

# 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" STARVIS™ CMOS			Streaming Capability	3 Streams		
Effective Pixels	19	1920(H) x 1080(V), 2 Megapixels			Resolution	1080P(1920×1080)/720P(1280×720)/
RAM/ROM 512M/128M				D1(704×576/704×480)/CIF(352×288/352×240)  Main stream: 1080P/720P(1 ~ 25/30fps)		
Scanning System		Progressive			Frame Rate	
Electronic Shutter Speed		1/1s~1/30,000s				Sub stream1: D1/CIF(1 ~ 25/30fps)
Minimum Illumination Color: 0.005Lux@F1.8; 0Lux@F		@F1.8 (IR on)		Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)		
S/N Ratio More than 50dB			Bit Rate Control	CBR/VBR		
IR Distance	Dis	stance up to 15m (49.2ft)			Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control	Au	Auto/Manual			Day/Night	Auto(ICR) / Color / B/W
IR LEDs 3		3			Backlight Compensation	BLC / HLC / WDR(120dB)
Lens					White Balance	Auto,ATW,Indoor,Outdoor,Manual
Focal Length 2.7mm~8.1mm			Gain Control	Auto / Manual		
Max. Aperture	F1	8			Noise Reduction	Ultra DNR (2D/3D)
Angle of View H: 105.6° ~ 35.2°				Motion Detection	Support	
Optical Zoom 3x				Region of Interest	Support	
Focus Control Auto/Manual				Electronic Image Stabilization (EIS)	N/A	
Close Focus Distance 100mm~ 100		0mm~ 1000mm			Defog	Support
DORI Distance					Digital Zoom	16x
		proximity" of distance whi			Flip	180°
sensor specification	and lab test result	ls. The DORI distance is cal according to EN 62676-4 was and Identify respectively			Privacy Masking	Up to 24 areas
criteria for Detect, Observe, Recognize and  Detect Observe		Recognize	Identify		Audio	
100.4m(329.4)	40.2m(131.9ft)	20.1m(65.9ft)	10m(32.8ft)		Compression	G.711a/G.711mu/G.726/AAC
PTZ	,	,	, ,		Network	
Pan/Tilt Range	Pa	n: 0° ~ 355°; Tilt: 5° ~ 90°			Ethernet	RJ-45 (10/100Base-T)
		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,802.1:
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
Power up Action Aut		Human-oriented focal Length/speed adaptation  Auto restore to previous PTZ and lens status after			Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
		power failure  Activate Preset/Tour if there is no command in the			Web Viewer	IE, Chrome, Firefox, Safari
IGIE MODOU		specified period			Management Software	Smart PSS, DSS
Protocol E		DH-SD			Smart Phone	IOS, Android
Intelligence					Certifications	
IVS TI		N/A  Tripwire, Intrusion, Abandoned/Missing, Face			Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1
	De	Detection				

#### 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 ${\it 2MP~3x~Starlight~IR~PTZ~Network}$ 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:







PFA107 Mount Adapter

PFB305W Wall Mount

PFB220C Ceiling Mount



DC12V/2A Power Adapter

Wall Mount	Ceiling Mount	
PFB305W+PFA107	PFB220C+PFA107	

# **Dimensions (mm)**



