

DH-SD42212T-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+
- · 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 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 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

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			Compression	H.265+/H.265/H.264+/H.264
Effective Pixels			H) x 1080(V), 2 Megap			Streaming Capability	3 Streams
RAM/ROM		1024N	л/128M			Resolution	1080P(1920×1080)/720P(1280×720)/
Scanning System Progressive			Resolution	D1(704×576/704×480)/CIF(352×288/352×240)			
Electronic Shutter Speed 1/1s		1/1s~:	/1s~1/30,000s				Main stream: 1080P/720P(1 ~ 25/30fps)
		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6				Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
		ore than 55dB			Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)		
		N/A				Bit Rate Control	CBR/VBR
		N/A			Bit Rate	H.265/H.264: 448K ~ 8192Kbps	
		N/A			Day/Night	Auto(ICR) / Color / B/W	
IR LEDs N/A		IN/A				Backlight Compensation	BLC / HLC / WDR(120dB)
Focal Length		5.3mm~64mm			White Balance	Auto, ATW, Indoor, Outdoor, Manual	
		F1.6 ~				Gain Control	Auto / Manual
						Noise Reduction	Ultra DNR (2D/3D)
Angle of View H: 58.2° ~ 4.8° Ontical Zoom 13v				Motion Detection	Support		
Optical Zoom 12x Focus Control Auto/Manual		Manual			Region of Interest	Support	
Close Focus Distar	nce		m~ 1000mm			Electronic Image Stabilization (EIS)	N/A
DORI Distance						Defog	Support
			ximity" of distance wh			Digital Zoom	16x
sensor specification	on and lab test res	ult acco	ording to EN 62676-4 v I Identify respectively.			Flip	180°
Detect	Observe		Recognize	Identify		Privacy Masking	Up to 24 areas
883m(2897ft)	353m(1158f	:)	177m(581ft)	88m(289ft)		Audio	
PTZ						Compression	G.711a/G.711Mu/G.726/AAC
Pan/Tilt Range		Pan: 0	o° ~ 360° endless; Tilt:	-2° ~ 90°,auto flip 180°		Network	
Manual Control Sp	peed	Pan: 0	.1° ~300° /s; Tilt: 0.1°	~120° /s		Ethernet	RJ-45 (10XBase-T/100Base-TX)
Preset Speed			00° /s; Tilt: 200° /s	/s; Tilt: 200° /s		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
Presets		300			Interoperability	ONVIF Profile S&G, API	
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			Streaming Method	Unicast / Multicast	
Speed Setup			Human-oriented focal Length/ speed adaptation			Max. User Access	20 users
Power up Action		Auto restore to previous PTZ and lens status after power failure				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,			Smart Phone Certifications	IOS, Android	
Storage anomaly			cer ancadons	CE: EN55032/EN55024/EN50130-4			
Auto Tracking N/A Tripuire Intrusion Abandoned (Missing		Certifications	FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1				
IVS Tripwire, Intrusion, Abandoned/Missing		ieu/iviissifig		OL. OLOUSSU 11 CAN, CSA C22.2, NO.00330-1			

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

Construction

Casing	Metal
Dimensions	Φ170(mm)×155(mm)
Net Weight	1.8kg(3.97lb)
Gross Weight	3.3kg(7.28lb)

Ordering Information

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Туре	Part Number	Description
2MP PTZ Camera	DH-SD42212T-HN	2MP 12x Starlight PTZ Network Camera, WDR, PAL
	DH-SD42212TN-HN	2MP 12x Starlight PTZ Network Camera, WDR, NTSC
	SD42212T-HN	2MP 12x Starlight PTZ Network Camera, WDR, PAL
	SD42212TN-HN	2MP 12x Starlight PTZ Network Camera, WDR, NTSC
	PFB302S	Wall Mount
	PFA102	Mount Adapter
Accessories	AC24V/1.5A	Power Adapter
Accessories	PFB300C	Ceiling Mount
	PFA150	Pole Mount
	PFA151	Corner Mount

Accessories

Included:



Optional:







PFB302S Wall Mount

PFA102 Mount Adapter

PFB300C Ceiling Mount







Pole Mount

PFA151 Corner Mount

Ceiling Mount	Wall Mount
PFA102 + PFB300C	PFA102 + PFB302S
Pole Mount	Corner Mount
Pole Mount PFA102 + PFB302S + PFA150	Corner Mount PFA102 + PFB302S + PFA151

Dimensions (mm)



