

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.

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 making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. 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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Lite Series | DH-SD40212T-HN

Technical Specification

Camera

1/2.8" STARVIS™ CMOS
1920(H) x 1080(V), 2 Megapixels
1024M/128M
Progressive
1/1s~1/30,000s
Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6
More than 55dB
N/A
N/A
N/A
5.3mm~64mm
F1.6 ~ F4.4
H: 58.2° ~ 4.8°
12x
Auto/Manual
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(1158ft)		177m(581ft)	88m(289ft)	
PTZ					
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°,auto flip 180°		° ~ 90°,auto flip 180°		
Manual Control Speed		Pan: 0.1° ~300° /s; Tilt: 0.1° ~120° /s			
Preset Speed	Par		set Speed Pan: 300° /s; Tilt: 200° /s		
Presets	ts		300		
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		N/A			
IVS		Tripwin Detect	e, Intrusion, Abandone ion	d/Missing, Face	

Video	
Compression	H.265+/H.265/H.264+/H.264
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 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.711Mu/G.726/AAC
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

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Interface

interface		
Video Interface	N/A	
RS485	N/A	
Audio I/O	1/1	
Alarm I/O	2/1	
Electrical		
Power Supply	AC 24V/1.5A(±10%), PoE+(802.3at)	
Power Consumption	12W,22W (Heater on)	
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
Accessories	PFB300S	Wall Mount
	PFA110	Mount Adapter
	AC24V/1.5A	Power Adapter
	PFA140	Power box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet mount

Accessories

Included:

Optional:





PFA110

Mount Adapter



AC24V/1.5A Power Adapter







PFA120 Junction Box





PFB300C

Ceiling Mount



PFA150 Pole Mount

PFA140

Power box

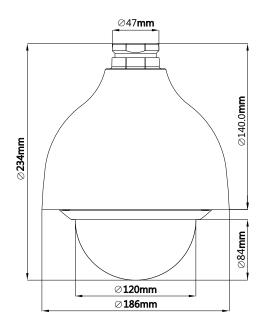
PFA151 Corner Mount

PFB303S 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

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Dimensions (mm)





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