

# 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) specifications, ensuring interoperability between network video products regardless of manufacturer.



# Lite Series | DH-SD1A203T-GN

## **Technical Specification**

### Camera

Camera	
Image Sensor	1/2.8" STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	512M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.005Lux@F1.8; B/W: 0.0005Lux@F1.8; 0Lux@F1.8 (IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 15m (49.2ft)
IR On/Off Control	Auto/Manual
IR LEDs	3
Lens	
Focal Length	2.7mm~8.1mm
Max. Aperture	F1.8
Angle of View	H: 105.6° ~ 35.2°
Optical Zoom	Зх
Focus Control	Auto/Manual
Close Focus Distance	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	
100.4m(329.4)	40.2m(131.9ft)		20.1m(65.9ft)	10m(32.8ft)	
PTZ					
Pan/Tilt Range	Range		Pan: 0° ~ 355°; Tilt: 5° ~ 90°		
Manual Control Speed		Pan: 0.1° ~70° /s; Tilt: 0.1° ~30° /s			
Preset Speed	ed		Pan: 80° /s; Tilt: 40° /s		
Presets	Presets		300		
PTZ Mode		8 Tour			
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/Tour if there is no command in the specified period			
Protocol		DH-SD			
Intelligence					
Event Trigger		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly			
Auto Tracking		N/A			

IVS	Tripwire, Intrusion, Abandoned/Missing	
Advanced Intelligent Functions	Face Detection	
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)	
Frame Rate	Main stream: 1080P/720P(1 ~ 25/30fps)	
	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 Detection	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 (10XBase-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 Profile S&G, API	
Streaming Method	Unicast / Multicast	
Max. User Access	20 users	
Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, DMSS	
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	

# 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	Φ128(mm) x 63(mm)
Net Weight	0.49kg(1.08lb)
Gross Weight	0.73kg(1.6lb)

# **Ordering Information**

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

### Accessories

# Optional:







PFA107 Mount Adapter



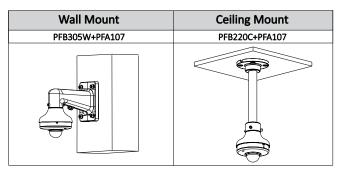
Wall Mount



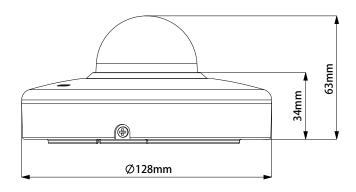
PFB305W

PFB220C Ceiling Mount





**Dimensions (mm)** 





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