

DH-SD12203T-GN-W

2MP 3x Starlight PTZ Wi-Fi Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 3x optical zoom
- · Starlight, WDR
- Max. 25/30fps@1080P
- IVS
- · Support Wi-Fi
- · 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 -30 °C to +60 °C (-22 °F to +140 °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) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spe	cification					Advanced Intelligent Functions	Face Detection
Camera						Video	
Image Sensor 1/2.8		L/2.8" STARVIS™ CMOS				Compression	H.265+/H.265/H.264+/H.264
Effective Pixels 1920		920(H) x 1080(V), 2 Megapixels				Streaming Capability	3 Streams
RAM/ROM 51		512M/128M				Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
Electronic Shutter Speed		1/1s~1/30,000s			Frame Rate	Main stream: 1080P/720P(1 ~ 25/30fps)	
Scanning System		Progressive				Sub stream1: D1/CIF(1 ~ 25/30fps)	
Minimum Illumination		Color: 0.005Lux@F1.8; B/W: 0.0005Lux@F1.8				Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)	
S/N Ratio	N	More than 50dB				Bit Rate Control	CBR/VBR
IR Distance	N	N/A				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control	N	N/A				Day/Night	Auto(ICR) / Color / B/W
IR LEDs	N	N/A				Backlight Compensation	BLC / HLC / WDR (120dB)
Lens						White Balance	Auto, ATW, Indoor, Outdoor, Manual
Focal Length	2	2.7mm~8.1	1mm			Gain Control	Auto / Manual
Max. Aperture	F	F1.8				Noise Reduction	Ultra DNR (2D/3D)
Angle of View H: 105.		H: 105.6° ~ 35.2°			Motion Detection	Support	
Optical Zoom 3x		Зх				Region of Interest	Support
Focus Control Auto		Auto/Manı	ual			Electronic Image Stabilization (EIS)	N/A
Close Focus Distanc	ce 1	100mm~ 1	00mm~ 1000mm			Defog	Support
DORI Distance						Digital Zoom	16x
	_		ity" of distance whice DORI distance is calc			Flip	180°
sensor specification criteria for Detect, (ng to EN 62676-4 we entify respectively.	hich defines the		Privacy Masking	Up to 24 areas
Detect	Observe		ecognize	Identify		Audio	
100.4m(329.4)	40.2m(131.9ft	t) 20	0.1m(65.9ft)	10m(32.8ft)		Compression	G.711a/G.711mu/G.726/AAC
PTZ						Network	
Pan/Tilt Range	Р	Pan: 0° ~ 355°; Tilt: 5° ~ 90°				Ethernet	RJ-45 (10Base-T/100Base-TX)
Manual Control Spe	eed P	Pan: 0.1° ~	70° /s; Tilt: 0.1° ~30	°/s		Wi-Fi	Wi-Fi(IEEE802.11a/b/g/n/ac) , Dual-Band Wi-Fi
Preset Speed		Pan: 80° /s; Tilt: 40° /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
			to Pan			Interoperability	ONVIF Profile S&G, API
		8 Tour, Auto Pan Human-oriented focal Length/ speed adaptation				Streaming Method	Unicast / Multicast
		Auto restore to previous PTZ and lens status after				Max. User Access	20 users
Idle Motion A		power failure Activate Preset/Tour if there is no command in the				Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Protocol		specified period DH-SD				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, DMSS
-		Motion detection, Video tampering, Network				Smart Phone	IOS, Android
Event Trigger		disconnection, IP address conflict, Illegal access, Storage anomaly				Certifications	
		N/A				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014
IVS		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	Mic in/Line in, Line out
Alarm I/O	N/A

Electrical

Power Supply	DC 12V/1.5A
Power Consumption	6W

Environmental

Operating Conditions	-30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	IK08

Construction

Casing	Metal
Dimensions	Ф128 (mm) x 63 (mm)
Net Weight	0.485kg(1.07lb)
Gross Weight	0.7kg(1.54lb)

Ordering Information

Туре	Part Number	Description
2MP PTZ Camera	DH-SD12203T-GN-W	2MP 3x Starlight PTZ Wi-Fi Network Camera, WDR, PAL
	DH-SD12203TN-GN-W	2MP 3x Starlight PTZ Wi-Fi Network Camera, WDR, NTSC
	SD12203T-GN-W	2MP 3x Starlight PTZ Wi-Fi Network Camera, WDR, PAL
	SD12203TN-GN-W	2MP 3x Starlight PTZ Wi-Fi Network Camera, WDR, NTSC
Accessories	PFA107	Mount Adapter
	PFB305W	Wall Mount
	PFB220C	Ceiling Mount
	DC12V/2A	Power Adapter

Accessories

Optional:



Mount Adapter

PFB305W Wall Mount





DC12V/2A Power Adapter

Wall Mount	Ceiling Mount
PFB305W+PFA107	PFB220C+PFA107

Dimensions (mm)



