

DH-PTZ1C203UE-GN

2MP 3x Starlight IR PTZ Network Camera



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

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.

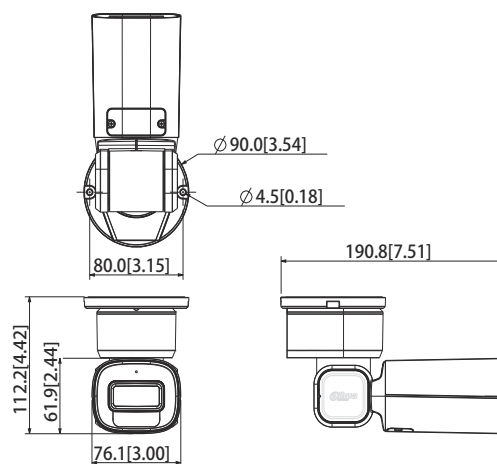
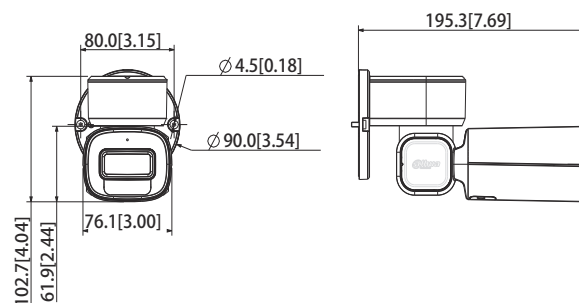
Smart H.265+

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 Bit Rate		H.264: 216Kbps–8192Kbps H.265: 108Kbps–8192Kbps			
Camera							Day/Night		ICR	
Image Sensor		1/2.8" STARVIS™ CMOS								
Max. Resolution		2MP								
Effective Pixels		1920 (H) × 1080 (V)								
ROM		128MB								
RAM		256MB								
Electronic Shutter Speed		1/3–1/30000s								
Minimum Illumination		Color: 0.005Lux@F1.8 B/W: 0.0005Lux@F1.8 0Lux (IR light on)								
IR Distance		20m (65.6ft)								
IR On/Off Control		Zoom Prio/Manual/SmartIR								
IR LED Number		1								
Lens										
Focal Length		2.7mm–8.1mm								
Aperture		F1.8~F2.7								
Field of View		H: 46.43°–106.79° V: 25.91°–57.88°								
Optical Zoom		3x								
Focus Control		Auto/Semi-Auto/Manual								
Close Focus Distance		0.8m–1.7m								
Iris Control		Fixed Iris								
DORI Distance		Detect	Observe	Recognize	Identify					
		101.4m (332.68 ft)	40.6m (133.20 ft)	20.3m (66.60 ft)	10.1m (33.14 ft)					
PTZ										
Pan/Tilt Range		Pan: 0°–180°; Tilt: -5°–55°								
Manual Control Speed		Pan: 6°/s; Tilt: 3°/s								
Intelligence										
IVS		Tripwire; Intrusion; Object Abandoned/Missing								
Advanced Intelligence		Heat Map; Face Detection								
Video										
Video Compression		H.265; H.264BaselineProfile; H.264MainProfile; H.264HighProfile; MJPEG; H.265 +; H.264+								
Streaming Capability		3 Streams								
Resolution		1080P (1920×1080); 1.3M (1280×960); 720P (1280×720); D1 (704×576); CIF (352×288)								
Video Frame Rate		Main Stream: 1080P/1.3M/720P(1–25/30fps) Sub Stream 1: D1/CIF(1–25/30fps) Sub Stream 2: 720P/D1/CIF(1–25/30fps)								
Bit Rate Control		Variable Bit Rate/Constant Bit Rate								
Audio										
Audio Compression		G.711A; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729								
Audio In		1								
Audio Out		1								
Network										
Ethernet Port		1 RJ-45 Port 10/100Base-T								
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								
Interoperability		ONVIF; CGI								
Streaming Method		Unicast / Multicast								
User/Host		20 (Total bandwidth 48M)								
Edge Storage		FTP; Micro SD card (256G); P2P								
Browser		IE7 and newer versions Chrome 42 and older versions Firefox 52 and older versions Safari								
Management Software		Smart player Configtool SMART PSS DMSS DSS								
Certifications										
Certifications		CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014								
Electrical										
Power Supply		DC12V/1.5A±10% POE (802.3af)								
Power Consumption		7W 11W (PTZ, IR light)								
Environmental										
Operating Conditions		–30°C to +60°C (–22°F to 140°F)								

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"×4.41")
Weight	Net Weight: 0.9 kg (1.98 lb); Gross Weight: 1.2 kg (2.65 lb)

Dimensions (mm/inch)



Ordering Information		
Type	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