

DH-SD42C212T-HN

2MP 12x Starlight PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 12x optical zoom
- · Support Triple-streams encoding
- · Max. 25/30fps@1080P
- · IVS
- · Support PoE+
- · 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 1080P 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

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.

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 -30 °C to +60 °C (-22 °F to +140 °F) with 90% humidity. The camera complies with the IK10 Vandal Resistance impact rating.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 2KV 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 Specification | | | | | | Advanced Intelligent Functions | Face Detection |
|--|---------------------------------|--|------------------------|------------------------|----------------------|---------------------------------------|--|
| Camera | | | | Video | | | |
| Image Sensor 1/2 | | 1/2.8" STARVIS™ CMOS | | | | Compression | H.265+/H.265/H.264+/H.264 |
| Effective Pixels | 1920(H) x 1080(V), 2 Megapixels | | | | Streaming Capability | 3 Streams | |
| RAM/ROM 1024 | | | 1024M/128M | | | Resolution | 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240) |
| Scanning System | Progressive | | | | Frame Rate | Main stream: 1080P/720P(1 ~ 25/30fps) | |
| Electronic Shutter Speed | | 1/1s~1/30,000s | | | | | Sub stream1: D1/CIF(1 ~ 25/30fps) |
| Minimum Illumination Co | | Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6 | | | | | Sub stream2: 720P/D1/CIF(1 ~ 25/30fps) |
| S/N Ratio Me | | More than 55dB | | | | Bit Rate Control | CBR/VBR |
| IR Distance | ! | N/A | | | | Bit Rate | H.265/H.264: 448K ~ 8192Kbps |
| IR On/Off Control | 1 | N/A | | | | Day/Night | Auto(ICR) / Color / B/W |
| IR LEDs | | N/A | | | | Backlight Compensation | BLC / HLC / WDR(120dB) |
| Lens | | | | | | White Balance | Auto, ATW, Indoor, Outdoor, Manual |
| Focal Length 5.3mm | | 5.3mm~64 | 5.3mm~64mm | | | Gain Control | Auto / Manual |
| Max. Aperture F1.6 ^ | | F1.6 ~ F4.4 | 4 | | | Noise Reduction | Ultra DNR (2D/3D) |
| Angle of View H: 58. | | H: 58.2° ~ | H: 58.2° ~ 4.8° | | | Motion Detection | Support |
| Optical Zoom 12x | | 12x | | | | Region of Interest | Support |
| Focus Control Aut | | Auto/Manual | | | | Electronic Image Stabilization | |
| Close Focus Distance 100 | | 100mm~ 1000mm | | | | (EIS) | N/A |
| DORI Distance | | | | | | Defog | Support |
| *Note: The DORI dis | | | | | | Digital Zoom | 16x |
| pinpoint the right camera for your needs. The DORI distance is calculated base sensor specification and lab test result according to EN 62676-4 which defines criteria for Detect, Observe, Recognize and Identify respectively. | | | | | Flip | 180° | |
| Detect Observe | | Recognize Identify | | | Privacy Masking | Up to 24 areas | |
| 883m(2897ft) | 353m(1158ft) | | 77m(581ft) | 88m(289ft) | | Audio | |
| PTZ | 33311(11301) | 17 | //m(301it) | 00111(20311) | | Compression | G.711a/G.711Mu/G.726/AAC |
| Pan/Tilt Range | | Pan: ∩° ~ 3 | 360° andlass: Tilt: -2 | ° ~ 90° auto flin 180° | | Network | |
| Manual Control Spe | | Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180° Pan: 0.1° ~300° /s; Tilt: 0.1° ~120° /s | | | Ethernet | RJ-45 (10XBase-T/100Base-TX) | |
| Preset Speed | | | /s; Tilt: 200° /s | 120 /3 | | Protocol | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, DDNS, STP, IN Filter Occ. Regions 803.1v. |
| Presets | : | 300 | | | | Interoperability | DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x ONVIF Profile S&G, API |
| PTZ Mode | ! | 5 Pattern, | 8 Tour, Auto Pan ,A | uto Scan | | | Unicast / Multicast |
| Speed Setup | 1 | Human-oriented focal Length/ speed adaptation | | | | Streaming Method | 20 users |
| Power up Action | | Auto restore to previous PTZ and lens status after power failure | | | | Max. User Access | NAS (Network Attached Storage),Local PC for |
| Idle Motion | | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period | | | | Edge Storage | instant recording, Micro SD card 256GB |
| 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 |
| IVS | | Tripwire, Intrusion, Abandoned/Missing | | | | | UL: UL60950-1+CAN/CSA C22.2,No.60950-1 |

Interface

| Video Interface | N/A |
|-----------------|-----|
| RS485 | N/A |
| Audio I/O | 1/1 |
| Alarm I/O | 2/1 |

Electrical

| Power Supply | AC 24V/1.5A(±10%), PoE+(802.3at) |
|-------------------|----------------------------------|
| Power Consumption | 12W |

Environmental

| Operating Conditions | -30°C ~ 60°C (-22°F ~ +140°F) / Less than 90% RH |
|----------------------|--|
| Ingress Protection | N/A |
| Vandal Resistance | IK10 |

Construction

| Casing | Metal |
|--------------|------------------|
| Dimensions | Ф198(mm)×158(mm) |
| Net Weight | 2.3kg(5.07lb) |
| Gross Weight | 3.3kg(7.28lb) |

| Ordering Information | | | | |
|----------------------|------------------|--|--|--|
| Туре | Part Number | Description | | |
| | DH-SD42C212T-HN | 2MP 12x Starlight PTZ Network Camera, WDR, PAL | | |
| 2MP PTZ | DH-SD42C212TN-HN | 2MP 12x Starlight PTZ Network Camera, WDR, NTSC | | |
| Camera | SD42C212T-HN | 2MP 12x Starlight PTZ Network Camera, WDR, PAL | | |
| | SD42C212TN-HN | 2MP 12x Starlight PTZ Network Camera, WDR, NTSC | | |
| Accessories | AC24V/1.5A | Power Adapter | | |

Accessories

Included:



AC24V/1.5A Power Adapter

Dimensions (mm)



