**alhua**
TECHNOLOGY

# DH-SD6AE830V-HNI

## 4K 30x IR PTZ Network Camera

- 1/1.7" 12Megapixel STARVIS™ CMOS
- Powerful 30x optical zoom
- H.265 Encoding
- Max. 30fps@4K, 50/60fps@1080P
- Auto tracking and IVS
- Support Hi-PoE
- IR distance up to 200m
- IP67 , IK10

| H.265 | ICR D/N | IP67 | Vandal-proof | Hi-PoE |

## System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD6AE series PTZ camera can provide large monitoring range and great detail. The camera delivers 4K resolution at 25/30 fps, with 30x optical zoom. It combines a day/night mechanical IR cut filter for the highest image quality for variable lighting conditions during the day and night.

## Functions

### Auto-tracking
The camera supports auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

### H.265
The camera supports H.265 encoding, which provides a savings of more than 50% of bandwidth and storage compared with H.264. This technology can help our customers to reduce the cost of the project and improve the transmission efficiency.

### Environmental
With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. The camera complies an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

### Protection
Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protectection 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.

ONVIF PSIA

## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/1.7" STARVIS™ CMOS |
| Effective Pixels | 3840(H) x 2160(V), 8 Megapixels |
| RAM/ROM | 1024M/128M |
| Scanning System | Progressive |
| Electronic Shutter Speed | 1/1s~1/300,000s |
| Minimum Illumination | Color: 0.05Lux@F1.6; 0Lux (IR on) |
| S/N Ratio | More than 56dB |
| IR Distance | Distance up to 200m (656ft) |
| IR On/Off Control | Auto/Manual |
| IR LEDs | 10 |

### Lens

| | |
|---|---|
| Focal Length | 6mm~180mm |
| Max. Aperture | F1.6 ~ F4.8 |
| Angle of View | H: 61.2° ~ 2.1° |
| Optical Zoom | 30x |
| 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 |
|---|---|---|---|
| 3892m(12769ft) | 1557m(5108ft) | 778m(2552ft) | 389m(1276ft) |

### PTZ

| | |
|---|---|
| Pan/Tilt Range | Pan: 0° ~ 360° endless; Tilt: -20° ~ 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, Pelco-P/D (Auto recognition) |

### Intelligence

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

### Video

| | | |
|---|---|---|
| Compression | | H.265/H.264/MJPEG |
| Streaming Capability | | 3 Streams |
| Resolution | | 4K(3840x2160)/1080P(1920×1080)/1.3M(1280x 960)/720P(1280×720)/D1(704×576/ 704×480)/ CIF(352×288/352×240) |
| Frame Rate | Main stream | 4K/1.3M/720P(1~25/30fps),1080P(1~50/60fps) |
| | Sub stream1 | D1/CIF(1 ~ 25/30fps) |
| | Sub stream2 | 1080P/720P/D1/(1 ~ 25/30fps) |
| Bit Rate Control | | CBR/VBR |
| Bit Rate | | H.265/H.264: 256K ~ 8192Kbps, MJPEG: 4096K ~ 20480Kbps |
| Day/Night | | Auto(ICR) / Color / B/W |
| Backlight Compensation | | BLC / HLC / DWDR |
| 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) | | Support |
| Defog | | Support |
| Digital Zoom | | 16x |
| Flip | | 180° |
| Privacy Masking | | Up to 24 areas |

### Audio

| | |
|---|---|
| Compression | G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2 |

### Network

| | |
|---|---|
| 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<br>FCC: Part15 subpartB,ANSI C63.4- 2014<br>UL: UL60950-1+CAN/CSA C22.2,No.60950-1 |

## Interface

| | |
|---|---|
| Video Interface | 1 |
| Audio Interface | 1/1 |
| RS485 | 1 |
| Alarm | 7/2 |

## Electrical

| | |
|---|---|
| Power Supply | AC24V/3A(±25%), Hi-PoE |
| Power Consumption | 24W,38W (IR on) |

## Environmental

| | |
|---|---|
| Operating Conditions | -40°C ~ 70°C (-40°F ~ +158°F) / Less than 90% RH |
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |

## Construction

| | |
|---|---|
| Casing | Metal |
| Dimensions | Φ240(mm) x 382 (mm) |
| Net Weight | 6.75kg(14.88lb) |
| Gross Weight | 10.1kg(22.27lb) |

## Ordering Information

| Type | Part Number | Description |
|---|---|---|
| 4K PTZ Camera | DH-SD6AE830V-HNI | 4K 30x IR PTZ Network Camera, PAL |
| | DH-SD6AE830VN-HNI | 4K 30x IR PTZ Network Camera, NTSC |
| | SD6AE830V-HNI | 4K 30x IR PTZ Network Camera, PAL |
| | SD6AE830VN-HNI | 4K 30x IR PTZ Network Camera, NTSC |
| Accessories | PFB303W | Wall Mount |
| | PFA111 | Mount Adapter |
| | AC24V/3A | Power Supply |
| | PFA140 | Power box |
| | PFB300C | Ceiling Mount |
| | PFA120 | Junction Box |
| | PFA150 | Pole Mount |
| | PFA151 | Corner Mount |
| | PFB303S | Parapet mount |

## Accessories

Included:



PFB303W
Wall Mount
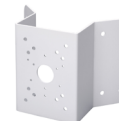
PFA111
Mount Adapter

AC24V/3A
Power Supply

Optional：



PFA140
Power box

PFB300C
Ceiling Mount

PFA120
Junction Box

PFA150
Pole Mount

PFA151
Corner Mount

PFB303S
Parapet Mount

| Ceiling Mount | Junction Mount |
|---|---|
| PFA111 + PFB300C | PFA111 + PFB303W + PFA120 |
|  |  |
| **Power Box Mount** | **Pole Mount** |
| PFA111 + PFB303W + PFA140 | PFA111 + PFB303W + PFA150 |
|  |  |
| **Corner Mount** | **Parapet Mount** |
| PFA111 + PFB303W + PFA151 | PFA111+ PFB303S |
|  |  |

**Dimensions (mm)**



332
357
382
213.6±0.5
Ø239.8±0.2

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