

DH-SDZ2030S-N

2MP 30x Starlight Zoom Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 30x optical zoom
- Starlight technology
- H.265 Encoding
- Max. 50/60fps@1080P
- IVS
- Support PoE



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 0.005 lux. 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.

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.

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.

Protection

The camera allows for 6KV lightning rating to provide 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 |
| RAM/ROM | 512M/128M |
| Scanning System | Progressive |
| Electronic Shutter Speed | 1/1s~1/30,000s |
| Minimum Illumination | Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6 |
| S/N Ratio | More than 55dB |
| IR Distance | N/A |
| IR On/Off Control | N/A |
| IR LEDs | N/A |

Lens

| | |
|----------------------|-----------------|
| Focal Length | 4.5mm~135mm |
| Max. Aperture | F1.6 ~ F4.4 |
| Angle of View | H: 67.8° ~ 2.4° |
| 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 |
|---------------|--------------|--------------|--------------|
| 1862m(6109ft) | 744m(2441ft) | 372m(1220ft) | 372m(1220ft) |

Intelligence

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

Video

| | |
|------------------------|--|
| Compression | H.265/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/720P(1 ~ 50/60fps), 1.3M(1 ~ 25/30fps) Sub stream1: D1/CIF(1 ~ 25/30fps) Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps |
| Day/Night | Auto(ICR) / Color / B/W |
| Backlight Compensation | BLC / HLC / WDR (120dB) |

| | |
|--------------------------------------|--------------------------------|
| 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 |
| Privacy Masking | Up to 24 areas |

Audio

| | |
|-------------|--|
| Compression | G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2 |
|-------------|--|

Network

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|---------------------|--|
| 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, 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

| | |
|-----------------|-----------------------------|
| Video Interface | 1 port(BNC, 1.0V[p-p], 75Ω) |
| RS485 | 1 |
| RS232 | 1 |
| Audio I/O | 1/1 |
| Alarm I/O | 2/1 |

Electrical

| | |
|-------------------|--------------------------|
| Power Supply | DC12V/1.5A, PoE(802.3af) |
| Power Consumption | 10W |

Environmental

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

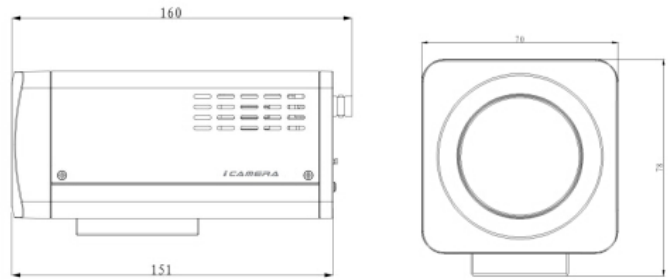
Construction

| | |
|------------|------------------|
| Casing | Metal |
| Dimensions | Φ160mm×70mm×70mm |
| Net Weight | 1.0kg(2.20lb) |

Ordering Information

| Type | Part Number | Description |
|-----------------|----------------|--|
| 2MP Zoom Camera | DH-SDZ2030S-N | 2MP 30x Starlight Zoom Network Camera, WDR, PAL |
| | DH-SDZ2030SN-N | 2MP 30x Starlight Zoom Network Camera, WDR, NTSC |
| | SDZ2030S-N | 2MP 30x Starlight Zoom Network Camera, WDR, PAL |
| | SDZ2030SN-N | 2MP 30x Starlight Zoom Network Camera, WDR, NTSC |
| Accessories | DC12V/2A | Power Adapter |
| | PFH610N | Housing |
| | PFH610N-W | Housing |

Dimensions (mm)



Accessories

Optional :



DC12V/2A
Power Adapter



PFH610N
Housing



PFH610N-W
Housing