

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.



Technical Specific	cation			IVS	Tripwire, Intrusion, Abandoned/Missing
Camera		Advanced Intelligent Functions	Face Detection		
Image Sensor 1/2.8" STARVIS™ CMOS		Video			
Effective Pixels	1920(H	1920(H) x 1080(V), 2 Megapixels		Compression	H.265+/H.265/H.264+/H.264
RAM/ROM 512M/128M		Streaming Capability	3 Streams		
Scanning System Progressive		Resolution	1080P(1920×1080)/720P(1280×720)/		
Electronic Shutter Speed 1/1s~1/30,000s		Resolution	D1(704×576/704×480)/CIF(352×288/352×240)		
Color: 0.005L		0.005Lux@F1.8; B/W:	0.0005Lux@F1.8;		Main stream: 1080P/720P(1 ~ 25/30fps)
OLux@F1.8 (IR on)		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)		
S/N Ratio More than 50dB			Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)		
	IR Distance up to 15m (49.2ft)			Bit Rate Control	CBR/VBR
IR On/Off Control		Manual		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR LEDs 3			Day/Night	Auto(ICR) / Color / B/W	
Lens				Backlight Compensation	BLC / HLC / WDR(120dB)
Focal Length	2.7mm	n~8.1mm		White Balance	Auto,ATW,Indoor,Outdoor,Manual
Max. Aperture	F1.8	F1.8		Gain Control	Auto / Manual
Angle of View	H: 105	H: 105.6° ~ 35.2°		Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom	3x	3x		Motion Detection	Support
Focus Control	Focus Control Auto/Manual			Region of Interest	Support
Close Focus Distance	100mr	m~ 1000mm		Electronic Image Stabilization (EIS)	N/A
DORI Distance				Defog	Support
*Note: The DORI distance pinpoint the right camer	ra for your needs. T	he DORI distance is ca	lculated based on	Digital Zoom	16x
sensor specification and criteria for Detect, Obser			vhich defines the	Flip	180°
Detect O	Observe	Recognize	Identify	Privacy Masking	Up to 24 areas
100.4m(329.4) 4	0.2m(131.9ft)	20.1m(65.9ft)	10m(32.8ft)	Audio	
PTZ				Compression	G.711a/G.711mu/G.726/AAC
Pan/Tilt Range	Pan/Tilt Range Pan: 0° ~ 355°; Tilt: 5° ~ 90°			Network	
Manual Control Speed	Pan: 0	Pan: 0.1° ~70° /s; Tilt: 0.1° ~30° /s		Ethernet	RJ-45 (10XBase-T/100Base-TX)
		an: 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,802.1
Presets PTZ Mode	8 Tour			Interoperability	ONVIF Profile S&G, API
				Streaming Method	Unicast / Multicast
Autor		uman-oriented focal Length/speed adaptation uto restore to previous PTZ and lens status after		Max. User Access	20 users
Power up Action	power	power failure		Edge Storage	NAS (Network Attached Storage),Local PC for 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 PSS, DSS, DMSS
Intelligence				Smart Phone	IOS, Android
Event Trigger d		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly		Certifications	
Event Trigger					CE: EN55032/EN55024/EN50130-4

Lite Series | DH-SD1A203T-GN

Interface

N/A
N/A
Mic in/Line in, Line out
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:







PFB305W Wall Mount



PFB220C Ceiling Mount



DC12V/2A Power Adapter

Wall Mount	Ceiling Mount
PFB305W+PFA107	PFB220C+PFA107

Dimensions (mm)



