

# 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.



Technical Specification				Video		
Camera			Compression	H.265+/H.265/H.264+/H.264		
Image Sensor	1/2.8	1/2.8" STARVIS™ CMOS			Streaming Capability	3 Streams
Effective Pixels	1920	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 1024M/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)			D'' D	Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)		
S/N Ratio	More	than 50dB			Bit Rate Control	CBR/VBR
IR Distance	Dista	nce up to 100m (328ft)			Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control	Auto	/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		/Manual	nual		Electronic Image Stabilization (EIS)	N/A
		m~ 1000mm			Defog	Support
DORI Distance					Digital Zoom	16x
*Note: The DORI distance is a "general proximity" of distance which makes it easy to				Flip	180°	
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				Privacy Masking	Up to 24 areas	
		d Identify respectively.	ldentif.		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  Manual Control Spe		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°  Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /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,QoS,Bonjour,802.1x
Preset Speed	Pan:	Pan: 240° /s; Tilt: 200° /s			Interoperability	ONVIF, PSIA, CGI
Presets	300	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				NAS (Network Attached Storage), Local PC for
Power up Action		Auto restore to previous PTZ and lens status after power failure			Edge Storage	instant recording, Micro SD card 128GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Web Viewer  Management Software	IE, Chrome, Firefox, Safari Smart PSS, DSS
Protocol		DH-SD			Smart Phone	IOS, Android
Intelligence			Certifications	, / 11141014		
Auto Tracking		N/A			Certifications	CE: EN55032/EN55024/EN50130-4
IVS		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 mornation				
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		
	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



PFB300C Ceiling Mount



PFA151 Corner Mount



DC12V/3A Power Adapter







Parapet Mount



PFA140 Power Box



PFA150 Pole 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)



