# DH-SD6AE530U-HNI

5MP 30x IR PTZ Network Camera

- · 1/1.9" 6Megapixel STARVIS™ CMOS
- · Powerful 30x optical zoom
- · H.265 Encoding
- · Max. 20fps@6M, 25/30fps@5M/3M(Realtime)
- · 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 powerful optical zoom and accurate pan/tilt/zoom performance, the camera can provide large monitoring range and great detail. It is equipped with quick and smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

## Functions

### 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.

### 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.

### 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 to +70 °C (-40 °F to +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 most 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

### Camera

| | |
|---|---|
| Image Sensor | 1/1.9" STARVIS™ CMOS |
| Effective Pixels | 2560(H) x 1920(V), 5 Megapixels |
| RAM/ROM | 1024M/128M |
| Scanning System | Progressive |
| Electronic Shutter Speed | 1/1s~1/30,000s |
| Minimum Illumination | Color: 0.05Lux@F1.6;B/W: 0.005Lux@F1.6; 0Lux@F1.6 (IR on) |
| IR Distance | Distance up to 200m (656ft) |
| IR On/Off Control | Auto/Manual |
| IR LEDs | 10 |

### Lens

| | |
|---|---|
| Focal Length | 6mm~180mm |
| Max. Aperture | F1.5 ~ F4.3 |
| 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 |
|---|---|---|---|
| 2250m(7832ft) | 900m(2953ft) | 450m(1476ft) | 225m(738ft) |

### 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

| | |
|---|---|
| Event Trigger | Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly |
| Auto Tracking | Support |
| IVS | Tripwire, Intrusion, Abandoned/Missing |
| Advanced Intelligent Functions | Face Detection, Heat Map |

### Video

| | |
|---|---|
| Compression | H.265 / H.264 |
| Streaming Capability | 3 Streams |
| Resolution | 6M(3072x2048)/5M(2560×1920)/3M(2048×1536)/1080P (1920×1080)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240) |
| Frame Rate | Main stream: 6M(1~20fps) /5M/3M(1~25/30fps), 1080P/1.3M/720P(1~50/60fps) |
| | Sub stream1: D1/CIF(1 ~ 25/30fps) |
| | Sub stream2: 5M/1080P/1.3M/720P/D1/CIF (1~25/30fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.265/H.264: 448K ~ 8192Kbps |
| 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 Detection | 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/AAC/G.722/ G.726/MPEG2-L2 |

### Network

| | |
|---|---|
| Ethernet | RJ-45 (10Base-T/100Base-TX) |
| 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 Profile S&G, API |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 20 users |
| Edge Storage | NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB |
| Web Viewer | IE, Chrome, Firefox, Safari |
| Management Software | Smart PSS, DSS, DMSS |
| 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 |
|---|---|

**Electrical**

| 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%),  Hi-PoE |
|---|---|
| Power Consumption | 24W, 38W (IR 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 | Φ240(mm) x 382 (mm) |
| Net Weight | 6.75kg(14.88lb) |
| Gross Weight | 10.1kg(22.27lb) |

## Ordering Information

| Type | Part Number | Description |
|---|---|---|
| 5MP  PTZ Camera | DH-SD6AE530U-HNI | 5MP 30x IR PTZ Network Camera, PAL |
| | DH-SD6AE530UN-HNI | 5MP 30x IR PTZ Network Camera, NTSC |
| | SD6AE530U-HNI | 5MP 30x IR PTZ Network Camera, PAL |
| | SD6AE530UN-HNI | 5MP 30x IR PTZ Network Camera, NTSC |
| Accessories | PFB303W | Wall Mount |
| | PFA111 | Mount Adapter |
| | AC24V/3A | Power Adapter |
| | PFA140 | Power Box |
| | PFB300C | Ceiling Mount |
| | PFA120 | Junction Box |
| | PFA150 | Pole Mount |
| | PFA151 | Corner Mount |
| | PFB303S | Parapet Mount |
| | PFA151 | Corner Mount |
| | PFB303S | Parapet Mount |

## Accessories

Included:



PFB303W
Wall Mount

PFA111
Mount Adapter
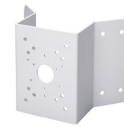
AC24V/3A
Power Adapter

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)**

Ø46.3mm

Ø50mm

Ø174mm

Ø382mm

Ø214mm

Ø240mm