

DH-SD40212T-HN 2MP 12x Starlight PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 12x optical zoom
- Support Triple-streams encoding
- · Max. 25/30fps@1080P
- · IVS
- · Support PoE+
- · IP66, IK10



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 +60 °C (-40 °F to +140°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV lightning rating 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.



Lite Series | DH-SD40212T-HN

Technical Specification

Camera

Image Sensor	1/2.8″ STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	1024M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A

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	
883m(2897ft)	353m(1158f	t)	177m(581ft)	88m(289ft)	
РТZ					
Pan/Tilt Range		Pan: 0°	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°,auto flip 180°		
Manual Control Spee	ed	Pan: 0.	1° ~300° /s; Tilt: 0.1° ~	120° /s	
Preset Speed		Pan: 30	00° /s; Tilt: 200° /s		
Presets		300			
PTZ Mode	5 Patte		Pattern, 8 Tour, Auto Pan ,Auto Scan		
Speed Setup	Huma		man-oriented focal Length/ speed adaptation		
Power up Action			to restore to previous PTZ and lens status after wer failure		
Idle Motion			e Preset/ Scan/ Tour/ F and in the specified pe		
Protocol	DH-S		SD		
Intelligence					
Event Trigger dis		discon	Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly		
Auto Tracking	N/A				
IVS	Tripwin		wire, Intrusion, Abandoned/Missing		

Advanced Intelligent Functions	Face Detection	
Video		
Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)	
Streaming Capability	3 Streams	
Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)	
	Main stream: 1080P/720P(1 ~ 25/30fps)	
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)	
	Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.265/H.264: 448K ~ 8192Kbps	
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 Detection	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.711Mu/G.726/AAC	
Network		
Ethernet	RJ-45 (10XBase-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 Profile S&G, API	
Streaming Method	Unicast / Multicast	
Max. User Access	20 users	
Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, DMSS	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UI : UI 60950-1+CAN/C54 C22 2 No 60950-1	



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

Lite Series | DH-SD40212T-HN

Interface

interface	
Video Interface	N/A
RS485	N/A
Audio I/O	1/1
Alarm I/O	2/1
Electrical	
Power Supply	DC 24V/2.5A(±25%), PoE+(802.3at)
Power Consumption	12W, 22W
Environmental	
Operating Conditions	-40°C \simeq 60°C (-40°F \simeq +140°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ186(mm)×234(mm)
Net Weight	2.3kg(5.07lb)
Gross Weight	4.3kg(9.48lb)

Ordering Information

Туре	Part Number	Description
2MP PTZ Camera	DH-SD40212T-HN	2MP 12x Starlight PTZ Network Camera, WDR, PAL
	DH-SD40212TN-HN	2MP 12x Starlight PTZ Network Camera, WDR, NTSC
	SD40212T-HN	2MP 12x Starlight PTZ Network Camera, WDR, PAL
	SD40212TN-HN	2MP 12x Starlight PTZ Network Camera, WDR, NTSC
	PFB300S	Wall Mount
Accessories	PFA110	Mount Adapter
	DC24V/2.5A	Power Adapter
	PFA140	Power Box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:

Optional:



PFA140

Power Box



Mount Adapter



DC24V/2.5A Power Adapter







PFA120 Junction Box



PFB300C

Ceiling Mount



TIAIJU	
Pole Mount	

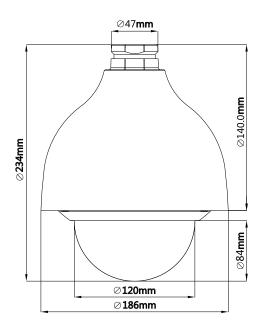
PFA151 Corner Mount

Parapet Mount

Ceiling Mount	Junction Mount
PFA110 + PFB300C	PFA110 + PFB300S + PFA120
Power Box Mount	Pole Mount
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150
Corner Mount	Parapet Mount
PFA110 + PFB300S + PFA151	PFA110 + PFB303S



Dimensions (mm)





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