

DH-SD6AE240V-HNI

2MP 40x Starlight IR PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 40x optical zoom
- Starlight technology
- H.265 Encoding
- Max. 50/60fps@1080P
- Support Hi-PoE
- IR distance up to 200m
- IP67 , IK10



System Overview

Ultra series adopts top-notch DSP and advanced image sensor, which can offer excellent image performance for different environmental applications. The series supports UHD image up to 4K resolution, large optical zoom up to 48x, ultra starlight and WDR, powerful pan/tilt/zoom performance and etc. It also supports smart plan, such as IVS, face detection, heatmap and auto-tracking. The monitoring range is larger than before, the series is ideal for use in city and perimeter surveillance. Meanwhile, it is fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard. The ultra series offers industry-leading IR capability of more than 200m.

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.

Ultra-Wide Dynamic Range

For applications with both bright and low lighting conditions that change quickly, Ultra WDR (140 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.

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 making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. 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) 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 |
| Scanning System | Progressive |
| Electronic Shutter Speed | 1/1s~1/30,000s |
| Minimum Illumination | Color: 0.005Lux@F1.2; 0Lux@F1.2 (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

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|----------------------|-----------------|
| Focal Length | 4.5mm~180mm |
| Max. Aperture | F1.2 ~ F3.5 |
| Angle of View | H: 67.5° ~ 1.7° |
| Optical Zoom | 40x |
| 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 |
|---------------|--------------|--------------|-------------|
| 2469m(8100ft) | 988m(3241ft) | 494m(1621ft) | 247m(810ft) |

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

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

Video

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|--------------------------------------|---|
| Compression | H.265+/H.265/H.264+/H.264/MJPEG |
| Streaming Capability | 3 Streams |
| Resolution | 1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240) |
| Frame Rate | Main stream: 1080P(1~50/60fps), 1.3M/720P(1~25/30fps) 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 / WDR(140dB) |
| 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 |
| Optical Defog | Support |
| Digital Zoom | 16x |
| Flip | 180° |
| Privacy Masking | Up to 24 areas |

Audio

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

Network

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|---------------------|--|
| Ethernet | RJ-45 (100XBase-T/1000Base-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 | 1 |
| Audio Interface | 1/1 |
| RS485 | 1 |
| Alarm I/O | 7/2 |

Electrical

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

Environmental

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

Construction

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|--------------|---------------------|
| Casing | Metal |
| Dimensions | Ø240(mm) x 382 (mm) |
| Net Weight | 6.75kg(14.88lb) |
| Gross Weight | 10.1kg(22.27lb) |

Ordering Information

| Type | Part Number | Description |
|----------------|-------------------|--|
| 2MP PTZ Camera | DH-SD6AE240V-HNI | 2MP 40x Starlight IR PTZ Network Camera, WDR, PAL |
| | DH-SD6AE240VN-HNI | 2MP 40x Starlight IR PTZ Network Camera, WDR, NTSC |
| | SD6AE240V-HNI | 2MP 40x Starlight IR PTZ Network Camera, WDR, PAL |
| | SD6AE240VN-HNI | 2MP 40x Starlight IR PTZ Network Camera, WDR, 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



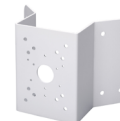
PFB300C
Ceiling Mount



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)

