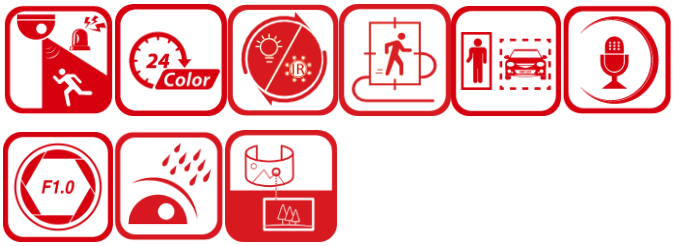
DS-2CD1F87G3HD-LIUF
4MP + 4MP Dual-Lens Mini PT Network Cameras

ColorVu 3.0





- Auto Tracking: person tracking automatically based on Motion Detection 3.0
- HikAI-ISP for excellent noise reduction effect
- Super clear 24/7 colorful imaging with ColorVu 3.0 technology
- Smart Hybrid Light: integrates IR and white lights, 3 supplemental lighting modes
- Motion Detection 3.0: focuses on person and vehicle classification based on deep learning
- Built-in microphone for real-time audio security
- -F: supports on-board storage up to 512 GB (SD card slot)
- Dust and water resistant (IP66)

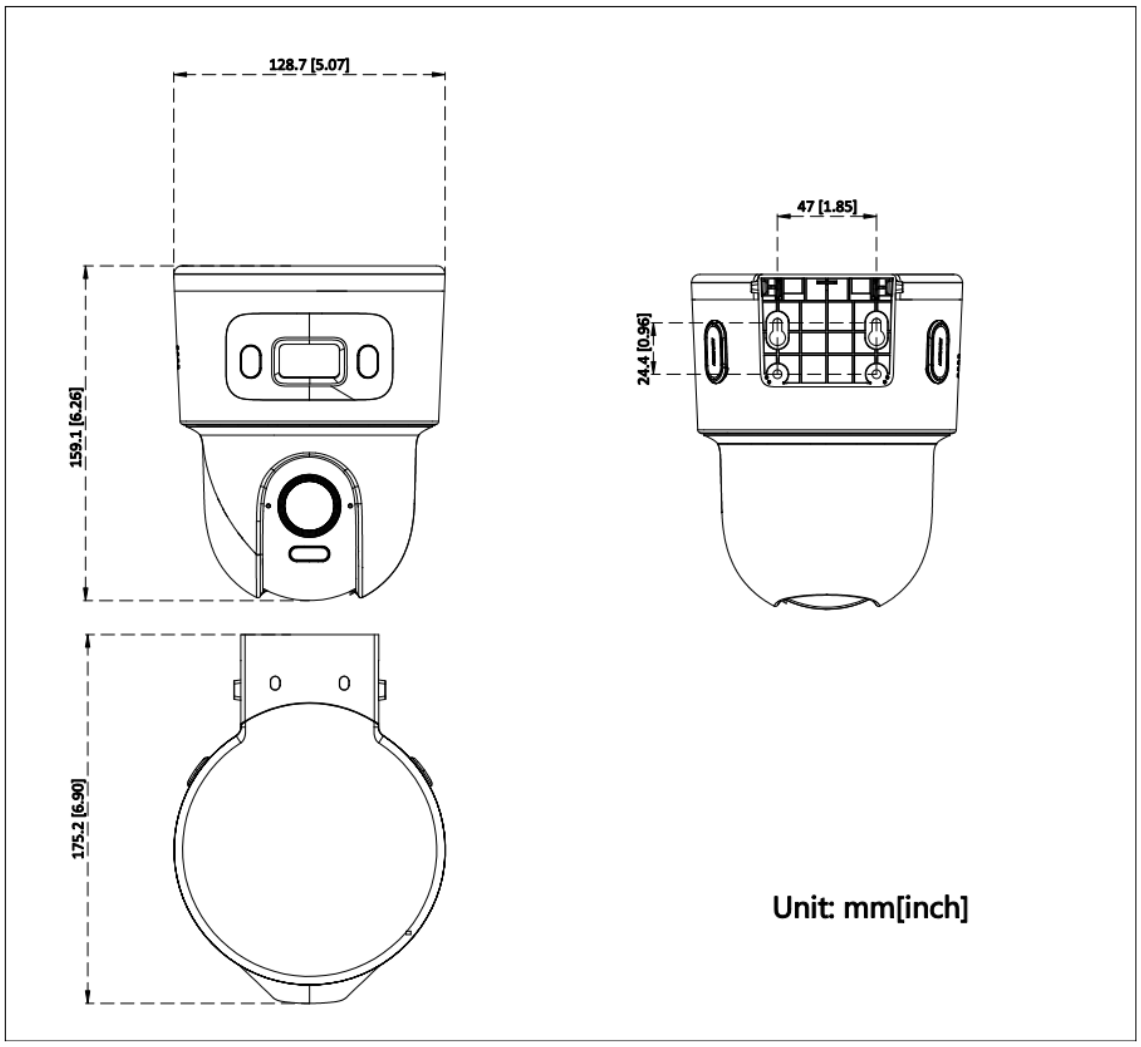
▪ Specification

Camera	
Image Sensor	Bullet channel: 1/1.8" Progressive Scan CMOS PT channel: 1/1.8" Progressive Scan CMOS
Max. Resolution	Bullet channel: 2560 × 1440 PT channel: 2560 × 1440
Min. Illumination	Bullet channel: Color: 0.0001 Lux @ (F1.0, AGC ON),0 Lux with light; PT channel: Color: 0.0001 Lux @ (F1.0, AGC ON),0 Lux with light;
Shutter Time	1 s to 1/100,000 s
Day & Night	Bullet channel: IR cut filter; PT channel: IR cut filter;
Angle Adjustment	Pan: -170° to 170°,tilt: 0° to 80°
Lens	
Lens Type	Fixed focal lens Bullet channel: 4mm ; PT channel: 2.8mm;
Focal Length & FOV	PT channel, horizontal FOV 105.1°, vertical FOV 55.3°, diagonal FOV 127.6° Bullet channel, horizontal FOV 86.9°, vertical FOV 47.2°, diagonal FOV 102°
Lens Mount	M16
Iris Type	Fixed
Aperture	F1.0
Depth of Field	2.8 mm: 2.1 m to ∞ 4 mm: 1.8 m to ∞
Pixel Density	
O2DCPVS	PT channel: Overview: 75.3 m, Outline: 37.7 m, Discern: 18.8 m, Perceive: 12.1 m, Characterize: 6 m, Validate: 3 m, Scrutinize: 1 m Bullet channel: Overview: 88.4 m, Outline: 44.2 m, Discern: 22.1 m, Perceive: 14.2 m, Characterize: 7.1 m, Validate: 3.5 m, Scrutinize: 1.2 m
Illuminator	
Supplement Light Type	IR,White Light
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	Bullet channel & PT channel: 50 Hz: 20 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	Bullet channel & PT channel: 50 Hz: 20 fps (768 × 432, 640 × 360) 60 Hz: 20 fps (768 × 432, 640 × 360)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264,, Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile,Main Profile,High Profile

H.265 Type	Main Profile
Bit Rate Control	CBR,VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream
Target Cropping	NA
Guanlan AI Encoding	Yes
Audio	
Audio Type	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC-LC
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)
Audio Sampling Rate	8 kHz/16 kHz
