Mount | Junction Mount |
|------------------|------------------|
| PFA111 + PFB300C | PFB305W + PFA120 |
| | |
| Power Box Mount | Pole Mount |
| PFB305W + PFA140 | PFB305W + PFA150 |
| | |
| Corner Mount | Parapet Mount |
| PFB305W + PFA151 | PFA111+ PFB303S |
| | |

Dimensions (mm)

