

## DH-SD49212T-HN

2MP 12x Starlight IR PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 12x optical zoom
- · Starlight technology
- Max. 25/30fps@1080P
- · 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 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.

#### **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.



Detection

Technical Specification		Video			
Camera		Compression	H.265+/H.265/H.264+/H.264		
Image Sensor	1/	1/2.8" STARVIS™ CMOS		Streaming Capability	3 Streams
Effective Pixels	19	1920(H) x 1080(V), 2 Megapixels		Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
RAM/ROM	10	)24M/128M			Main stream: 1080P/720P(1 ~ 25/30fps)
Scanning System		Progressive		Frame Rate	
Electronic Shutter Speed 1/1s~1/30,000s			Sub stream1: D1/CIF(1 ~ 25/30fps)		
Minimum Illumination Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)		Bit Rate Control	Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)  CBR/VBR		
S/N Ratio	M	ore than 50dB			
IR Distance	Di	stance up to 100m (328ft)		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control	Au	uto/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	5.	3mm~64mm		Gain Control	Auto / Manual
Max. Aperture	F1	6 ~ F4.4		Noise Reduction	Ultra DNR (2D/3D)
Angle of View H: 58.2° ~ 4.8°		Motion Detetion	Support		
Optical Zoom 12x		Region of Interest	Support		
Focus Control Auto/Manual		Electronic Image Stabilization (EIS)	N/A		
		00mm~ 1000mm		Defog	Support
DORI Distance		Digital Zoom	16x		
*Note: The DORI dis	stance is a "general	proximity" of distance whi	ch makes it easy to	Flip	180°
pinpoint the right camera for your needs.		eds. The DORI distance is calculated based on taccording to EN 62676-4 which defines the		Privacy Masking	Up to 24 areas
	Observe, Recognize	and Identify respectively.		Audio	
Detect	Observe	Recognize	Identify	Compression	G.711a/G.711Mu/G.726/AAC
883m(2897ft)	353m(1158ft)	177m(581ft)	88m(289ft)	Network	
PTZ				Ethernet	RJ-45 (10Base-T/100Base-TX)
Pan/Tilt Range	Pa	Pan: $0^{\circ}$ ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°			IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP,
Manual Control Spe	eed Pa	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		Protocol	ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Preset Speed		Pan: 240° /s; Tilt: 200° /s		Interoperability	ONVIF, PSIA, CGI
Presets		300		Streaming Method	Unicast / Multicast
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Max. User Access	20 users
Speed Setup		Human-oriented focal Length/ speed adaptation		Edge Storage	NAS (Network Attached Storage),Local PC for
Power up Action		Auto restore to previous PTZ and lens status after power failure		Web Viewer	instant recording, Micro SD card 128GB  IE, Chrome, Firefox, Safari
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Management Software	Smart PSS, DSS
Protocol DH-SD				Smart Phone	IOS, Android
Intelligence		Certifications	<i>y-1</i> ,		
Auto Tracking N/A		Certifications	CE: EN55032/EN55024/EN50130-4		
Tripwire, Intrusion, Abandoned/Missing, Face Detection			FCC: Part15 subpartB,ANSI C63.4- 2014 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, PoE+(802.3at)
Power Consumption	13W,20W (IR 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**

	Ordering init	ruering information		
	Туре	Part Number	Description	
		DH-SD49212T-HN	2MP 12x Starlight IR PTZ Network Camera, WDR,PAL	
	2MP PTZ	DH-SD49212TN-HN	2MP 12x Starlight IR PTZ Network Camera, WDR,NTSC	
	Camera	SD49212T-HN	2MP 12x Starlight IR PTZ Network Camera, WDR,PAL	
		SD49212TN-HN	2MP 12x Starlight IR PTZ Network Camera, WDR,NTSC	
		PFB305W	Wall Mount	
		PFA111	Mount Adapter	
		DC12V/3A	Power Adapter	
	Accessories	PFA140	Power Box	
		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



PFB300C Ceiling Mount



PFA151



DC12V/3A Power Adapter





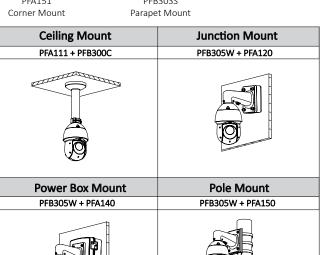
PFB303S



PFA140 Power Box



PFA150 Pole Mount







-	
Corner Mount	Parapet Mount
PFB305W + PFA151	PFA111+ PFB303S

## Dimensions (mm)

