

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\/<
- · 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
		1/2.8" STARVIS™ CMOS		Video	
Effective Pixels 19		1920(H) x 1080(V), 2 Megapixels		Compression	H.265+/H.265/H.264+/H.264
RAM/ROM 1024M/128M		L024M/128M		Streaming Capability	3 Streams
		Progressive		Resolution	1080P(1920×1080)/720P(1280×720)/
		1/1s~1/30,000s			D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/720P(1 ~ 25/30fps)
Minimum Illumination Col-		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6;		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
0		OLux@F1.6 (IR on)			Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)
S/N Ratio IR Distance		More than 50dB		Bit Rate Control	CBR/VBR
		Distance up to 100m (328ft)		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control		Auto/Manual			
IR LEDs	6	5		Day/Night	Auto(ICR) / Color / B/W
Lens				Backlight Compensation	BLC / HLC / WDR(120dB)
Focal Length	4	1.8mm~120mm		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture	F	F1.6 ~ F4.4		Gain Control	Auto / Manual
Angle of View H: 6		1: 62.8° ~ 2.6°		Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom 25.		25x		Motion Detection	Support
Focus Control A		Auto/Manual		Region of Interest	Support
Close Focus Distance		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 sensor specification and lab test result according to EN 62676-4 which defines the			alculated based on	Digital Zoom	16x
•		e and Identify respectively.	e.	Flip	180°
Detect	Observe	Recognize	Identify	Privacy Masking	Up to 24 areas
1613m(5292ft)	646m(2119ft)	323m(1060ft)	161m(528ft)	Audio	
PTZ				Compression	G.711a/G.711Mu/G.726/AAC
Pan/Tilt Range	Р	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°		Network	
Manual Control Spe	eed P	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		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
Presets		300			ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1
PTZ Mode		Pattern, 8 Tour, Auto Pan ,	Auto Scan	Interoperability	ONVIF Profile S&G, API
Speed Setup		Human-oriented focal Length/ speed adaptation		Streaming Method	Unicast / Multicast
POWER IID ACTION		Auto restore to previous PTZ and lens status after		Max. User Access	20 users
		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		command in the specified period		Web Viewer	IE, Chrome, Firefox, Safari
Protocol DH-		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 Turdin		Storage anomaly		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014

UL: UL60950-1+CAN/CSA C22.2,No.60950-1

N/A

Auto Tracking

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 $^{\sim}$ 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

ordering information				
Туре	Part Number	Description		
2MP PTZ Camera	DH-SD49225T-HN	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL		
	DH-SD49225TN-HN	2MP 25x Starlight IR PTZ Network Camera, WDR, NTSC		
	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

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)