Environment Noise Filtering	Yes
Network	
Protocols	TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, RTCP, NTP, IPv4, IPv6, IGMP, UDP, QoS, FTP, SMTP,HTTPs
Simultaneous Live View	Up to 20 channels
API	ONVIF (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Security	Password protection, complicated password, watermark, basic and digest authentication for HTTP, WSSE and digest authentication for ONVIF, security audit log, host authentication (MAC address)
Client	iVMS-4200,Hik-Connect
Web Browser	Plug-in required live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+, Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+
Image	
Image Parameters Switch	Yes
Image Settings	Saturation,brightness,contrast,sharpness,gain,white balance,adjustable by client software or web browser
Day/Night Switch	Day,Night,Auto,Schedule
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Image Enhancement	BLC,HLC,3D DNR
Privacy Mask	4 programmable quadrilateral privacy masks
Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Built-in Microphone	Yes,1 built-in microphone
Built-in Speaker	NA
Audio	NA
Alarm	NA
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human, vehicle and animal)),exception,video tampering alarm

Smart Event	NA
Linkage	Notify surveillance center,send email,trigger capture -F: audible warning /SX: Strobe Light Flashing (White/Red-Blue, configurable)
Deep Learning Function	
Perimeter Protection	NA
Face Capture	NA
General	
Power	12 VDC ± 25%, 1.5 A, max. 18 W, PoE: IEEE 802.3at, Class 4, max. 21.6 W
Material	Front cover: Plastic, body: Plastic, bracket: Plastic
Dimension	128.7 mm × 159.1 mm × 175.2 mm (5.07" × 6.26" × 6.90")
Package Dimension	213 mm × 165 mm × 214 mm (8.39" × 6.50" × 8.43")
Weight	Approx. 840 g (1.85 lb.)
With Package Weight	Approx. 1120 g (2.47 lb.)
Storage Conditions	-30 °C to 50 °C (-22 °F to 122 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 50 °C (-22 °F to 122 °F). Humidity 95% or less (non-condensing)
Language	English, Russian, Ukrainian, Arabic, Spanish, French, Portuguese, Turkish, Polish, German
General Function	Heartbeat,mirror,flash log,password reset via email,password protection,anti-banding
Flashing Light	NA
Approval	
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021
Safety	CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11:2017
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP66: IEC 60529-2013

▪ Dimension


128.7 [5.07]
159.1 [6.26]
175.2 [6.90]
47 [1.85]
24.4 [0.96]
Unit: mm[inch]

See Far, Go Further

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