

# DH-SD6AL240-HNI

2MP 40x Laser PTZ Network Camera



- 1/2.8" 2Megapixel Exmor CMOS
- Powerful 40x optical zoom
- Max. 30fps@1080P and 60fps@720P
- Support Hi-PoE
- IR distance up to 500m
- IP67



## System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, this series provides an all-in-one solution for capturing long distance video surveillance for outdoor applications with laser and 40x optical zoom. The series combines a day/night mechanical IR cut filter for the highest image quality for variable lighting conditions during the day for applications with direct sunlight or glare.

## Functions

### Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

### Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. 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 protection 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.

### Technical Specification

#### Camera

|                      |                                       |
|----------------------|---------------------------------------|
| Image Sensor         | 1/2.8" Exmor CMOS                     |
| Effective Pixels     | 1920(H) x 1080(V), 2 Megapixels       |
| RAM/ROM              | 512M/32M                              |
| Scanning System      | Progressive                           |
| Minimum Illumination | Color: 0.05Lux@F1.6; 0Lux@1.6 (IR on) |
| S/N Ratio            | More than 56dB                        |
| IR Distance          | Distance up to 500m (1640ft)          |
| IR On/Off Control    | Auto/Manual                           |
| IR LEDs              | Laser module                          |

#### Lens

|                      |                 |
|----------------------|-----------------|
| Focal Length         | 7.9mm~316mm     |
| Max. Aperture        | F1.6~ F6.1      |
| Angle of View        | H: 41.5° ~ 1.1° |
| Optical Zoom         | 40x             |
| Focus Control        | Auto/Manual     |
| Close Focus Distance | 100mm~ 1000mm   |

#### 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 (optional) | Tripwire, Intrusion, Abandoned/Missing, Face Detection |

#### Video

|                      |  |  |
|----------------------|--|--|
| Compression          | H.264+/H.264 / MJPEG   |  |
| Streaming Capability | 3 Streams  |  |
| Resolution           | 1080P(1920x1080)/720P(1280x720)/D1(704x576/704x480)/CIF(352x288/352x240) |  |
| Frame Rate           | Main stream  | 1080P/D1(1~25/30fps), 720P(1~50/60fps) |
|                      | Sub stream1  | D1/CIF(1 ~ 25/30fps)                   |
|                      | Sub stream2  | 720P/D1/ CIF (1 ~ 25/30fps)            |

|                                      |   |
|--------------------------------------|---|
| Bit Rate Control                     | CBR/VBR   |
| Bit Rate                             | H.264+/H.264:56K~8192Kbps, MJPEG: 56K ~ 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.711u(32kbps)/PCM(128kbps) |
|-------------|------------------------------------|

#### 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, 128GB   |
| Web Viewer          | IE10/Google/Firefox/Safari...  |
| Management Software | Smart PSS, DSS   |
| Smart Phone         | iPhone, iPad, Android, Windows Phone   |

#### 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    | N/A  |

Construction

|              |                    |
|--------------|--------------------|
| Casing       | Metal              |
| Dimensions   | Ø240(mm) x 357(mm) |
| Net Weight   | 6.75kg(14.88lb)    |
| Gross Weight | 10.5kg(23.15lb)    |

Ordering Information

| Type           | Part Number      | Description                            |
|----------------|------------------|--|
| 2MP PTZ Camera | DH-SD6AL240-HNI  | 2MP 40x Laser PTZ Network Camera, PAL  |
|                | DH-SD6AL240N-HNI | 2MP 40x Laser PTZ Network Camera, NTSC |
|                | SD6AL240-HNI     | 2MP 40x Laser PTZ Network Camera, PAL  |
|                | SD6AL240N-HNI    | 2MP 40x Laser 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



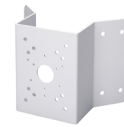
PFB300C  
Ceiling Mount



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)

