

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

Lite series is a range of attractively priced mini PTZ dome camera with compact design. The series is ideal for entry level applications, comprises outdoor and indoor cameras that are esthetically designed to blend in with a building. With pan at speeds of up to 400°/s, and tilt at speeds of up to 200°/s, the lite series ensures complete and timely video capture across a large area. It offers industry-leading IR capability of up to 100m, and IP66 and IK10 protection ratings. They are perfect for remote monitoring of applications such as airports, stores, banks, hotels, office lobbies and etc.

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 differencecoding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Lite Series | DH-SD49412T-HN

Technical Specification

Camera

Image Sensor	1/3" CMOS
Effective Pixels	2592(H) x 1520(V), 4 Megapixels
RAM/ROM	1024M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.05Lux@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	5.3mm~64mm
Max. Aperture	F1.6 ~ F4.4
Angle of View	H: 58.2° ~ 4.8°
Optical Zoom	12x
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	
1280m(4200ft)	512m(1680ft)		256m(840ft)	128m(420ft)	
PTZ					
Pan/Tilt Range	e		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°,auto flip 180°		
Manual Control Speed		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s			
Preset Speed	ed Pa		Pan: 240° /s; Tilt: 200° /s		
Presets		300			
PTZ Mode	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	to Tracking N		N/A		
IVS			ipwire, Intrusion, Abandoned/Missing, Face etection		

Video		
Compression	H.265/H.264/MJPEG	
Streaming Capability	3 Streams	
Resolution	4M(2592×1520)/3M(2304×1296)/1080P(1920× 1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)	
	Main stream: 4M/3M/1080P/720P/D1(1 ~ 25/30fps)	
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)	
	Sub stream2: 4M/1080P/720P/D1/CIF(1 ~ 25/30fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps	
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 Stabilization (EIS)	N/A	
Defog	Support	
Digital Zoom	16x	
Flip	180°	
Privacy Masking	Up to 24 areas	
Audio		
Compression	G.711a/G.711u(32kbps)/PCM(128kbps)	
Network		
Ethernet	RJ-45 (10Base-T/100Base-TX)	
Protocol	IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	20 users	
Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1	

Lite Series | DH-SD49412T-HN

Interrace	
Video Interface	N/A
Audio Interface	1/1
RS485	N/A
Alarm I/O	2/1
Electrical	
Power Supply	DC 12V/3A, PoE+(802.3at)
Power Consumption	13W,20W (IR on)
Environmental	
Operating Conditions	-40°C \simeq 70°C (-40°F \simeq +158°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	N/A
Construction	
Casing	Metal
Dimensions	Φ160(mm) x 295(mm)
Net Weight	3kg(6.61lb)

4.2kg(9.26lb)

Ordering Information

Gross Weight

Туре	Part Number	Description
	DH-SD49412T-HN	4MP 12x IR PTZ Network Camera, WDR,PAL
4MP PTZ Camera	DH-SD49412TN-HN	4MP 12x IR PTZ Network Camera, WDR,NTSC
	SD49412T-HN	4MP 12x IR PTZ Network Camera, WDR,PAL
	SD49412TN-HN	4MP 12x IR PTZ Network Camera, WDR,NTSC
Accessories	PFB305W	Wall Mount
	PFA111	Mount Adapter
	DC12V/3A	Power Supply
	PFA140	Power box
	PFB300C	Ceiling Mount
	PFA120	Water-proof Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet mount

Accessories

Included:



Wall Mount

Optional:







PFA111 Mount Adapter DC12V/3A Power Supply



Power box

PFA140



PFA150 Pole Mount

PFA151 Corner Mount

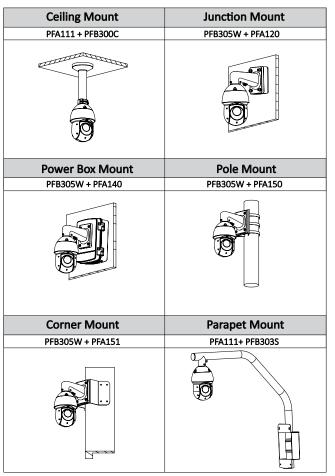
PFB300C

Ceiling Mount

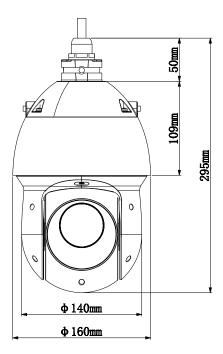
PFB303S Parapet Mount

PFA120

Junction Box



Dimensions (mm)





Rev 001.001 © 2017 Dahua. All rights reserved. Design and specifications are subject to change without notice.