

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.



Technical Specification				Advanced Intelligent Functions	Face Detection		
Camera			Video				
Image Sensor 1,		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					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; 0Lux@F1.6 (IR on)					Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)
S/N Ratio		More than 50dB				Bit Rate Control	CBR/VBR
IR Distance		Distance up to 100m (328ft)				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control		Auto/Manual				Day/Night	Auto(ICR) / Color / B/W
IR LEDs		6				Backlight Compensation	BLC / HLC / WDR(120dB)
Lens						White Balance	Auto, ATW, Indoor, Outdoor, Manual
Focal Length		4.8mm~120mm				Gain Control	Auto / Manual
Max. Aperture		F1.6 ~ F	F4.4			Noise Reduction	Ultra DNR (2D/3D)
Angle of View	Angle of View H: 62.		H: 62.8° ~ 2.6°			Motion Detection	Support
Optical Zoom		25x			Region of Interest	Support	
Focus Control		Auto/Manual				Electronic Image Stabilization (EIS)	N/A
Close Focus Distance	2	100mm	n~ 1000mm			Defog	Support
DORI Distance						Digital Zoom	16x
pinpoint the right ca	mera for your n	eeds. Th	imity" of distance which ne DORI distance is cal	culated based on		Flip	180°
criteria for Detect, O			rding to EN 62676-4 w Identify respectively.	hich defines the		Privacy Masking	Up to 24 areas
Detect Observe			Recognize	Identify		Audio	
1613m(5292ft) 646m(2119ft))	323m(1060ft)	161m(528ft)		Compression	G.711a/G.711Mu/G.726/AAC
PTZ					Network	G./ 11a/ G./ 11wa/ G./ 20// W.C	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°,auto flip 180°					DL 45 (40VD T/400D TV)
Manual Control Spec	ed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s				Ethernet	RJ-45 (10XBase-T/100Base-TX)
Preset Speed		Pan: 240° /s; Tilt: 200° /s				Wi-Fi	Wi-Fi(IEEE802.11a/b/g/n/ac) , Dual-Band Wi-Fi IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
Presets		300				Protocol	ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
PTZ Mode		5 Patte	rn, 8 Tour, Auto Pan ,A	uto Scan		Interoperability	ONVIF Profile S&G, API
Speed Setup		Human	-oriented focal Length	/ speed adaptation		Streaming Method	Unicast / Multicast
Power up Action		Auto restore to previous PTZ and lens status after power failure				Max. User Access	20 users
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period				Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Protocol		DH-SD				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence				Management Software	Smart PSS, DSS, DMSS		
Event Trigger		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access,				Smart Phone	IOS, Android
Lvent mgger		Storage anomaly			Certifications		
Auto Tracking		N/A				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014
IVS Tri		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	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		
	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:



PFB305W Wall Mount

Optional:



PFA111 Mount Adapter



DC12V/3A Power Adapter



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Cailing Mayort	Junction Mount	
Ceiling Mount		
PFA111 + PFB300C	PFB305W + PFA120	
Power Box Mount	Pole Mount	
PFB305W + PFA140	PFB305W + PFA150	
Corner Mount	Parapet Mount	
PFB305W + PFA151	PFA111+ PFB303S	

Dimensions (mm)



