

# DH-PTZ1C203UE-GN

2MP 3x Starlight IR PTZ Network Camera



## **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.

### **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 4KV 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.

## **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.

- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 3x optical zoom
- · Starlight technology
- · Max. 25/30fps@1080P
- · IVS
- · W/DR
- · H.265 Encoding
- · Support PoE
- · IR distance up to 20m
- · IP66













#### 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.



## Lite Series | DH-PTZ1C203UE-GN

Technical Specification					Video Bit Rate	H.264: 216Kbps-8192Kbps
Camera				Day/Night	H.265: 108Kbps-8192Kbps	
Image Sensor	1/2.8" STARVIS™ CMOS					
Max. Resolution	2MP				BLC	Support
Effective Pixels	1920 (H) × 1080 (V)				WDR	120dB
ROM	128MB				HLC	Support
RAM	256MB				White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp Natural/Street lamp
Electronic Shutter Speed	1/3-1/30000s				Gain Control	Auto/Manual
	Color: 0.005Lux@F1.8				Noise Reduction	2D/3D
Minimum Illumination	B/W: 0.0005Lux@F1.8 OLux (IR light on)				Motion Detection	Support
IR Distance	20m (65.6ft)				Region of Interest (RoI)	Support
IR On/Off Control	Zoom Prio/N	/Janual/Smartl	R		Electronic Image Stabilization	Support
IR LED Number	1				Defog	Electronic Defog
Lens					Digital Zoom	16x
Focal Length	2.7mm-8.1mm				Audio	
Aperture	F1.8~F2.7				Audio Compression	G.711A; G.711Mu; G.726; AAC; MPEG2-Layer2;
Field of View	H: 46.43°–106.79°				·	G.722.1; G.729
Tield of View	V: 25.91°–57.88°				Audio In	1
Optical Zoom	3x				Audio Out	1
Focus Control	Auto/Semi-Auto/Manual				Network	
Close Focus Distance	0.8m-1.7m				Ethernet Port	1 RJ-45 Port 10/100Base-T
Iris Control	Fixed Iris  Detect Observe Recognize Identify			Identify	Network Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; SNMPv1/v2c/ v3(MIB-2); ARP; RTCP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE
DORI Distance	101.4m	40.6m	20.3m	10.1m	Interoperability	ONVIF; CGI
	(332.68 ft)	(133.20 ft)	(66.60 ft)	(33.14 ft)	Streaming Method	Unicast / Multicast
PTZ					User/Host	20 (Total bandwidth 48M)
Pan/Tilt Range	Pan: 0°–180°; Tilt: -5°–55°				Edge Storage	FTP; Micro SD card (256G); P2P
Manual Control Speed	Pan: 6°/s; Tilt	t: 3°/s				IE7 and newer versions
Intelligence					Browser	Chrome 42 and older versions Firefox 52 and older versions Safari
IVS	Tripwire; Inti	rusion; Object	Abandoned/N	Missing		Smart player
Advanced Intelligence	Heat Map; Face Detection				Management Software	Configtool SMART PSS DMSS
Video				- 61		DSS
Video Compression	H.265; H.264BaselineProfile; H.264MainProfile; H.264HighProfile; MJPEG; H.265+; H.264+				Certifications	of Energod (Energod) (Energod)
Streaming Capability	3 Streams				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014
Resolution	1080P (1920×1080); 1.3M (1280×960); 720P (1280×720); D1 (704×576); CIF (352×288)				Electrical	
	Main Stream: 1080P/1.3M/720P(1–25/30fps)				Power Supply	DC12V/1.5A±10% POE (802.3af)
Video Frame Rate	Sub Stream 2 D1/CIF(1–25,	1:			Power Consumption	7W 11W (PTZ, IR light)
	Sub Stream 2				Environmental	
Bit Rate Control	Variable Bit Rate/Constant Bit Rate				Operating Conditions	-30°C to +60°C (−22°F to 140°F)
	,					



## Lite Series | DH-PTZ1C2O3UE-GN

On another allowed district	40F0/ DU
Operating Humidity	≤95% RH
Ingress Protection	IP66; TVS 4000V lightning protection; surge protection
Construction	

#### Construction

Housing Material	Aluminium alloy ADC12	
Dimensions	Wall mounted: 195.3mm×90mm×102.7mm (7.69""×3.54""×4.04"") Ceiling mounted: 190.8mm×90mm×112.2mm (7.51""×3.54""×4.12"")	
Weight	Net Weight: 0.9 kg (1.98 lb); Gross Weight: 1.2 kg (2.65 lb)	

Ordering Information					
Туре	Model	Description			
2MP PTZ Camera	DH-PTZ1C203UE-GN	2MP 3x Starlight IR PTZ Network Camera, WDR, PAL			
	DH-PTZ1C203UEN- GN	2MP 3x Starlight IR PTZ Network Camera, WDR, NTSC			
	PTZ1C203UE-GN	2MP 3x Starlight IR PTZ Network Camera, WDR, PAL			
	PTZ1C203UEN-GN	2MP 3x Starlight IR PTZ Network Camera, WDR, NTSC			
Accessories	PFA731	Junction Box (wall-mount)			
	DC12V/2A	Power Adapter			

## Accessories

## Optional:





PFA731 Junction Box (wall-mount)

DC12V/2A Power Adapter

Ceiling Mount	Wall Mount	Wall Mount
		PFA731 Junction Box

## Dimensions (mm/inch)









