

DH-SD49225T-HN-W

2MP 25x Starlight IR PTZ Wi-Fi Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 25x optical zoom
- · Starlight technology
- · Max. 25/30fps@1080P
- · IVS
- Support Wifi
- · IR distance up to 100m
- · IP66



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 -40 °C to +70 °C (-40°F to +158°F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for 6KV lightning rating, which 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.



Lite Series | DH-SD49225T-HN-W

Technical Specification

Camera

Image Sensor	1/2.8" STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	1024M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 100m (328ft)
IR On/Off Control	Auto/Manual
IR LEDs	6
Lens	
Focal Length	4.8mm~120mm
Max. Aperture	F1.6 ~ F4.4
Angle of View	H: 62.8° ~ 2.6°

Close Focus Distance
DORI Distance

Event Trigger

Auto Tracking

IVS

Optical Zoom Focus Control

*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 sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

25x

Auto/Manual 100mm~ 1000mm

Detect	Observe		Recognize	Identify
1613m(5292ft)	646m(2119f	t)	323m(1060ft)	161m(528ft)
PTZ				
Pan/Tilt Range		Pan: 0'	° ~ 360° endless; Tilt: -1	.5° ~ 90°,auto flip 180°
Manual Control Spee	ed	Pan: 0.	1° ~200° /s; Tilt: 0.1° ~:	120° /s
Preset Speed		Pan: 24	40° /s; Tilt: 200° /s	
Presets		300		
PTZ Mode		5 Patte	ern, 8 Tour, Auto Pan ,A	uto Scan
Speed Setup		Humar	n-oriented focal Length	/ speed adaptation
Power up Action			estore to previous PTZ a failure	and lens status after
Idle Motion			te Preset/ Scan/ Tour/ F and in the specified per	
Protocol		DH-SD		
Intelligence				
		Motio	n detection, Video tam	pering, Network

Storage anomaly

N/A

disconnection, IP address conflict, Illegal access,

Tripwire, Intrusion, Abandoned/Missing

Advanced late literate 5	Face Detection	
Advanced Intelligent Functions	Face Detection	
Video		
Compression	H.265+/H.265/H.264+/H.264	
Streaming Capability	3 Streams	
Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)	
Frame Rate	Main stream: 1080P/720P(1 ~ 25/30fps)	
	Sub stream1: D1/CIF(1 ~ 25/30fps)	
	Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.265/H.264: 448K ~ 8192Kbps	
Day/Night	Auto(ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / WDR(120dB)	
White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Gain Control	Auto / Manual	
Noise Reduction	Ultra DNR (2D/3D)	
Motion Detection	Support	
Region of Interest	Support	
Electronic Image Stabilization (EIS)	N/A	
Defog	Support	
Digital Zoom	16x	
Flip	180°	
Privacy Masking	Up to 24 areas	
Audio		
Compression	G.711a/G.711Mu/G.726/AAC	
Network		
Ethernet	RJ-45 (10XBase-T/100Base-TX)	
Wi-Fi	Wi-Fi(IEEE802.11a/b/g/n/ac) , Dual-Band Wi-Fi	
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	
Interoperability	ONVIF Profile S&G, API	
Streaming Method	Unicast / Multicast	
Max. User Access	20 users	
Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, DMSS	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1	

Lite Series | DH-SD49225T-HN-W

Interface

Interface					
Video Interface	N/A				
RS485	N/A				
Audio I/O	1/1				
Alarm I/O	2/1				
Electrical					
Power Supply	DC 12V/3A				
Power Consumption	13W, 22W (IR on, Heater on)				
Environmental					
Operating Conditions	-40°C \simeq 70°C (-40°F \simeq +158°F) / Less than 95% RH				
Ingress Protection	IP66				
Vandal Resistance	N/A				
Construction					
Casing	Metal				
Dimensions	Φ160(mm) x 295(mm)				
Net Weight	3kg(6.61lb)				
Gross Weight	4.2kg(9.26lb)				

Ordering Information

Туре	Part Number	Description
	DH-SD49225T-HN-W	2MP 25x Starlight IR PTZ Wi-Fi Network Camera, WDR, PAL
2MP PTZ Camera	DH-SD49225TN-HN-W	2MP 25x Starlight IR PTZ Wi-Fi Network Camera, WDR, NTSC
	SD49225T-HN-W	2MP 25x Starlight IR PTZ Wi-Fi Network Camera, WDR, PAL
	SD49225TN-HN-W	2MP 25x Starlight IR PTZ Wi-Fi Network Camera, WDR, NTSC
	PFB305W	Wall Mount
	PFA111	Mount Adapter
	DC12V/3A	Power Adapter
	PFA140	Power Box
Accessories	PFB300C	Ceiling Mount
	PFA120	Water-proof Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:



Wall Mount

Optional:







PFA111 Mount Adapter



PFA140 Power Box

C



PFA150 Pole Mount



PFB300C

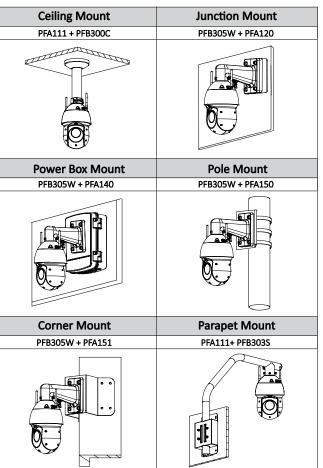
Ceiling Mount

PFA151 Corner Mount

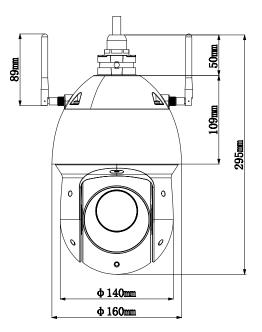
PFB303S Parapet Mount

PFA120

Junction Box



Dimensions (mm)





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