

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 1/2.8" STARVIS™ CMOS H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream) Compression 1920(H) x 1080(V), 2 Megapixels Effective Pixels Streaming Capability 3 Streams RAM/ROM 1024M/128M 1080P(1920×1080)/720P(1280×720)/ Resolution D1(704×576/704×480)/CIF(352×288/352×240) Scanning System Progressive Main stream: 1080P/720P(1 ~ 25/30fps) **Electronic Shutter Speed** 1/1s~1/30,000s Frame Rate Sub stream1: D1/CIF(1 ~ 25/30fps) Minimum Illumination Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6 Sub stream2: 720P/D1/CIF(1 ~ 25/30fps) IR Distance N/A Bit Rate Control CBR/VBR IR On/Off Control N/A H.265/H.264: 448K ~ 8192Kbps Bit Rate IR LEDs N/A Day/Night Auto(ICR) / Color / B/W Lens BLC / HLC / WDR(120dB) **Backlight Compensation** 5.3mm~64mm Focal Length White Balance Auto, ATW, Indoor, Outdoor, Manual Max. Aperture F1.6 ~ F4.4 Gain Control Auto / Manual H: 58.2° ~ 4.8° Angle of View Noise Reduction Ultra DNR (2D/3D) 12x Optical Zoom Motion Detection Support Focus Control Auto/Manual Region of Interest Support Close Focus Distance 100mm~ 1000mm **Electronic Image Stabilization** N/A (EIS) **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 Digital Zoom 16x sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively. Flip 180° Detect Observe Identify Recognize Up to 24 areas Privacy Masking 883m(2897ft) 353m(1158ft) 177m(581ft) 88m(289ft) Audio PTZ Compression G.711a/G.711Mu/G.726/AAC Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180° Pan/Tilt Range Network Manual Control Speed Pan: 0.1° ~300° /s; Tilt: 0.1° ~120° /s Ethernet RJ-45 (10XBase-T/100Base-TX) Preset Speed Pan: 300° /s; Tilt: 200° /s IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, Presets ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, Protocol DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x PT7 Mode 5 Pattern, 8 Tour, Auto Pan ,Auto Scan ONVIF Profile S&G. API Interoperability Speed Setup Human-oriented focal Length/ speed adaptation Streaming Method Unicast / Multicast Auto restore to previous PTZ and lens status after Power up Action power failure Max. User Access 20 users Activate Preset/ Scan/ Tour/ Pattern if there is no Idle Motion NAS (Network Attached Storage), Local PC for command in the specified period Edge Storage instant recording, Micro SD card 256GB DH-SD Protocol Web Viewer IE, Chrome, Firefox, Safari Intelligence Management Software Smart PSS DSS DMSS Motion detection, Video tampering, Network **Event Trigger** disconnection, IP address conflict, Illegal access, Smart Phone IOS, Android Storage anomaly Certifications **Auto Tracking**

Certifications

Tripwire, Intrusion, Abandoned/Missing

IVS

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	N/A
RS485	N/A
Audio I/O	1/1
Alarm I/O	2/1

Electrical

Power Supply	DC 24V/2.5A(±25%), PoE+(802.3at)
Power Consumption	12W

Environmental

Operating Conditions	-30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 90% RH
Ingress Protection	N/A
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ198(mm)×158(mm)
Net Weight	2.3kg(5.07lb)
Gross Weight	3.3kg(7.28lb)

Ordering Information				
Туре	Part Number	Description		
2MP PTZ Camera	DH-SD42C212T-HN	2MP 12x Starlight PTZ Network Camera, WDR, PAL		
	DH-SD42C212TN-HN	2MP 12x Starlight PTZ Network Camera, WDR, NTSC		
	SD42C212T-HN	2MP 12x Starlight PTZ Network Camera, WDR, PAL		
	SD42C212TN-HN	2MP 12x Starlight PTZ Network Camera, WDR, NTSC		
Accessories	DC24V/2.5A	Power Adapter		

Accessories

Included:



DC24V/2.5A Power Adapter

Dimensions (mm)



