

DH-SD1A203T-GN

2MP 3x Starlight IR PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 3x optical zoom
- · Starlight, WDR
- Max. 25/30fps@1080P
- · IVS
- Support PoE
- · 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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.





Technical Spe	cification					Video	
Camera						Compression	H.265+/H.265/H.264+/H.264
Image Sensor 1/2.8"		1/2.8" STARVIS™ CMOS			Streaming Capability	3 Streams	
Effective Pixels 1920(H)		H) x 1080(V), 2 Megapia	cels		Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)	
RAM/ROM 5		512M/128M			Frame Rate	Main stream: 1080P/720P(1 ~ 25/30fps)	
Scanning System		Progressive					Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed		1/1s~1/30,000s					
Minimum Illumination Co		Color:	0.005Lux@F1.8; 0Lux@	9F1.8 (IR on)			Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)
S/N Ratio		More than 50dB				Bit Rate Control	CBR/VBR
IR Distance		Distance 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		2.7mm	n~8.1mm			Gain Control	Auto / Manual
Max. Aperture		F1.8				Noise Reduction	Ultra DNR (2D/3D)
Angle of View H:		H: 105.6° ~ 35.2°			Motion Detection	Support	
Optical Zoom 3		3x				Region of Interest	Support
Focus Control A		Auto/Manual			Electronic Image Stabilization (EIS)	N/A	
Close Focus Distance		100mm~ 1000mm			Defog	Support	
DORI Distance						Digital Zoom	16x
			cimity" of distance whi			Flip	180°
sensor specification	n and lab test res	ult acco	he DORI distance is cal ording to EN 62676-4 w Identify respectively.			Privacy Masking	Up to 24 areas
Detect Observe			Recognize	Identify		Audio	
100.4m(329.4) 40.2m(131.9ft)		ft)	20.1m(65.9ft)	10m(32.8ft)		Compression	G.711a/G.711mu/G.726/AAC
PTZ					Network		
Pan/Tilt Range		Pan: 0°	° ~ 355°; Tilt: 5° ~ 90°			Ethernet	RJ-45 (10/100Base-T)
Manual Control Spe	eed	Pan: 0.1° ~70° /s; Tilt: 0.1° ~30° /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
Preset Speed		Pan: 80° /s; Tilt: 40° /s				Interoperability	ONVIF, PSIA, CGI
Presets		300				Streaming Method	Unicast / Multicast
PTZ Mode		8 Tour				Max. User Access	20 users
Speed Setup		Human-oriented focal Length/speed adaptation					NAS (Network Attached Storage),Local PC for
Power up Action		Auto restore to previous PTZ and lens status after power failure				Edge Storage	instant recording, Micro SD card 256GB
Idle Motion		Activate Preset/Tour if there is no command in the specified period				Web Viewer	IE, Chrome, Firefox, Safari
Protocol		DH-SD				Management Software Smart Phone	Smart PSS, DSS IOS, Android
Intelligence					Smart Pnone Certifications	103, Allululu	
Auto Tracking		N/A			Cerunications	CF. ENERGO22/ENERGO24/ENERGA20. A	
		Triumin Internet About 1/541				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014



IVS

Tripwire, Intrusion, Abandoned/Missing, Face Detection

Certifications

FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1

Lite Series | DH-SD1A203T-GN

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, PoE(802.3af)
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 Part Number Description Type 2MP 3x Starlight IR PTZ Network DH-SD1A203T-GN Camera, WDR, PAL 2MP 3x Starlight IR PTZ Network DH-SD1A203TN-GN Camera, WDR, NTSC 2MP PTZ Camera 2MP 3x Starlight IR PTZ Network SD1A203T-GN Camera, WDR, PAL 2MP 3x Starlight IR PTZ Network SD1A203TN-GN Camera, WDR, NTSC PFA107 Mount Adapter PFB305W Wall Mount Accessories PFB220C Ceiling Mount DC12V/2A Power Adapter

Accessories

Optional:







PFB305W Wall Mount





PFA107

Mount Adapter

DC12V/2A Power Adapter

Wall Mount	Ceiling Mount
PFB305W+PFA107	PFB220C+PFA107

Dimensions (mm)





