

DH-SD59225U-HNI

2MP 25x Starlight IR PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · H.265 Encoding
- Max. 50/60fps@1080P
- · Auto-tracking and IVS
- · Support PoE+
- · IR distance up to 150m
- · IP66



System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements 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.

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.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

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.

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.

PoE+

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

This camera suits even the harsh conditions for outdoor applications. TVS 6KV lightning protection rating provides lightning protection, surge protection and voltage transient protection.

Interoperability

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



| Technical Specification | | | | Auto Tracking | Support | | |
|---|-------------|---|---|--------------------------------------|--------------------------------|--|--|
| Camera | .cincution | | | | | IVS | Tripwire, Intrusion, Abandoned/Missing |
| Image Sensor | | 1/2.8" STARVIS™ CMOS | | | Advanced Intelligent Functions | | |
| Effective Pixels | | 1920(H) x 1080(V), 2 Megapixels | | | | Face Detection, Heat Map | |
| RAM/ROM | | | | | Video | | |
| | | | | | Compression | H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream) | |
| Scanning System | | Progressive 1/1s~1/30,000s | | | | Streaming Capability | 3 Streams |
| Electronic Shutter Speed | | Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; | | | | Resolution | 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240) |
| Minimum Illumination | | OLux@F1.6 (IR on) | | | | Frame Rate | Main stream: 1080P/1.3M/ 720P(1~50/60fps) |
| IR Distance | | Distance up to 150m (492ft) | | | | | Sub stream1: D1/CIF(1 ~ 25/30fps) |
| IR On/Off Control | | Auto/Manual | | | | | Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps) |
| IR LEDs | | 4 | | | | Bit Rate Control | CBR/VBR |
| Lens | | | | | | Bit Rate | H.265/H.264: 448K ~ 8192Kbps |
| Focal Length | | 4.8mm~120mm | | | | Day/Night | Auto(ICR) / Color / B/W |
| Max. Aperture | | F1.6 ~ F4.4 | | | Backlight Compensation | BLC / HLC / WDR (120dB) | |
| Angle of View H: | | H: 62.8° ~ 2.6° | | | White Balance | Auto, ATW, Indoor, Outdoor, Manual | |
| Optical Zoom | | 25x | | | | Gain Control | Auto / Manual |
| Focus Control | | Auto/Manual | | | Noise Reduction | Ultra DNR (2D/3D) | |
| Close Focus Distance | | 100mm~ 1000mm | | | | Motion Detection | Support |
| DORI Distance | | | | | | Region of Interest | Support |
| *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 | | | | Electronic Image Stabilization (EIS) | Support | | |
| | | | rding to EN 62676-4 w Identify respectively. | hich defines the | | Defog | Support |
| Detect Observe | | | Recognize | Identify | | Digital Zoom | 16x |
| 1613m(5292ft) | 646m(2119ft | t) | 323m(1060ft) | 161m(528ft) | | Flip | 180° |
| PTZ | | | | | | Privacy Masking | Up to 24 areas |
| Pan/Tilt Range | | Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180° | | | Audio | | |
| Manual Control Spe | eed | Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /s | | | | Compression | G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2 |
| Preset Speed | | Pan: 400° /s; Tilt: 300° /s | | | | Network | |
| Presets | | 300 | | | | Ethernet | RJ-45 (10Base-T/100Base-TX) |
| PTZ Mode | | 5 Pattern, 8 Tour, Auto Pan ,Auto Scan | | | Protocol | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, | |
| Speed Setup | | Human-oriented focal Length/ speed adaptation | | | | ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x | |
| Power up Action | | Auto restore to previous PTZ and lens status after power failure | | | Interoperability | ONVIF Profile S&G, API | |
| Idle Motion | | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period | | | Streaming Method | Unicast / Multicast | |
| Protocol | | DH-SD | | | Max. User Access | 20 users | |
| Intelligence | | | | | Edge Storage | NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB | |
| Event Trigger | | Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly | | | Web Viewer | IE, Chrome, Firefox, Safari | |
| Event Trigger | | | | | Management Software | Smart PSS, DSS, DMSS | |

Smart Phone

IOS, Android

Certifications

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

Interface

| Video Interface | N/A |
|-----------------|-----|
| RS485 | N/A |
| Audio I/O | 1/1 |
| Alarm I/O | 2/1 |

Electrical

| Power Supply | DC24V/2.5A(±25%), PoE+(802.3at) |
|-------------------|---------------------------------|
| Power Consumption | 13W,23W (IR on) |

Environmental

| Operating Conditions | -40°C $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH | | |
|----------------------|--|--|--|
| Ingress Protection | IP66 | | |
| Vandal Resistance | N/A | | |

Construction

| Casing | Metal |
|--------------|--------------------|
| Dimensions | Ф186(mm) x 309(mm) |
| Net Weight | 3.9kg(8.60lb) |
| Gross Weight | 7.2kg(15.87lb) |

Ordering Information Type Part Number Description 2MP 25x Starlight IR PTZ DH-SD59225U-HNI Network Camera, WDR, PAL 2MP 25x Starlight IR PTZ DH-SD59225UN-HNI Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 25x Starlight IR PTZ SD59225U-HNI Network Camera, WDR, PAL 2MP 25x Starlight IR PTZ SD59225UN-HNI Network Camera, WDR, NTSC PFB300S Wall Mount PFA110 Mount Adapter DC24V/2.5A Power Adapter PFA140 Power Box Accessories PFB300C Ceiling Mount PFA120 Water-proof Junction Box PFA150 Pole Mount PFA151 Corner Mount PFB303S Parapet Mount

Accessories

Included:



PFB300S Wall Mount



PFA110 Mount Adapter



DC24V/2.5A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

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|-------------------------|---------|------------|------------------|
| Ceiling Mount | | Juncti | on Mount |
| PFA110 + PFB300C | | PFA110 + F | PFB300S + PFA120 |
| | | | |
| Power Box Mount | | Pole | e Mount |
| PFA110 + PFB300S + PFA1 | 40 | PFA110 + F | PFB300S + PFA150 |
| | | | |
| Corner Mount | | Parap | et Mount |
| PFA110 + PFB300S + PFA | 151 | PFA11 | 0 + PFB303S |
| | | | |

Dimensions (mm)



