

DH-SD22204UE-GN

2MP 4x Starlight PTZ Network Camera



- · 1/2.8" STARVIS™ CMOS
- · Powerful 4x optical zoom
- · Support triple-streams encoding
- · WDR, Day/Night(ICR), Ultra DNR
- · Max. 25/30fps@1080P
- · Max 100°/s pan speed
- · IVS
- · Support PoE
- · IP66, IK10













System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera provides a wide monitoring range and great detail. The camera delivers 2MP resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

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

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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30 °C to +60 °C (-22 °F to +140 °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 IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

| Technical Specification | | | | IVS | Tripwire, Intrusion, Abandoned/Missing |
|---|------------------------------------|--|--|--------------------------------------|---|
| Camera | | | | Advanced Intelligent Functions | Face Detection |
| Image Sensor 1/2 | | 1/2.8" STARVIS™ CMOS | | Video | |
| Effective Pixels 19 | | 1920(H) x 1080(V), 2 Megapixels | | Compression | H.265/H.264/MJPEG(Sub Stream) |
| RAM/ROM 2 | | 256M/128M | | Streaming Capability | 3 Streams |
| Electronic Shutter Speed | | 1/1s~1/30,000s | | Resolution | 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240) |
| Scanning System | | Progressive | | | Main stream: 1080P/720P/D1 (1 ~ 25/30fps) |
| Minimum Illumination | | Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6 | | Frame Rate | Sub stream1: D1/CIF(1 ~ 25/30fps) |
| IR Distance | | N/A | | | Sub stream2: 720P/D1/CIF (1 ~ 25/30fps) |
| IR On/Off Control | | N/A | | Bit Rate Control | CBR/VBR |
| IR LEDs | | N/A | | Bit Rate | H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps |
| | | 2.7mm~11mm | | Day/Night | Auto(ICR) / Color / B/W |
| Focal Length Max. Aperture | | F1.6 | | Backlight Compensation | BLC / HLC / WDR (120dB) |
| Angle of View | | H: 112.5° ~ 30° | | White Balance | Auto,ATW,Indoor,Outdoor,Manual |
| - | | | | Gain Control | Auto / Manual |
| Optical Zoom 4x | | | | Noise Reduction | Ultra DNR (2D/3D) |
| | | Auto/Manual 100mm~ 1000mm | | Motion Detection | Support |
| DORI Distance | .c | 100//// | | Region of Interest | Support |
| | stance is a "gen | eral proximity" of distance v | which makes it easy to | Electronic Image Stabilization (EIS) | N/A |
| pinpoint the right casensor specification | amera for your in and lab test res | needs. The DORI distance is sult according to EN 62676- nize and Identify respectivel | calculated based on 4 which defines the | Defog | Support |
| Detect | Observe | Recognize | Identify | Digital Zoom | 16x |
| 124.1m(407ft) | 49.7m(163ft | | 12.4m(40ft) | Flip | 180° |
| PTZ | , , , | - () | (/ | Privacy Masking | Up to 24 areas |
| Pan/Tilt Range | | Pan: 0° ~ 355°; Tilt: 0° ~ 90° | | Network | |
| Manual Control Spe | ed | Pan: 0.1° ~100° /s; Tilt: 0.1° ~60° /s | | Ethernet | RJ-45 (10XBase-T/100Base-TX) |
| Preset Speed | | Pan: 100° /s; Tilt: 60° /s | | Wi-Fi | N/A |
| | | 300 | | 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,802.1 |
| PTZ Mode | | 8 Tour(up to 32 preset per tour) | | Interoperability | ONVIF Profile S&G, API |
| Speed Setup | | Human-oriented focal Length/ speed adaptation | | Streaming Method | Unicast / Multicast |
| POWER IID ACTION | | Auto restore to previous PTZ and lens status after power failure | | Max. User Access | 20 users |
| Idle Motion | | Activate Preset/Tour if there is no command in the specified period | | Edge Storage | NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB |
| Protocol | | DH-SD | | Web Viewer | IE, Chrome, Firefox, Safari |
| Intelligence | | | Management Software | Smart PSS, DSS, DMSS | |
| Event Trigger | | Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly | | Smart Phone | IOS, Android |
| | | | | Certifications | |
| Auto Tracking | | N/A | | Certifications | CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 |

Interface

| Video Interface | N/A |
|-----------------|-----|
| RS485 | N/A |
| Audio I/O | N/A |
| Alarm I/O | N/A |

Electrical

| Power Supply | DC 12V/1.5A, PoE(802.3af) |
|-------------------|---------------------------|
| Power Consumption | 5.5W |

Environmental

| Operating Conditions | -30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 95% RH |
|----------------------|--|
| Ingress Protection | IP66 |
| Vandal Resistance | IK10 |

Construction

| Casing | Metal |
|--------------|---------------------|
| Dimensions | Ф122 (mm) x 89 (mm) |
| Net Weight | 0.52kg(1.23lb) |
| Gross Weight | 0.73kg(1.61lb) |

Ordering Information Type Part Number Description 2MP 4x Starlight PTZ Network DH-SD2220UE-GN Camera, WDR, PAL 2MP 4x Starlight PTZ Network DH-SD22204UEN-GN Camera, WDR, NTSC 2MP PTZ Camera 2MP 4x Starlight PTZ Network SD22204UE-GN Camera, WDR, PAL 2MP 4x Starlight PTZ Network SD22204UEN-GN Camera, WDR, NTSC PFA137 Mount Adapter DC12V/2A Power Adapter PFB203W Wall Mount Accessories PFB200C In-ceiling Mount PFA152-E Pole Mount

Accessories

Optional:







PFA137 Mount Adapter

DC12V/2A Power Adapter

PFB203W Wall Mount



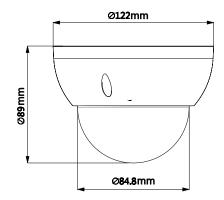


PFA152-E Pole Mount

PFB200C Ceiling Mount

| Wall Mount | In-ceiling Mount | |
|--------------------|--------------------|--|
| PFB203W | PFB200C | |
| | | |
| Junction Box Mount | Pole Mount | |
| PFA137 | PFB203W + PFA152-E | |
| | | |

Dimensions (mm)



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