

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		1/2.8" STARVIS™ CMOS		Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)	
Effective Pixels		1920(H) x 1080(V), 2 Megapixels			Streaming Capability	3 Streams
RAM/ROM		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		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			Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR LEDs		N/A				Auto(ICR) / Color / B/W
Lens				Day/Night		
Focal Length		5.3mm~64	4mm		Backlight Compensation	BLC / HLC / WDR(120dB)
Max. Aperture		F1.6 ~ F4.4			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Angle of View		H: 58.2° ~ 4.8°		Gain Control	Auto / Manual	
Optical Zoom		12x		Noise Reduction	Ultra DNR (2D/3D)	
Focus Control		Auto/Manual		Motion Detection	Support	
Close Focus Distance		100mm~ 1000mm		Region of Interest	Support	
DORI Distance					Electronic Image Stabilization (EIS)	N/A
*Note: The DORI dis	_				Defog	Support
pinpoint the right ca	and lab test re	sult accordin	ng to EN 62676-4 w		Digital Zoom	16x
			ize and Identify respectively.		Flip	180°
Detect	Observe		ecognize	Identify	Privacy Masking	Up to 24 areas
883m(2897ft)	353m(1158f	τ) 1/	77m(581ft)	88m(289ft)	Audio	
PTZ				Compression	G.711a/G.711Mu/G.726/AAC	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°		Network		
Manual Control Spe	ed		~300° /s; Tilt: 0.1° ~	120°/s	Ethernet	RJ-45 (10XBase-T/100Base-TX)
Presets Presets		Pan: 300° /s; Tilt: 200° /s 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,802.1x
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			Interoperability	ONVIF Profile S&G, API
Speed Setup		Human-oriented focal Length/ speed adaptation			Streaming Method	Unicast / Multicast
Power up Action		Auto restore to previous PTZ and lens status after power failure			Max. User Access	20 users
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no				NAS (Network Attached Storage),Local PC for
Protocol		command in the specified period DH-SD			Edge Storage	instant recording, Micro SD card 256GB
Intelligence					Web Viewer	IE, Chrome, Firefox, Safari
- 0		Motion detection, Video tampering, Network			Management Software	Smart PSS, DSS, DMSS
Event Trigger		disconnection, IP address conflict, Illegal access, Storage anomaly		Smart Phone	IOS, Android	
Auto Tracking		N/A		Certifications		
IVS		Tripwire, Intrusion, Abandoned/Missing		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	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	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	DC24V/2.5A	Power Adapter		

Accessories

Included:



DC24V/2.5A Power Adapter

Dimensions (mm)



