

DH-SD49412T-HN

4MP 12x IR PTZ Network Camera



- · 1/3" 4Megapixel CMOS
- · Powerful 12x optical zoom
- Max. 25/30fps@4M/3M
- · IVS
- · 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 4MP 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

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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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.



Tachnical Specification						Advanced Intelligent Functions	Face Detection
Technical Specification					Face Detection		
Camera				Video			
Image Sensor		1/3" CMOS				Compression	H.265/H.264
Effective Pixels		2592(H) x 1520(V), 4 Megapixels				Streaming Capability	3 Streams
RAM/ROM		1024M/128M				Resolution	4M(2592×1520)/3M(2304×1296)/1080P(1920× 1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)
Scanning System		Progressive					Main stream: 4M/3M/1080P/1.3M/720P
Electronic Shutter Speed		1/1s~1/30,000s Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6;				Frame Rate	(1~25/30fps)
Minimum Illumination		OLux@F1.6 (IR on)			ridille kate	Sub stream1: D1/CIF(1 ~ 25/30fps)	
S/N Ratio		More than 50dB					Sub stream2: 720P/D1/CIF (1~25/30fps)
IR Distance		Distance up to 100m (328ft)				Bit Rate Control	CBR/VBR
IR On/Off Control		Auto/Manual			Bit Rate	H.265/H.264: 448K ~ 8192Kbps	
IR LEDs		6				Day/Night	Auto(ICR) / Color / B/W
Lens						Backlight Compensation	BLC / HLC / WDR(120dB)
Focal Length		5.3mm ²	~64mm			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture		F1.6 ~ F	F1.6 ~ F4.4			Gain Control	Auto / Manual
Angle of View H: 5		H: 58.2	H: 58.2° ~ 4.8°			Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom 12		12x			Motion Detection	Support	
Focus Control		Auto/Manual			Region of Interest	Support	
		100mm	100mm~ 1000mm			Electronic Image Stabilization (EIS)	N/A
*Note: The DODI di	stance is a "gon.	aral aravi	imity" of distance which	oh makas it aasu ta		Defog	Support
pinpoint the right c	amera for your i	needs. Th	imity" of distance which ne DORI distance is cal-	culated based on		Digital Zoom	16x
			sult according to EN 62676-4 which defines the nize and Identify respectively.			Flip	180°
Detect	Observe		Recognize	Identify		Privacy Masking	Up to 24 areas
1280m(4200ft)	512m(1680f	ft)	256m(840ft)	128m(420ft)		Audio	
PTZ						Compression	G.711a/G.711Mu/G.726/AAC
Pan/Tilt Range		Pan: 0°	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°			Network	
Manual Control Spe	eed	Pan: 0.1	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, SMMP, RTSP, RTP, SMTP, NTP, DHCP,
Presets		300				Interes billit.	DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1
		5 Pattern, 8 Tour, Auto Pan ,Auto Scan				Interoperability Streeming Method	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 D		DH-SD			Web Viewer	IE, Chrome, Firefox, Safari	
Intelligence				Management Software	Smart PSS, DSS, DMSS		
Event Trigger		disconn	Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access,			Smart Phone	IOS, Android
Auto Tradition		Storage anomaly			Certifications		
Auto Tracking IVS		N/A Tripwire, Intrusion, Abandoned/Missing				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1
		,,,				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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, 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 Type Part Number Description 4MP 12x IR PTZ Network Camera, DH-SD49412T-HN WDR, PAL 4MP 12x IR PTZ Network Camera, DH-SD49412TN-HN WDR, NTSC 4MP PTZ Camera 4MP 12x IR PTZ Network Camera, SD49412T-HN WDR, PAL 4MP 12x IR PTZ Network Camera, SD49412TN-HN WDR, NTSC PFB305W Wall Mount PFA111 Mount Adapter DC12V/3A Power Adapter PFA140 Power Box PFB300C Accessories 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

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)



