

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. 25/30@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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +60 °C (-40 °F to +140 °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) and PSIA (Physical Security Interoperability Alliance) 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; 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: 59.2° ~ 2.4°	
Optical Zoom	25x	
Focus Control	Auto/Manual	
Close Focus Distance	100mm~ 1000mm	

DORI Distance

*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.

Detect	Observe		Recognize	Identify	
1613m(5292ft)	646m(2119ft)		323m(1060ft)	161m(528ft)	
PTZ					
Pan/Tilt Range		Pan: 0'	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°,auto flip 180°		
Manual Control Speed Pa		Pan: 0.	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		
Preset Speed	Pan:		Pan: 240° /s; Tilt: 200° /s		
Presets		300			
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			
Speed Setup		Human-oriented focal Length/ speed adaptation			
Power up Action		Auto restore to previous PTZ and lens status after power failure			
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			
Protocol		DH-SD			
Intelligence					
Auto Tracking N/A		N/A	N/A		
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection			

Video H.265+/H.265/H.264+/H.264 Compression Streaming Capability 3 Streams 1080P(1920×1080)/720P(1280×720)/ Resolution D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/720P(1 ~ 25/30fps) Frame Rate Sub stream1: D1/CIF(1 ~ 25/30fps) Sub stream2: 720P/D1/CIF(1 ~ 25/30fps) Bit Rate Control CBR/VBR H.265/H.264: 448K ~ 8192Kbps Bit Rate 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 Detetion Support **Region of Interest** Support Electronic Image N/A Stabilization (EIS) 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 (10Base-T/100Base-TX) Wi-Fi(IEEE802.11a/b/g/n/ac) , Dual-Band Wi-Fi Wi-Fi IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, Protocol DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x ONVIF, PSIA, CGI Interoperability Streaming Method Unicast / Multicast Max. User Access 20 users NAS (Network Attached Storage), Local PC for Edge Storage instant recording, Micro SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS Smart Phone IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014 Certifications UL: UL60950-1+CAN/CSA C22.2,No.60950-1

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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)
Environmental	
Operating Conditions	-40°C \sim 70°C (-40°F \sim +158°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A
Construction	
Casing	Metal
Dimensions	Ф160(mm) x 295(mm)
Net Weight	3kg(6.61lb)
Gross Weight	4.2kg(9.26lb)

Ordering Information

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

Accessories Included: PFB305W Wall Mount Optional :







PFA140

Power Box

PFA111 Mount Adapter

DC12V/3A Power Adapter

Junction Box





PFA150 Pole Mount



PFB300C

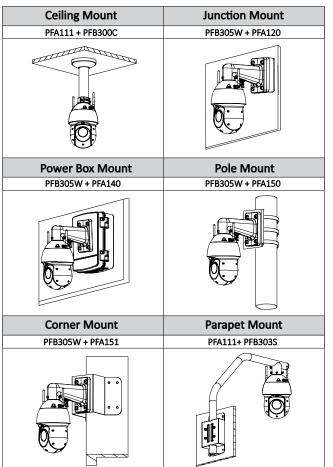




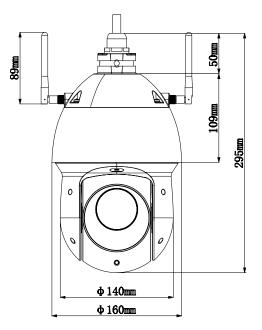


Corner Mount

Parapet Mount



Dimensions (mm)





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