

# 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 Sp	ecification					Advanced Intelligent Functions	Face Detection
Camera				Video			
		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		1024M/128M				1080P(1920×1080)/720P(1280×720)/	
		Progressive			Resolution	D1(704×576/704×480)/CIF(352×288/352×240)	
Scanning System		1/1s~1/30,000s			Frame Rate	Main stream: 1080P/720P(1 ~ 25/30fps)	
Electronic Shutter Speed  Minimum Illumination						Sub stream1: D1/CIF(1 ~ 25/30fps)	
	ation	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 Lens		N/A			Backlight Compensation	BLC / HLC / WDR(120dB)	
Focal Length		F 2mm of 4mm			White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Max. Aperture		5.3mm~64mm			Gain Control	Auto / Manual	
Angle of View		F1.6 ~ F4.4			Noise Reduction	Ultra DNR (2D/3D)	
Optical Zoom		H: 58.2° ~ 4.8°			Motion Detection	Support	
Focus Control		12x Auto/Manual			Region of Interest	Support	
		100mm~ 1000mm			Electronic Image Stabilization (EIS)	N/A	
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		Recognize	Identify		Privacy Masking	Up to 24 areas
883m(2897ft)	353m(1158fi	t)	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		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	
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  Activate Preset / Scan / Tour / Pattern if there is no			Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB	
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Web Viewer	IE, Chrome, Firefox, Safari	
Protocol Di		DH-SD			Management Software	Smart PSS, DSS, DMSS	
Intelligence							
Event Trigger		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly			Smart Phone  Certifications	IOS, Android	
Auto Tracking		N/A			Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	
IVS		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

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



Pole Mount



PFA151 Corner Mount

ALC: U	ď0	
	۳	W
DEA 15		

Ceiling Mount	Wall Mount
PFA102 + PFB300C	PFA102 + PFB302S
Pole Mount	Corner Mount
PFA102 + PFB302S + PFA150	PFA102 + PFB302S + PFA151
0	

# Dimensions (mm)



