# DS-2CD2087G3-LI(2U)Y
# 8 MP Smart Hybrid Light Fixed Bullet Network Camera

ColorVu 3.0

Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses, high performance sensors and friendly lighting. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

- HikAI-ISP for excellent noise reduction effect

- 24/7 colorful imaging via ColorVu technology

- Scene-adaptive WDR

- Focus on Person and Vehicle classification based on deep learning

- Built-in arrayed dual-microphone for real-time high quality audio security

- Anti-corrosion design, providing reliability and longevity compared to standard (NEMA4X)

- Smart Hybrid Light: Integrates IR and White lights, 3 supplemental lighting modes

- Water and dust resistant (IP67)

## ▪ Specification

| Camera | |
|---|---|
| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Max. Resolution | 3840 × 2160 |
| Min. Illumination | Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light |
| Shutter Time | 1 s to 1/100,000 s |
| Day & Night | IR cut filter |
| Angle Adjustment | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360° |
| **Lens** | |
| Lens Type | Fixed focal lens, 2.8 and 4 mm optional |
| Focal Length & FOV | 2.8 mm, horizontal FOV 108.8°, vertical FOV 56.4°, diagonal FOV 134.3° |
| | 4 mm, horizontal FOV 93.3°, vertical FOV 47.2°, diagonal FOV 114.2° |
| Lens Mount | M16 |
| Iris Type | Fixed |
| Aperture | F1.0 |
| Depth of Field | 2.8 mm: 3.3 m to ∞ |
| | 4 mm: 3.8 m to ∞ |
| **DORI** | |
| DORI | 2.8 mm: D: 89 m, O: 35 m, R: 17 m, I: 8 m |
| | 4 mm: D: 109 m, O: 43 m, R: 21 m, I: 10 m |
| **Illuminator** | |
| Supplement Light Type | White Light, IR |
| Supplement Light Range | Up to 40 m |
| Smart Supplement Light | Yes |
| IR Wavelength | 850 nm |
| **Video** | |
| Main Stream | 50 Hz: |
| | 25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) |
| | 60 Hz: |
| | 30 fps (3840 × 2160，3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) |
| | 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) |
| Third Stream | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) |
| | 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) |
| | *Third stream is supported under certain settings. |
| Video Compression | Main stream: H.265/H.264/H.264+/H.265+, |
| | Sub-stream: H.265/H.264/MJPEG, |
| | Third stream: H.265/H.264, |
| | *Third stream is supported under certain settings. |
| 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 |

| Audio | |
|---|---|
| Audio Type | -2U: Mono sound |
| Audio Bit Rate | -2U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/16 Kbps to 64 Kbps (AAC-LC)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3) |
| Audio Compression | -2U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC |
| Environment Noise Filtering | -2U: Yes |
| Audio Sampling Rate | -2U: 8 kHz/16 kHz/32 kHz/48 kHz |
| **Network** | |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP |
| Simultaneous Live View | Up to 6 channels |
| API | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP |
| User/Host | Up to 32 users<br>3 user levels: administrator, operator, and user |
| Security | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.1/1.2/1.3, host authentication (MAC address) |
| Network Storage | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR) |
| Client | iVMS-4200, Hik-Connect, Hik-Central |
| Web Browser | Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+,<br>Local service: Chrome 80+, Firefox 80+, Edge 89+ |
| **Image** | |
| Image Parameters Switch | Yes |
| Image Settings | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser |
| Day/Night Switch | Day, Night, Auto, Schedule |
| Image Enhancement | BLC, HLC, 3D DNR, Distortion Correction, Defog |
| SNR | ≥ 52 dB |
| Wide Dynamic Range (WDR) | 130 dB |
| Image Stabilization | EIS |
| Privacy Mask | 4 programmable polygon 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 |
| Audio | Built-in Microphone:<br>-2U: Arrayed dual-microphone |
| Reset Key | Yes |
| **Event** | |
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception |
| Linkage | Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email |
| Smart Event | Scene change detection |

| Deep Learning Function | |
|---|---|
| Face Capture | Yes |
| Perimeter Protection | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle) |

| General | |
|---|---|
| Power | 12 VDC ± 25%, 0.45 A, max. 5.4 W, Ø5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 7 W |
| Material | Front cover: metal, body: metal, bracket: metal |
| Dimension | Ø74.4 mm × 176.3 mm (Ø2.93" × 6.94") |
| Package Dimension | 234 mm × 120 mm × 117 mm (9.2" × 4.7" × 4.6") |
| Weight | Approx. 530 g (1.2 lb.) |
| With Package Weight | Approx. 810 g (1.8 lb.) |
| Storage Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Startup and Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| General Function | Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding |
| Language | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian |

| 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,<br>RCM: AS/NZS CISPR 32: 2015,<br>IC: ICES-003: Issue 7,<br>KC: KN32: 2015, KN35: 2015 |
| Safety | UL: UL 62368-1,<br>CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017 |
| Environment | CE-RoHS: 2011/65/EU |
| Protection | IP67: IEC 60529-2013 |
| Anti-Corrosion Protection | NEMA 4X (NEMA 250-2018) |

## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has MODERATE PROTECTION

| Level | Description |
|---|---|
| Top-level protection | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more. |
| Moderate protection | Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific |

| | anti-corrosion protection is needed. |
|---|---|

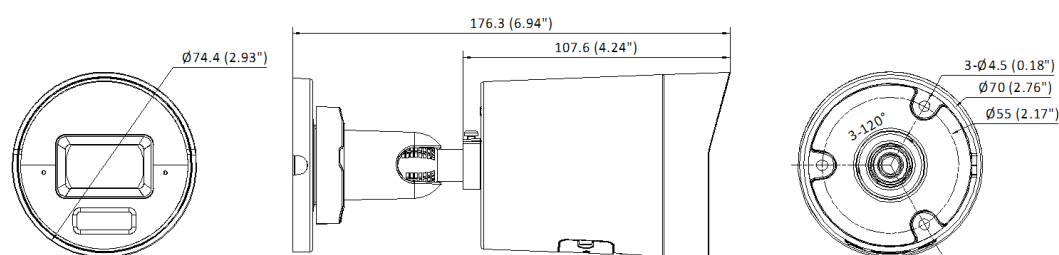## ▪ Available Model

DS-2CD2087G3-LI2UY(2.8mm)

DS-2CD2087G3-LI2UY(4mm)

DS-2CD2087G3-LI2UY(2.8mm)(Black)

DS-2CD2087G3-LIY(2.8mm)
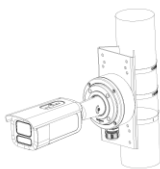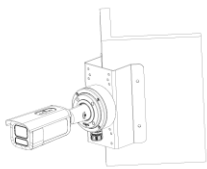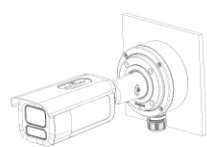
DS-2CD2087G3-LIY(4mm)

## ▪ Dimension



Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1275ZJ-SUS | DS-1276ZJ-SUS | DS-1280ZJ-XS |
|---|---|---|
| | | |

- **Installation Methods**

| Vertical Pole Mounting DS-1275ZJ-SUS+DS-1280ZJ-XS | Corner Mounting DS-1276ZJ-SUS+DS-1280ZJ-XS | Junction Box DS-1280ZJ-XS |
|---|---|---|
|  |  |  |

See Far, Go Further

**HIKVISION**®