

DS-2CD2047G2-L(U) 4 MP ColorVu Fixed Bullet Network Camera

# ColorVu



Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses and high performance sensors. 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 4 MP resolution
- Efficient H.265+ compression technology
- Clear imaging against strong backlight due to 130 dB WDR technology

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- Built-in microphone for real-time audio security(-U)
- Focus on human and vehicle targets classification based on deep learning
- 24/7 colorful imaging
- Water and dust resistant (IP67)





## Specification

Camera				
Image Sensor	1/1.8" Progressive Scan CMOS			
Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light			
Shutter Speed	1/3 s to 1/100,000 s			
Slow Shutter	Yes			
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	Fixed focal lens, 2.8, 4, and 6 mm optional			
Iris Type	Fixed			
	2.8 mm, horizontal FOV 112°, vertical FOV 61°, diagonal FOV 134°			
Lens Type & FOV	4 mm, horizontal FOV 95°, vertical FOV 51°, diagonal FOV 115°			
	6 mm, horizontal FOV 58°, vertical FOV 31°, diagonal FOV 69°			
	2.8 mm, 2.5 m to ∞			
Depth of Focus	4 mm, 3.5 m to ∞			
	6 mm, 7.5 m to ∞			
Aperture	F1.0			
Lens Mount	M16			
DORI				
	2.8 mm, D: 58 m, O: 23 m, R: 11 m, I: 2 m			
DORI	4 mm, D: 77 m, O: 30 m, R: 15 m, I: 7 m			
	6 mm, D: 115 m, O: 45 m, R: 23 m, I: 11 m			
Illuminator				
Supplement Light Type	White Light			
White Light Range	40 m			
Smart Supplement Light	Yes			
Video				
Max. Resolution	2688 × 1520			
Main Chucom	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)			
Main Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)			
	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)			
Sub Stream	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)			
	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)			
Third Stream	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)			
	*Third stream is supported under certain settings.			
	Main stream: H.265/H.264/H.265+/H.264+			
Video Comprossion	Sub-stream: H.265/H.264/MJPEG			
Video Compression	Third stream: H.265/H.264			
	*Third stream is supported under certain settings.			
Video Bit Rate	32 Kbps to 8 Mbps			
Н.264 Туре	Baseline Profile/Main Profile/High Profile			
Н.265 Туре	Main Profile			
H.264+	Main stream supports			



H.265+	Main stream supports		
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			
Environment Noise Filtering	-U: Yes		
Audio Sampling Rate	-U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz		
Audio Compression	-U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC		
Addio compression	-U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps		
Audio Bit Rate	(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)		
Network			
Simultaneous Live View	Up to 6 channels		
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK		
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,		
Protocols	IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket,		
11000003	WebSockets		
User/Host	Up to 32 users. 3 user levels: administrator, operator and user		
0301711031	Password protection, complicated password, HTTPS encryption, IP address filter,		
Security	Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE		
Security	and digest authentication for Open Network Video Interface		
	MicroSD/SDHC/SDXC card (512 GB) local storage, and NAS (NFS, SMB/CIFS), auto		
	network replenishment (ANR)		
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health		
	detection are supported.		
Client			
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+		
Imaga	Local service. Chrome 57.0+, Filelox 52.0+, Luge 85+		
Image SNR	≥ 52 dB		
Day/Night Switch	Auto, Schedule		
Image Enhancement	BLC, HLC, 3D DNR		
Image Parameters Switch	Yes		
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance		
	adjustable by client software or web browser		
Interface			
Built-in Microphone	-U: Yes		
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB		
Hardware Reset	Yes		
Communication Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port		
Event			
Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm,		
	exception		
Smart Event	Scene change detection		



Deep Learning Function			
Face Capture	Yes		
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection		
General			
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email		
Firmware Version	V5.5.112		
Web Client Language	<ul> <li>33 languages</li> <li>English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,</li> <li>French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian,</li> <li>Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai,</li> <li>Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian</li> </ul>		
General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, 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)		
Power Supply	12 VDC ± 25% PoE: 802.3af, Class 3		
Power Consumption and	12 VDC, 0.5 A, max. 6 W		
Current	PoE (802.3af, 36 V to 57 V), 0.25 A to 0.15 A, max. 7.5 W		
Power Interface	Ø5.5 mm coaxial power plug		
Camera Dimension	215.2 mm × 78.8 mm × 78.6 mm (8.5" × 3.1" × 3.1")		
Package Dimension	315 mm × 137 mm × 141 mm (12.4" × 5.4" × 5.6")		
Camera Weight	Approx. 695 g (1.5 lb.)		
With Package Weight	Approx. 1090 g (2.4 lb.)		
Approval			
EMC	FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: +A1: 2014):		
Safety	UL (UL 60950-1); CB (IEC 60950-1: 2005 + Am 1: 2009 + Am 2: 2013, IEC 62368-1: 2014); CE-LVD (EN 60950-1: 2005 + Am 1: 2009 + Am 2: 2013, IEC 62368-1: 2014); LOA (IEC/EN 60950-1)		
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)		
Protection	IP67 (IEC 60529-2013)		

### Available Model

DS-2CD2047G2-LU (2.8/4/6 mm) DS-2CD2047G2-L (2.8/4/6 mm)





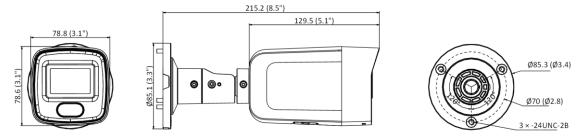
#### Typical Application

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



Unit: mm (inch)

#### Accessory

#### Optional

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



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