

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.



recillical spe	Technical Specification			Advanced Intelligent Functions	Face Detection
Camera				Video	
Image Sensor		1/2.8" STARVIS™ CMOS		Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Effective Pixels		1920(H) x 1080(V), 2 Megapixels		Streaming Capability	3 Streams
RAM/ROM		1024M/128M		Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
Scanning System		Progressive		Frame Rate	Main stream: 1080P/720P(1 ~ 25/30fps)
Electronic Shutter Speed		1/1s~1/30,000s			Sub stream1: D1/CIF(1 ~ 25/30fps)
Minimum Illumination		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6			Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)
IR Distance		N/A		Bit Rate Control	CBR/VBR
IR On/Off Control	N/A	N/A		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR LEDs		N/A			
Lens				Day/Night	Auto(ICR) / Color / B/W
Focal Length	5.3	5.3mm~64mm		Backlight Compensation	BLC / HLC / WDR(120dB)
Max. Aperture		F1.6 ~ F4.4		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Angle of View	H: 5	H: 58.2° ~ 4.8°		Gain Control	Auto / Manual
Optical Zoom	12×	12x		Noise Reduction	Ultra DNR (2D/3D)
		Auto/Manual		Motion Detection	Support
Close Focus Distance 1		100mm~ 1000mm		Region of Interest	Support
DORI Distance				Electronic Image Stabilization (EIS)	N/A
*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				Defog	Support
sensor specification	and lab test result a	according to EN 62676- and Identify respectivel	4 which defines the	Digital Zoom	16x
Detect	Observe	Recognize	, Identify	Flip	180°
883m(2897ft)	353m(1158ft)	177m(581ft)	88m(289ft)	Privacy Masking	Up to 24 areas
PTZ				Audio	
Pan/Tilt Range	Par	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°		Compression	G.711a/G.711Mu/G.726/AAC
Manual Control Spe	ed Par	Pan: 0.1° ~300° /s; Tilt: 0.1° ~120° /s		Network	
Preset Speed	Par	Pan: 300° /s; Tilt: 200° /s		Ethernet	RJ-45 (10XBase-T/100Base-TX)
		300		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.:
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Interoperability	ONVIF Profile S&G, API
Speed Setup		Human-oriented focal Length/ speed adaptation		Streaming Method	Unicast / Multicast
Power up Action		Auto restore to previous PTZ and lens status after power failure		Max. User Access	20 users
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Edge Storage	NAS (Network Attached Storage),Local PC for
Protocol		DH-SD			instant recording, Micro SD card 256GB
Intelligence		Web Viewer	IE, Chrome, Firefox, Safari		
Event Trigger		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly		Management Software Smart Phone	Smart PSS, DSS, DMSS IOS, Android
Auto Tracking		N/A		Certifications	
		Tripwire, Intrusion, Abandoned/Missing			

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 24V/2.5A(±25%), PoE+(802.3at)
Power Consumption	12W, 22W

Environmental

Operating Conditions	-40°C $^{\sim}$ 60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф186(mm)×234(mm)
Net Weight	2.3kg(5.07lb)
Gross Weight	4.3kg(9.48lb)

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

Accessories

Included:



PFB300S Wall Mount



Mount Adapter



DC24V/2.5A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



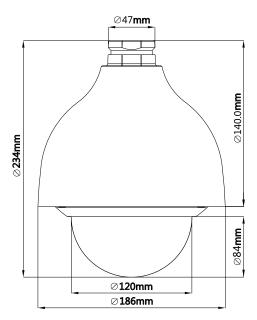
PFA151 Corner Mount



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	

Dimensions (mm)



Please note: This product has built-in transportation protection materials. Please remember to remove these materials during installation.



