

DH-SD1A203T-GN-W

2MP 3x Starlight IR 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
- · IR distance up to 15m
- · 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 Specification		Advanced Intelligent Functions	Face Detection		
Camera				Video	
Image Sensor	1/2.8	1/2.8" STARVIS™ CMOS		Compression	H.265+/H.265/H.264+/H.264
Effective Pixels	1920	(H) x 1080(V), 2 Mega	pixels	Streaming Capability	3 Streams
RAM/ROM	512N	1/128M		Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
Scanning System	Prog	essive			Main stream: 1080P/720P(1 ~ 25/30fps)
Electronic Shutter Sp	peed 1/1s	1/30,000s		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Minimum Illumination	∩n	:: 0.005Lux@F1.8; B/W @F1.8 (IR on)	/: 0.0005Lux@F1.8;		Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)
S/N Ratio		than 50dB		Bit Rate Control	CBR/VBR
IR Distance	Dista	nce up to 15m (49.2ft)		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control	Auto	/Manual		Day/Night	Auto(ICR) / Color / B/W
IR LEDs	3			Backlight Compensation	BLC / HLC / WDR(120dB)
Lens				White Balance	Auto,ATW,Indoor,Outdoor,Manual
Focal Length	2.7m	m~8.1mm		Gain Control	Auto / Manual
Max. Aperture	F1.8			Noise Reduction	Ultra DNR (2D/3D)
Angle of View	H: 10	5.6° ~ 35.2°		Motion Detection	Support
Optical Zoom			Region of Interest	Support	
Focus Control Auto/Manual		Electronic Image Stabilization	N/A		
Close Focus Distance	e 100n	nm~ 1000mm		(EIS)	
DORI Distance			Defog	Support	
		oximity" of distance w		Digital Zoom	16x
sensor specification	and lab test result ac	The DORI distance is coording to EN 62676-4	which defines the	Flip	180°
Detect	Observe, Recognize an	d Identify respectively. Recognize	Identify	Privacy Masking	Up to 24 areas
100.4m(329.4)	40.2m(131.9ft)	20.1m(65.9ft)	10m(32.8ft)	Audio	
PTZ	40.2111(131.911)	20.1111(03.91t)	10111(32.611)	Compression	G.711a/G.711mu/G.726/AAC
	Dane	0° ~ 255°. Til+. 5° ~ 00°		Network	
Pan/Tilt Range		0° ~ 355°; Tilt: 5° ~ 90°	220° /s	Ethernet	RJ-45 (10XBase-T/100Base-TX)
Manual Control Spec		0.1° ~70° /s; Tilt: 0.1° ^	30 /8	Wi-Fi	Wi-Fi(IEEE802.11a/b/g/n/ac) , Dual-Band Wi-Fi
Preset Speed Presets	300	Pan: 80° /s; Tilt: 40° /s 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	8 Tou	r		Interoperability	ONVIF Profile S&G, API
Speed Setup Human		Human-oriented focal Length/speed adaptation		Streaming Method	Unicast / Multicast
Power up Action Auto restore to power failure		•	Z and lens status after	Max. User Access	20 users
Idle Motion Activate Preset/Tour if there is no command in the specified period		e is no command in the	Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Protocol DH-SD			Web Viewer	IE, Chrome, Firefox, Safari	
Intelligence				Management Software	Smart PSS, DSS, DMSS
Event Trigger		on detection, Video ta		Smart Phone	IOS, Android
Event Trigger		nnection, IP address c ge anomaly	omnici, megai access,	Certifications	
	N/A				CE: EN55032/EN55024/EN50130-4

Int		

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	7.8W, 10.5W (IR on)

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	0.49kg(1.08lb)
Gross Weight	0.73kg(1.6lb)

Ordering Information

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Туре	Part Number	Description
2MP PTZ Camera	DH-SD1A203T-GN-W	2MP 3x Starlight IR PTZ Wi-Fi Network Camera, WDR, PAL
	DH-SD1A203TN-GN-W	2MP 3x Starlight IR PTZ Wi-Fi Network Camera, WDR, NTSC
	SD1A203T-GN-W	2MP 3x Starlight IR PTZ Wi-Fi Network Camera, WDR, PAL
	SD1A203TN-GN-W	2MP 3x Starlight IR PTZ Wi-Fi Network Camera, WDR, NTSC
Accessories	PFA107	Mount Adapter
	PFB305W	Wall Mount
	PFB220C	Ceiling Mount
	DC12V/2A	Power Adapter

Accessories

Optional:



PFA107 Mount Adapter



PFB305W Wall Mount



Ceiling Mount



DC12V/2A Power Adapter

Wall Mount	Ceiling Mount	
PFB305W+PFA107	PFB220C+PFA107	

Dimensions (mm)

