

DH-SD49225T-HN

2MP 25x Starlight IR PTZ Network Camera





- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · Max. 25/30fps@1080P
- · 1\/S
- · Support PoE+
- · 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		IVS	Tripwire, Intrusion, Abandoned/Missing		
Camera				Advanced Intelligent Functions	Face Detection
Image Sensor 1/2.8" STARVIS™ CMOS		Video			
Effective Pixels 1920(H) x 1080(V), 2 Megapixels		Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)		
RAM/ROM 1024M/128M		Streaming Capability	3 Streams		
Scanning System Progressive		Resolution	1080P(1920×1080)/720P(1280×720)/		
Electronic Shutter Speed		1/1s~1/30,000s		Frame Rate	D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/720P(1 ~ 25/30fps)
		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6;			Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance		OLux@F1.6 (IR on) Distance up to 100m (328ft)			Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)
IR On/Off Control		Distance up to 100m (328ft) Auto/Manual		Bit Rate Control	CBR/VBR
IR LEDs		ato, wanda		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Lens	O	6		Day/Night	Auto(ICR) / Color / B/W
	4.6	9mm × 1 3 0mm		Backlight Compensation	BLC / HLC / WDR(120dB)
Focal Length		8mm~120mm		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture		1.6 ~ F4.4			
Angle of View H: 62.8° ~ 2.6°			Gain Control	Auto / Manual	
Optical Zoom 25x				Noise Reduction	Ultra DNR (2D/3D)
Focus Control Auto/Manual			Motion Detection	Support	
Iris Control A		Auto/Manual		Region of Interest	Support
Close Focus Distance 10		100mm~ 1000mm		Electronic Image Stabilization (EIS)	N/A
DORI Distance				Defog	Support
pinpoint the right ca	amera for your need	proximity" of distance which ds. The DORI distance is calcaccording to EN 62676-4 w	culated based on	Digital Zoom	16x
•		and Identify respectively.	men defines the	Flip	180°
Detect	Observe	Recognize	Identify	Privacy Masking	Up to 24 areas
1613m(5292ft)	646m(2119ft)	2119ft) 323m(1060ft) 161m(528ft)		Audio	
PTZ				Compression	G.711a/G.711Mu/G.726/AAC
Pan/Tilt Range	Pa	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°		Network	
Manual Control Spe	eed Pa	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		Ethernet	RJ-45 (10XBase-T/100Base-TX)
		Pan: 240° /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,Qo5,Bonjour,802.1:
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Interoperability	ONVIF Profile S&G, API
				Streaming Method	Unicast / Multicast
Speed Setup		Human-oriented focal Length/ speed adaptation Auto rectors to previous PT7 and lens status after		Max. User Access	20 users
Power up Action		Auto restore to previous PTZ and lens status after power failure		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		DH-SD		Management Software	Smart PSS, DSS, DMSS
Intelligence			Smart Phone	IOS, Android	
Event Trigger		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access,		Certifications	
Auto Tracking		Storage anomaly N/A		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1
Auto Hacking					

Interface

Video Interface	N/A
RS485	N/A
Audio I/O	1/1
Alarm I/O	2/1

Electrical

Power Supply	DC 12V/3A, PoE+(802.3at)
Power Consumption	13W, 22W (IR on, Heater on)

Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +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		
	DH-SD49225T-HN	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL		
2MP PTZ	DH-SD49225TN-HN	2MP 25x Starlight IR PTZ Network Camera, WDR, NTSC		
Camera	SD49225T-HN	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL		
	SD49225TN-HN	2MP 25x Starlight IR PTZ 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

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

Dimensions (mm)





