**Dahua** TECHNOLOGY

# DH-PTZ1C200UE-GN-W
## 2MP Starlight IR PT Wi-Fi Network Camera

· 1/2.8" 2Megapixel STARVIS™ CMOS

· Starlight technology

· Max. 25/30fps@1080P

· WDR

· IVS

· H.265 Encoding

· Support Wi-Fi

· IR distance up to 20m

· IP66

| H.265 | WDR | Wi-Fi | IP66 | ICR D/N | 0.005Lux |

## System Overview

Accurate pan/tilt 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

### Camera

| | |
|---|---|
| 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@F2.0<br>B/W: 0.0005Lux@F2.0<br>0 Lux (IR light on) |
| IR Distance | 20m (65.6ft) |
| IR On/Off Control | Manual/SmartIR |
| IR LED Number | 1 |

### Lens

| | |
|---|---|
| Focal Length | 3.6 mm |
| Aperture | F2.0 |
| Field of View | H: 84.22°; V: 45.8° |
| Close Focus Distance | 0.9 m |
| Iris Control | Fixed Iris |

| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|---|
| | 2.8mm | 43.6 m (143.04 ft) | 17.4 m (57.09 ft) | 8.7 m (28.54 ft) | 4.4 m (14.44 ft) |
| | 3.6mm | 55.2 m (181.10 ft) | 22.1 m (72.51 ft) | 11.0 m (36.09 ft) | 5.5 m (18.04 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 | Face Detection; Heat Map |

### 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:<br>1080P/1.3M/720P(1–25/30fps)<br>Sub Stream 1:<br>D1/CIF(1–25/30fps)<br>Sub Stream 2:<br>720P/D1/CIF(1–25/30fps) |
| Bit Rate Control | Variable Bit Rate/Constant Bit Rate |

| | |
|---|---|
| Video Bit Rate | H.264: 216Kbps–8192Kbps<br>H.265: 108Kbps–8192Kbps |
| Day/Night | ICR |
| BLC | Support |
| WDR | 120dB |
| HLC | Support |
| White Balance | Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural/Street lamp |
| Gain Control | Auto/Manual |
| Noise Reduction | 2D/3D |
| Motion Detection | Support |
| Region of Interest (RoI) | Support |
| Electronic Image Stabilization | Support |
| Defog | Electronic Defog |
| Digital Zoom | 16x |

### 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 |
| Wi-Fi | Support |
| Wi-Fi Standard | IEEE802.11b; 802.11g; 802.11n |
| 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<br>Chrome 42 and older versions<br>Firefox 52 and older versions<br>Safari |
| Management Software | Smart player<br>Configtool<br>SMART PSS<br>DMSS<br>DSS |

### Certifications

| | |
|---|---|
| Certifications | CE: EN55032/EN55024/EN50130-4<br>FCC: Part15 subpartB,ANSI C63.4- 2014 |

### Electrical

| | |
|---|---|
| Power Supply | DC12V/1.5A±10% |
| Power Consumption | 7W<br>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: 195.3 mm×90 mm×102.7 mm (7.69"×3.54"×4.04")<br>Ceiling mounted: 190.8 mm×90 mm×112.2 mm (7.51"×3.54"×4.12") |
| Weight | Net Weight: 0.9 kg (1.98 lb);<br>Gross Weight: 1.2 kg (2.65 lb) |

## Dimensions (mm/inch)
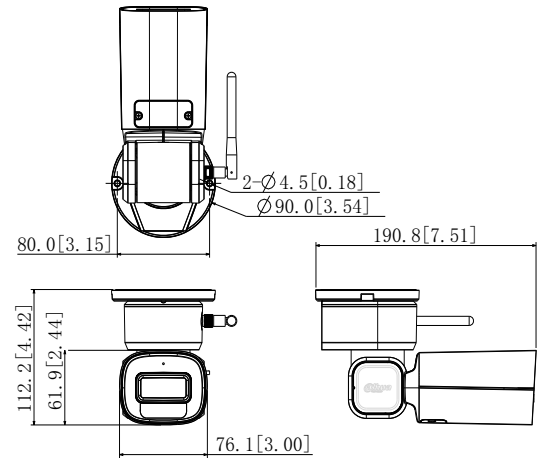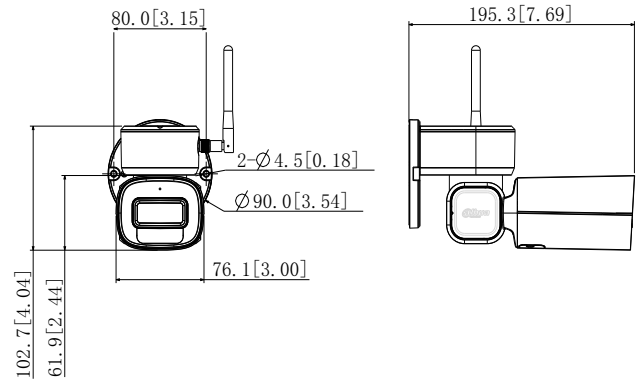


## Ordering Information

| Type | Model | Description |
|---|---|---|
| 2MP PTZ Camera | DH-PTZ1C200UE-GN-W | 2MP Starlight IR PT Wi-Fi Network Camera, WDR, PAL |
| | DH-PTZ1C200UEN-GN-W | 2MP Starlight IR PT Wi-Fi Network Camera, WDR, NTSC |
| | PTZ1C200UE-GN-W | 2MP Starlight IR PT Wi-Fi Network Camera, WDR, PAL |
| | PTZ1C200UEN-GN-W | 2MP Starlight IR PT Wi-Fi 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 |