

DH-SD6CE131U-HNI

720P 31x Starlight IR PTZ Network Camera



- · 1/2.8" STARVIS™ CMOS
- · Powerful 31x optical zoom
- · Starlight technology
- Max. 50/60fps@720P
- Auto-tracking and IVS
- · IR distance up to 200m
- · Support PoE+
- · IP67, IK10



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 0.005lux. 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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40°C $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for ±25% input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 8KV lightning rating 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 manufacturer.



| Technical Specification | | | | Auto Tracking | Support |
|---|-------------------|---|---|---|---|
| Camera | | IVS | Tripwire, Intrusion, Abandoned/Missing | | |
| Image Sensor | : | 1/2.8" STARVIS™ CMOS | | Advanced Intelligent Functions | Face Detection, Heat Map |
| Effective Pixels 1280(H) x 720(V), 1 Megapixels | | Video | | | |
| RAM/ROM | 1024M/128M | | | Compression | H.265+/H.265/H.264+/H.264 |
| Scanning System | Progressive | | | Streaming Capability | 3 Streams |
| Electronic Shutter Speed 1/1s~1/30,000s | | Resolution | 720P(1280×720)/D1(704×576/704×480)/ | | |
| Minimum Illumination Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on) | | Resolution | CIF(352×288/352×240) Main stream: 720P(1~50/60fps) | | |
| S/N Ratio | | More than 55dB | | Frame Rate | Sub stream1: D1/CIF(1 ~ 25/30fps) |
| IR Distance | | Distance up to 200m (656ft) | | | Sub stream2: 720P/D1/CIF (1~25/30fps) |
| IR On/Off Control | , | Auto/Manual | | D'' D | |
| IR LEDs | (| 6 | | Bit Rate Control | CBR/VBR |
| Lens | | | | Bit Rate | H.265/H.264: 448K ~ 8192Kbps |
| Focal Length 4.8mm~150mm | | | Day/Night | Auto(ICR) / Color / B/W | |
| Max. Aperture | | F1.6 ~ F4.4 | | Backlight Compensation | BLC / HLC / WDR (120dB) |
| Angle of View | | | | White Balance | Auto, ATW, Indoor, Outdoor, Manual |
| | | | Gain Control | Auto / Manual | |
| Optical Zoom 31x | | | Noise Reduction | Ultra DNR (2D/3D) | |
| Focus Control Auto/Manual | | | Motion Detection | Support | |
| Close Focus Distance | | 100mm~ 1000mm | | Region of Interest | Support |
| *Note: The DORI dist | tance is a "gener | al proximity" of distance wl | nich makes it easy to | Electronic Image Stabilization (EIS) | Support |
| pinpoint the right ca | mera for your ne | eeds. The DORI distance is c llt according to EN 62676-4 | alculated based on | Defog | Support |
| • | | ze and Identify respectively. | | Digital Zoom | 16x |
| Detect | Observe | Recognize | Identify | Flip | 180° |
| 1613m(5292ft) | 646m(2119ft) | 323m(1060ft) | 161m(528ft) | Privacy Masking | Up to 24 areas |
| PTZ | | | | Audio | |
| Pan/Tilt Range Manual Control Spee | | Pan: 0° ~ 360° endless; Tilt: Pan: 0.1° ~200° /s; Tilt: 0.1° | | Compression | G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2 |
| Preset Speed | | Pan: 300° /s; Tilt: 200° /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, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1 |
| Speed Setup | | Human-oriented focal Length/ speed adaptation | | Interoperability | ONVIF Profile S&G, API |
| Power up Action | | Auto restore to previous PTZ and lens status after power failure | | Streaming Method | Unicast / Multicast |
| Idle Motion | | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period | | Max. User Access | 20 users |
| Protocol DH-SD, Pelco-P/D (Auto recognition) | | | Edge Storage | NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB | |
| Intelligence | | | | Web Viewer | IE, Chrome, Firefox, Safari |
| | | Motion detection, Video tampering , Scene changing, Network disconnection, IP address | | Management Software | Smart PSS, DSS, DMSS |
| Event Trigger | | | | | |

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

| Video Interface | 1 port(BNC, 1.0V[p-p], 75Ω) |
|-----------------|-----------------------------|
| RS485 | 1 |
| Audio I/O | 1/1 |
| Alarm I/O | 7/2 |

Electrical

| Power Supply | AC24V/3A(±25%), PoE+(802.3at) |
|-------------------|-------------------------------|
| Power Consumption | 17W, 25W(IR On, Heater On) |

Environmental

| Operating Conditions | -40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH |
|----------------------|--|
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |

Construction

| Casing | Metal |
|--------------|----------------|
| Dimensions | ф209×337.4mm |
| Net Weight | 5.8kg(12.79lb) |
| Gross Weight | 9.1kg(20.06lb) |

| Ordering Information | | |
|----------------------|-------------------|--|
| Туре | Part Number | Description |
| 720P PTZ Camera | DH-SD6CE131U-HNI | 720P 31x Starlight IR PTZ Network Camera, WDR, PAL |
| | DH-SD6CE131UN-HNI | 720P 31x Starlight IR PTZ Network Camera, WDR, NTSC |
| | SD6CE131U-HNI | 720P 31x Starlight IR PTZ Network Camera, WDR, PAL |
| | SD6CE131UN-HNI | 720P 31x Starlight IR PTZ Network Camera, WDR, NTSC |
| | PFB305W | Wall Mount |
| | AC24V/3A | Power Adapter |
| | PFA111 | Mount Adapter |
| | PFA140 | Power Box |
| Accessories | PFB300C | Ceiling Mount |
| | PFA120 | Junction Box |
| | PFA150 | Pole Mount |
| | PFA151 | Corner Mount |
| | PFB303S | Parapet Mount |

Accessories

Included:





PFB305W Wall Mount

AC24V/3A Power Adapter

Optional:



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PFA111 Mount Adapter

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 |
| | |
| Power Box Mount | Pole Mount |
| PFB305W + PFA140 | PFB305W + PFA150 |
| | |
| Corner Mount | Parapet Mount |
| PFB305W + PFA151 | PFA111+ PFB303S |
| | |

Dimensions (mm)





