

## DS-2CD2087G2-L(U) 8 MP ColorVu Fixed Bullet Network Camera

# ColorVu



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.

- High quality imaging with 8 MP resolution
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 130 dB WDR technology
- Focus on human and vehicle classification based on deep learning
- 24/7 colorful imaging
- Built-in microphone for real-time audio security (-U)



## ▪ Specification

Camera	
Image Sensor	1/1.2" Progressive Scan CMOS
Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with Light
Max. Resolution	3840 × 2160
Shutter Speed	1/3 s to 1/100,000 s
P/N	P/N
Wide Dynamic Range	130 dB
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type & FOV	2.8 mm: horizontal FOV 102°, vertical FOV 52°, diagonal FOV 124° 4 mm: horizontal FOV 88°, vertical FOV 47°, diagonal FOV 104° 6 mm: horizontal FOV 54°, vertical FOV 30°, diagonal FOV 62°
Depth of Focus	2.8 mm: 4.5 m to ∞ 4 mm: 7 m to ∞ 6 mm: 13 m to ∞
Aperture	F1.0
DORI	
DORI	2.8 mm, D: 96 m, O: 38 m, R: 19 m, I: 10 m 4 mm, D: 102 m, O: 41 m, R: 21 m, I: 11 m 6 mm, D: 167 m, O: 66 m, R: 33 m, I: 16 m
Illuminator	
White Light Range	40 m
Smart Supplement Light	Yes
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)
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
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)	Yes
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Audio	
Audio Compression	-U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC

Audio Bit Rate	-U: 64 Kbps (G.711 ulaw)/64 Kbps(G.711 alaw)/16 Kbps(G.722.1)/16 Kbps(G.726)/32 to 192 Kbps(MP2L2)/8 to 320 Kbps(MP3)/16 to 64Kbps(AAC-LC)
Audio Sampling Rate	-U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Environment Noise Filtering	-U: Yes
<b>Network</b>	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
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+
<b>Image</b>	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
<b>Interface</b>	
Built-in Microphone	-U: Yes
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC/TF card, up to 512 GB
Hardware Reset	Yes
Communication Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
<b>Event</b>	
Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Smart Event	Scene change detection
Linkage	Upload to FTP/memory card/NAS, notify surveillance center, trigger record, trigger capture, send email
<b>Deep Learning Function</b>	
Face Capture	Yes
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Supports human and vehicle targets classification
<b>General</b>	
Power	12 VDC $\pm$ 25%, 0.5 A, max. 6 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection PoE: (802.3af, Class 3, 36 V to 57 V), 0.25 A to 0.15 A, max. 7.5 W

Web Client 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
General Function	Anti-flicker, heartbeat, password reset via e-mail, pixel counter
Software Reset	Yes
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)
Material	Front cover: metal, back cover: metal
Camera Dimension	78.8 × 78.6 × 215.2 mm (3.1" × 3.1" × 8.5")
Package Dimension	315 × 137 × 141 mm (12.4" × 5.4" × 5.6")
Camera Weight	Approx. 850 g (1.9 lb.)
With Package Weight	Approx. 1270 g (2.8 lb.)
<b>Approval</b>	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 7)
Safety	UL (UL 62368-1); 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)

## ▪ Available Model

DS-2CD2087G2-LU (2.8/4/6 mm)

DS-2CD2087G2-L (2.8/4/6 mm)

## ▪ Typical Application

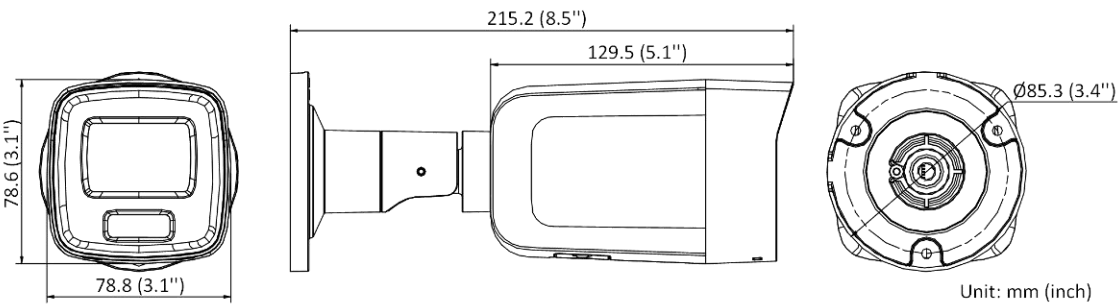
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

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




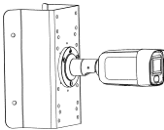
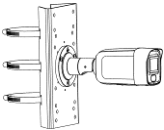
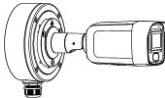
	demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

▪ Dimension



▪ Accessory

▪ Optional

DS-1276ZJ-SUS Corner Mount	DS-1275ZJ-SUS Vertical Pole Mount	DS-1280ZJ-S Junction Box
		
		

Distributed by



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