

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
- \cdot 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.

Technical Specification					Video Dit Data	H.264: 216Kbps-8192Kbps
Camera					Video Bit Rate	H.265: 108Kbps-8192Kbps
Image Sensor	1/2.8" STARVIS™ CMOS				Day/Night	ICR
Max. Resolution	2MP				BLC	Support
Effective Pixels	1920 (H) × 1	080 (V)			WDR	120dB
ROM	128MB	335 (1)			HLC	Support
RAM	256MB				White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/
Electronic Shutter Speed		Ωs				Natural/Street lamp
Electronic Shutter Speed	1/3–1/30000s				Gain Control	Auto/Manual
Minimum Illumination	Color: 0.005Lux@F1.8 B/W: 0.0005Lux@F1.8 OLux (IR light on)				Noise Reduction	2D/3D
10.00		OLux (IR light on)			Motion Detection	Support
IR Distance	20m (65.6ft)		10		Region of Interest (RoI)	Support
IR On/Off Control		Manual/Smarti	IK		Electronic Image Stabilization	Support
IR LED Number	1	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; G.722.1; G.729
Field of View	H: 46.43°–106.79° 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;
DORI Distance	101.4m	40.6m	Recognize 20.3m	10.1m	Interoperability	ICMP; DHCP; PPPoE 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; Til	t: 3°/s			Luge Storage	IE7 and newer versions
Intelligence					Browser	Chrome 42 and older versions Firefox 52 and older versions Safari
IVS	Tripwire; Int	rusion; Object	Abandoned/N	Aissing		Smart player
Advanced Intelligence	Heat Map; Face Detection				Management Software	Configtool SMART PSS DMSS
Video	H.265: H 26	4BaselineProfi	ile; H.264Main	Profile:	Certifications	DSS
Video Compression			H.265 +; H.264			CE: EN55032/EN55024/EN50130-4
Streaming Capability	3 Streams				Certifications	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) Sub Stream 1: D1/CIF(1–25/30fps) Sub Stream 2:				Power Supply	DC12V/1.5A±10% POE (802.3af)
Video Frame Rate					Power Consumption	7W 11W (PTZ, IR light)
	720P/D1/CIF(1–25/30fps)				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

Operating Humidity	≤95% RH
Ingress Protection	IP66; TVS 4000V lightning protection; surge protection
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:







DC12V/2A Power Adapter

Ceiling Mount	Wall Mount	Wall Mount
		PFA731 Junction Box

Dimensions (mm/inch)





