

DH-SD6C3220-HN-UE

2MP 20x Starlight IR PTZ Network Camera



- · 1/2.9" 2Megapixel CMOS
- · Powerful 20x optical zoom
- · Starlight technology
- · H.265 Encoding
- Max. 25/30fps@1080P
- · IVS
- · IR distance up to 150m
- · IP66







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 0.05lux. 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, 120 dB WDR optimizes both the bright and dark areas of a scene at the same time to provide usable video.

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.

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 $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV 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 Spe | cification | | | | | IVS | Tripwire, Intrusion, Abandoned/Missing |
|--|------------|---|-------------------------------------|---|---------------------|--------------------------------------|---|
| Camera | | | | | | Advanced Intelligent Functions | Face Detection |
| Image Sensor | | 1/2.9" STARVIS™ CMOS | | | Video | | |
| Effective Pixels | | 1920(H) x 1080(V), 2 Megapixels | | | | Compression | H.265+/H.265/H.264+/H.264/M-JPEG(Sub Stream) |
| RAM/ROM | | 256M/128M | | | | Streaming Capability | 3 Streams |
| Scanning System | | Progressive | | | | Resolution | 1080P(1920×1080)/1.3M(1280×960)/720P(1280x 720)/D1(704×576/704×480)/CIF(352×288/352×240' |
| Electronic Shutter Speed | | 1/1s~1/30,000s | | | | Frame Rate | Main stream: 1080P/1.3M/720P(1~25/30fps) |
| Minimum Illumination | | Color: 0.05Lux@F1.5; B/W: 0.005Lux@F1.6; 0Lux@F1.6 (IR on) | | | | | Sub stream1: D1/CIF(1 ~ 25/30fps) |
| S/N Ratio | | More than 55dB | | | | | Sub stream2: 1080P/1.3M/720P/D1/CIF |
| IR Distance | | Distance up to 150m (492ft) | | | | | (1~25/30fps) |
| IR On/Off Control | | Auto/Manual | | | | Bit Rate Control | CBR/VBR |
| IR LEDs | | 6 | | | | Bit Rate | H.265/H.264: 448K ~ 8192Kbps |
| Lens | | 0 | | | | Day/Night | Auto(ICR) / Color / B/W |
| | | 4.7mm | ı~94mm | | | Backlight Compensation | BLC / HLC / DWDR (120dB) |
| Focal Length | | | | | | White Balance | Auto, ATW, Indoor, Outdoor, Manual |
| Max. Aperture | | F1.5 ~ F2.7 | | | | Gain Control | Auto / Manual |
| Angle of View | | | 2° ~ 2.9° | | | Noise Reduction | Ultra DNR (2D/3D) |
| Optical Zoom | | 20x | | | | Motion Detection | Support |
| Focus Control | | Auto/Manual | | | | Region of Interest | Support |
| Close Focus Distance | | 100mm~ 500mm | | | | Electronic Image Stabilization (EIS) | Support |
| DORI Distance | | | | Defog | Support | | |
| *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 | | | | Digital Zoom | 16x | | |
| criteria for Detect, Observe, Recog | | | - | which defines the | | Flip | 180° |
| Detect | Observe | | Recognize | Identify | | Privacy Masking | Up to 24 areas |
| 1386m(4547ft) | 554m(1817f | t) | 277m(908ft) | 139m(456ft) | | Audio | |
| РТZ | | | Compression | G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2 | | | |
| Pan/Tilt Range | | Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180° | | | | Network | |
| Manual Control Speed | | Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s | | | | Ethernet | RJ-45 (10Base-T/100Base-TX) |
| Preset Speed Presets | | Pan: 160° /s; Tilt: 80° /s 300 | | | | Protocol | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SMMP, RTSP, RTP, SMTP, NTP, DHCP, |
| PTZ Mode | | 5 Pattern, 8 Tour, Auto Pan ,Auto Scan | | | | 1.45 | DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x |
| Speed Setup | | Human-oriented focal Length/ speed adaptation | | | | Interoperability | ONVIF Profile S&G&T, API |
| | | Auto restore to previous PTZ and lens status after | | | | Streaming Method | Unicast / Multicast |
| Power up Action | | power failure | | | | Max. User Access | 20 users |
| Idle Motion | | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period | | | | Edge Storage | NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB |
| Protocol | | DH-SD, | DH-SD, Pelco-P/D (Auto recognition) | | | Web Viewer | IE, Chrome, Firefox, Safari |
| Intelligence | | | | | Management Software | Smart PSS, DSS, DMSS | |
| Event Trigger | | Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly | | | Smart Phone | IOS, Android | |
| | | | | | | | |

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 | NA |
|-----------------|----|
| RS485 | NA |
| Audio I/O | NA |
| Alarm I/O | NA |

Electrical

| Power Supply | AC24V/3A(±25%) |
|-------------------|-----------------|
| Power Consumption | 8W, 26W (IR on) |

Environmental

| Operating Conditions | -40°C $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH |
|----------------------|--|
| Ingress Protection | IP66 |
| Vandal Resistance | N/A |

Construction

| Casing | Metal |
|--------------|--------------------|
| Dimensions | Ф202(mm) x 325(mm) |
| Net Weight | 4.0kg(8.82lb) |
| Gross Weight | 6.7kg(14.77lb) |

Ordering Information Part Number Description Туре 2MP 20x Starlight IR PTZ DH-SD6C3220-HN-UE Network Camera, WDR, PAL 2MP 20x Starlight IR PTZ DH-SD6C3220N-HN-UE Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 20x Starlight IR PTZ SD6C3220-HN-UE Network Camera, WDR, PAL 2MP 20x Starlight IR PTZ SD6C3220N-HN-UE Network Camera, WDR, NTSC PFB303W Wall Mount Accessories AC24V/3A Power Adapter PFA114 Mount Adapter

Accessories

Included:







PFA114 Mount Adapter

Optional:



PFB303W Wall Mount

Dimensions (mm)

