

# DH-SD22404T-GN

4MP 4x PTZ Network Camera



- 1/3" 4Megapixel CMOS
- Powerful 4x optical zoom
- WDR, Day/Night(ICR), Ultra DNR
- Max. 25/30fps@4M/3M
- 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 4MP 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.

### 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**

|                          |   |
|--------------------------|---|
| <b>Camera</b>            |   |
| Image Sensor             | 1/3" CMOS                               |
| Effective Pixels         | 2592(H) x 1520(V), 4 Megapixels         |
| RAM/ROM                  | 256M/128M                               |
| Electronic Shutter Speed | 1/1s~1/30,000s                          |
| Scanning System          | Progressive                             |
| Minimum Illumination     | Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6 |
| S/N Ratio                | More than 50dB                          |
| IR Distance              | N/A                                     |
| IR On/Off Control        | N/A                                     |
| IR LEDs                  | N/A                                     |

|                      |                 |
|----------------------|-----------------|
| <b>Lens</b>          |                 |
| Focal Length         | 2.7mm~11mm      |
| Max. Aperture        | F1.6 ~ F2.8     |
| Angle of View        | H: 112.5° ~ 30° |
| Optical Zoom         | 4x              |
| 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  |
| 180m(591ft) | 72m(236ft) | 36m(118ft) | 18m(59ft) |

|                      |   |
|----------------------|---|
| <b>PTZ</b>           |   |
| Pan/Tilt Range       | Pan: 0° ~ 355°; Tilt: 0° ~ 90°  |
| Manual Control Speed | Pan: 0.1° ~100° /s; Tilt: 0.1° ~60° /s  |
| Preset Speed         | Pan: 100° /s; Tilt: 60° /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   |

|                     |  |
|---------------------|--|
| <b>Intelligence</b> |  |
| Event Trigger       | Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly |
| Auto Tracking       | N/A  |

|                                      |  |
|--------------------------------------|--|
| IVS                                  | Tripwire, Intrusion, Abandoned/Missing   |
| Advanced Intelligent Functions       | Face Detection   |
| <b>Video</b>                         |  |
| Compression                          | H.265/H.264  |
| Streaming Capability                 | 3 Streams  |
| Resolution                           | 4M(2592×1520)/3M(2304×1296)/1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)   |
| Frame Rate                           | Main stream: 4M/3M/1080P/1.3M/720P (1~25/30fps)  |
|                                      | Sub stream1: D1/CIF(1 ~ 25/30fps)  |
|                                      | Sub stream2: 720P/D1/CIF (1~25/30fps)  |
| Bit Rate Control                     | CBR/VBR  |
| Bit Rate                             | H.265/H.264: 448K ~ 8192Kbps   |
| 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) | N/A  |
| Defog                                | Support  |
| Digital Zoom                         | 16x  |
| Flip                                 | 180°   |
| Privacy Masking                      | Up to 24 areas   |
| <b>Network</b>                       |  |
| Ethernet                             | RJ-45 (10XBase-T/100Base-TX)   |
| Wi-Fi                                | N/A  |
| 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 Profile S&G, API   |
| Streaming Method                     | Unicast / Multicast  |
| Max. User Access                     | 20 users   |
| Edge Storage                         | NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB   |
| Web Viewer                           | IE, Chrome, Firefox, Safari  |
| Management Software                  | Smart PSS, DSS, DMSS   |
| Smart Phone                          | IOS, Android   |

|                       |   |
|-----------------------|---|
| <b>Certifications</b> |   |
| 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 | 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 | 10W                       |

Environmental

|                      |  |
|----------------------|--|
| Operating Conditions | -30°C ~ 60°C (-22°F ~ +140°F) / Less than 95% RH |
| Ingress Protection   | IP66   |
| Vandal Resistance    | IK10   |

Construction

|              |                     |
|--------------|---------------------|
| Casing       | Metal               |
| Dimensions   | Φ122 (mm) x 89 (mm) |
| Net Weight   | 0.66kg(1.46lb)      |
| Gross Weight | 0.71kg(1.57lb)      |

Ordering Information

| Type           | Part Number     | Description                          |
|----------------|-----------------|--------------------------------------|
| 4MP PTZ Camera | DH-SD22404T-GN  | 4MP 4x PTZ Network Camera, WDR, PAL  |
|                | DH-SD22404TN-GN | 4MP 4x PTZ Network Camera, WDR, NTSC |
|                | SD22404T-GN     | 4MP 4x PTZ Network Camera, WDR, PAL  |
|                | SD22404TN-GN    | 4MP 4x PTZ Network Camera, WDR, NTSC |
| Accessories    | PFA137          | Mount Adapter                        |
|                | DC12V/2A        | Power Adapter                        |
|                | PFB203W         | Wall Mount                           |
|                | 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)

