

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.



IVS

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 1920(H) x 1080(V), 2 Megapixels		Streaming Capability	3 Streams		
RAM/ROM	RAM/ROM 1024M/128M		Resolution	1080P(1920×1080)/720P(1280×720)/ 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)		
S/N Ratio More than 55dB		Bit Rate Control	CBR/VBR		
IR Distance	N/A			Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control 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	cal Length 5.3mm~64mm		Gain Control	Auto / Manual	
Max. Aperture	F1.6	~ F4.4		Noise Reduction	Ultra DNR (2D/3D)
Angle of View	H: 58	H: 58.2° ~ 4.8°		Motion Detection	Support
Optical Zoom 12x		Region of Interest	Support		
Focus Control Auto/Manual		Electronic Image Stabilization			
Close Focus Distance 100mm [~] 1000mm		(EIS)	N/A		
DORI Distance	. "			Defog	Support
pinpoint the right car	mera for your needs.	oximity" of distance wh The DORI distance is ca	lculated based on	Digital Zoom	16x
•		cording to EN 62676-4 v d Identify respectively.	which defines the	Flip	180°
Detect	Observe	Recognize	Identify	Privacy Masking	Up to 24 areas
883m(2897ft)	353m(1158ft)	177m(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 Spee	ed Pan:	0.1° ~300° /s; Tilt: 0.1°	~120° /s	Ethernet	RJ-45 (10XBase-T/100Base-TX)
		Pan: 300° /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
		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Streaming Method	Unicast / Multicast
Aut		Human-oriented focal Length/ speed adaptation Auto restore to previous PTZ and lens status after		Max. User Access	20 users
Power up Action p		power failure Activate Preset/ Scan/ Tour/ Pattern if there is no		Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB
con		command in the specified period DH-SD		Web Viewer	IE, Chrome, Firefox, Safari
Protocol DH-SD Intelligence		Management Software	Smart PSS, DSS, DMSS		
	Moti	on detection, Video tar	npering, Network	Smart Phone	IOS, Android
Motion detection, Video tampering, Network Event Trigger disconnection, IP address conflict, Illegal access, Storage anomaly		Certifications			
Auto Tracking N/A				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014

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 $^{\sim}$ 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

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:







PFA102 Mount Adapter



PFB300C Ceiling Mount



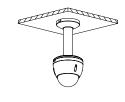
Wall Mount

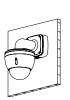
PFA150 Pole Mount



PFA151 orner Mount

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





Pole Mount	Corner Mount
PFA102 + PFB302S + PFA150	PFA102 + PFB302S + PFA151

Dimensions (mm)

