

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		1/2.8"	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				Main stream: 1080P/720P(1 ~ 25/30fps)		
Electronic Shutter Speed 1		1/1s~1,	/30,000s		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Minimum Illumination Color: 0.005Lux@F1.6; B/W: 0.00		0.0005Lux@F1.6	Tome nate	Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)		
IR Distance N/A		Bit Rate Control	CBR/VBR			
IR On/Off Control N/A		N/A	/A		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR LEDs		N/A			Day/Night	Auto(ICR) / Color / B/W
Lens					Backlight Compensation	
Focal Length		5.3mm	~64mm			BLC / HLC / WDR(120dB)
Max. Aperture		F1.6 ~ F	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/N	/lanual		Motion Detection	Support
Close Focus Distar	nce	100mm	n~ 1000mm		Region of Interest	Support
DORI Distance					Electronic Image Stabilization (EIS)	N/A
			imity" of distance whi ne DORI distance is ca		Defog	Support
			rding to EN 62676-4 w Identify respectively.	hich defines the	Digital Zoom	16x
Detect Observe			Recognize Identify	Identify	Flip	180°
883m(2897ft)	353m(1158	ft)	177m(581ft)	88m(289ft)	Privacy Masking	Up to 24 areas
PTZ					Audio	
Pan/Tilt Range Pan		Pan: 0°	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°		Compression	G.711a/G.711Mu/G.726/AAC
Manual Control Sp	peed	Pan: 0.:	Pan: 0.1° ~300° /s; Tilt: 0.1° ~120° /s		Network	
Preset Speed		Pan: 30	00° /s; Tilt: 200° /s		Ethernet	RJ-45 (10XBase-T/100Base-TX)
Presets 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.:
PTZ Mode 5			rn, 8 Tour, Auto Pan ,A		Interoperability	ONVIF Profile S&G, API
			-oriented focal Length		Streaming Method	Unicast / Multicast
		power	estore to previous PTZ failure	and iens status after	Max. User Access	20 users
Power up Action	Idle Motion Activa		ctivate Preset/ Scan/ Tour/ Pattern if there is no ommand in the specified period		Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB
Idle Motion		Protocol DH-SD				0,
Idle Motion Protocol		DH-SD			Web Viewer	IE, Chrome, Firefox, Safari
Idle Motion						
Idle Motion		Motion	n detection, Video tan nection, IP address co e anomaly		Web Viewer Management Software Smart Phone	IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS IOS, Android
Idle Motion Protocol Intelligence		Motion	nection, IP address co		Management Software	Smart PSS, DSS, DMSS

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 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

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	DC24V/2.5A	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



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)



