

DS-2CD2086G2H-IU**8 MP Powered by Darkfighter Fixed Mini Bullet Network Camera**

Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- High quality imaging with 8 MP resolution
- Excellent low-light performance via powered-by-DarkFighter technology
- Clear imaging against strong backlight due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle classification based on deep learning
- -U: Built-in microphone for real-time audio security
- Water and dust resistant (IP67)

▪ Specification

| Model | | DS-2CD2086G2H-IU |
|-------------|------------------------|--|
| Camera | Image Sensor | 1/1.8" Progressive Scan CMOS |
| | Max. Resolution | 3840 × 2160 |
| | Min. Illumination | Color: 0.0008 Lux @ (F1.0, AGC ON), B/W: 0 Lux with IR |
| | Shutter Time | 1/3 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 105.1°, vertical FOV 54.8°, diagonal FOV 128.2° 4 mm, horizontal FOV 90.0°, vertical FOV 45.8°, diagonal FOV 109.4° |
| | 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 | 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: 24 fps (3840 × 2160) 30 fps (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 |

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| | 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 and sub-stream |
| Audio | Audio Compression | -U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC |
| | Audio Bit Rate | -U: 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 Sampling Rate | -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz |
| | Environment Noise Filtering | -U: Yes |
| 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 | Open Network Video Interface (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, 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 required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Local service:Chrome 57.0+, Firefox 52.0+, 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 |
| | SNR | ≥ 52 dB |
| | Wide Dynamic Range (WDR) | 120 dB |

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|------------------------|----------------------------------|---|
| | 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 |
| | Built-in Microphone | -U: Yes |
| | 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, send email, trigger recording, trigger capture |
| | Smart Event | Scene change detection |
| Deep Learning Function | Face Capture | Yes |
| | Perimeter Protection | Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) |
| General | Power | 12 VDC ± 25%, 0.58 A, max. 7 W, Ø5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 8.5 W |
| | Material | Front cover: metal, body: metal, bracket: Metal |
| | Dimension | Ø74.4 mm × 179.2 mm (Ø2.9" × 7.1") |
| | Package Dimension | 234 mm × 120 mm × 117 mm (9.2" × 4.7" × 4.6") |
| | Weight | Approx. 525 g (1.2 lb.) |
| | With Package Weight | Approx. 750 g (1.7 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, 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, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011+A1: 2014, IC: ICES-003: Issue 7, RCM: AS/NZS CISPR 32: 2015 |
| | 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 | IP67:IEC 60529-2013 |

▪ 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 NO SPECIFIC 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

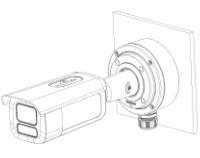
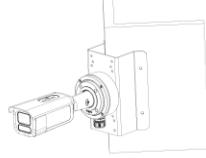
DS-2CD2086G2H-IU(2.8mm)

DS-2CD2086G2H-IU(4mm)

DS-2CD2086G2H-IU(4mm)(BK BLACK)

▪ Accessory

▪ Optional

| DS-1280ZJ-XS Junction box | DS-1275ZJ-SUS Vertical pole mount | DS-1276ZJ-SUS Corner mount |
|---|---|---|
|  |  |  |
|  |  |  |

See Far, Go Further



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