

## DS-2CD2086G2-I(U) 8 MP IR Fixed Bullet Network Camera



- 1/1.8" Progressive Scan CMOS
- 3840 × 2160 @ 20fps
- 2.8/4/6 mm fixed lens
- 120dB WDR
- Powered by DarkFighter
- H.265+, H.265, H.264+, H.264
- Built-in micro SD/SDHC/SDXC card slot, up to 256 GB
- -I model: IP67, -IU model: IP66
- Built-in microphone (Optional)
- **Human and vehicle classification alarm** based on deep learning.

### AcuSense

Powered by deep learning algorithms, Hikvision AcuSense technology brings human or vehicle target classification alarms to front- and back-end devices. The system can greatly reduce false alarms generated by targets other than humans or vehicles, vastly improving alarm efficiency and effectiveness.



## Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1/3s to 1/100,000s
Slow Shutter	Yes
Wide Dynamic Range	120dB
Day & Night	IR Cut Filter
Angle Adjustment	Pan: 0 to 360°, tilt: 0 to 90°, rotation: 0 to 360°
Power-off Memory	Yes
Lens	
Lens Type & FOV	2.8 mm, horizontal FOV: 102°, vertical FOV: 55°, diagonal FOV: 120° 4 mm, horizontal FOV: 78°, vertical FOV: 43°, diagonal FOV: 92° 6 mm, horizontal FOV: 50°, vertical FOV: 27°, diagonal FOV: 59°
Aperture	F1.6
Lens Mount	M16
Illuminator	
IR Range	40 m
Wavelength	850 nm
Smart Supplement Light	Yes
Video	
Max. Resolution	3840 × 2160
Main Stream	50Hz: 20fps (3840 × 2160, 3072 × 1728), 25fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 20fps (3840 × 2160, 3072 × 1728), 30fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50Hz: 25fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240) 60Hz: 30fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240)
Video Compression	Main stream: H.265+/H.264+/H.265/H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Stream Type	Main stream/sub-stream/third stream
Scalable Video Coding (SVC)	Yes
Region of Interest (ROI)	1 fixed region for each stream
* When the main stream resolution is 3840 × 2160, max frame rate is 20 fps for all streams.	
Audio(-U)	
Environment Noise Filtering	Yes

Audio Sampling Rate	8 kHz,16 kHz,32 kHz,44.1 kHz,48 kHz
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/8Kbps-320Kbps(MP3)
Audio Type	mono sound
<b>Network</b>	
Simultaneous Live View	Up to 6 channels
API	ONVIF (PROFILE S, PROFILE G), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
Smooth Streaming	Yes
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS 1.2
Network Storage	MicroSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE8+, Chrome41.0-44, Firefox30.0-51, Safari8.0-11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+
<b>Image</b>	
Day/Night Switch	Day/Night/Auto/Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
<b>Interface</b>	
Audio(-U)	Built-in microphone
On-board Storage	Built-in micro SD, up to 256 GB
Hardware Reset	Yes
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
<b>Smart Feature-Set</b>	
Perimeter Protection	line crossing detection, intrusion detection, region entrance detection, region exiting detection (Human&Vehicle classification)
Face Capture	Yes
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), scene change detection
<b>General</b>	
Web Client Language	32 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)

General Function	Mirror, password protection, privacy mask, watermark, IP address filter, one-key reset, anti-flicker, three streams, heartbeat
Software Reset	Yes
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email
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)
Power Supply	12 VDC ± 25%; PoE: (802.3af, class 3)
Power Consumption and Current	12 VDC, 0.5 A, max. 6 W PoE: (802.3af, 36V to 57V), 0.2 A to 0.13 A, max. 7.2 W
Power Interface	Φ5.5 mm coaxial power plug
Material	Metal
Camera Dimension	Φ70 × 161.7 mm (2.76" × 6.37")
Package Dimension	216 × 121 × 118 mm (8.5" × 4.8" × 4.6")
Camera Weight	500 g (1.1 lb.)
With Package Weight	710 g (1.6 lb.)
<b>Approval</b>	
Protection	-I model: Ingress protection: IP67 (IEC 60529-2013) -IU model: Ingress protection: IP66 (IEC 60529-2013)
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

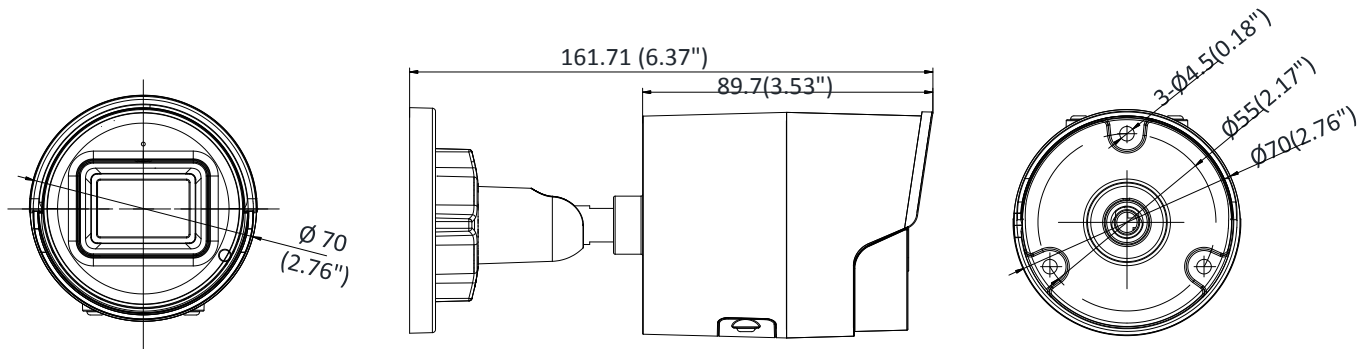
\* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

## Available Model

DS-2CD2086G2-I (2.8/4/6 mm)

DS-2CD2086G2-IU (2.8/4/6 mm)

## Dimension



Unit: mm(Inch)

## Accessory



**DS-1280ZJ-XS  
Junction Box**

Distributed by



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