

**DS-2CD3046G2H-LI(U)**

4 MP Smart hybrid light with Darkfighter S Fixed Mini Bullet Network Camera



Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection.

In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 60 MB system memory, 400 MB smart RAM, and 2 GB eMMC storage for sharing resources
- Smart Dual-Light: advanced technology with long range
- Clear imaging against strong back light due to 130 dB WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle classification based on deep learning
- High quality imaging with 4 MP resolution
- -U: Built-in microphone for real-time audio security
- Water and dust resistant (IP67)

## ▪ Specification

Model		DS-2CD3046G2H-LI(U)
Camera	Image Sensor	1/3" Progressive Scan CMOS
	Max. Resolution	2688 × 1520
	Min. Illumination	Color: 0.001 Lux @ (F1.0, AGC ON), 0 Lux with light
	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 100.2°, vertical FOV 54.7°, diagonal FOV 119.7° 4 mm, horizontal FOV 81.1°, vertical FOV 44.7°, diagonal FOV 94.6°
	Lens Mount	M12
	Iris Type	Fixed
	Aperture	F1.0
	Depth of Field	2.8 mm: 1.9 m to ∞ 4 mm: 2.5 m to ∞
DORI	DORI	2.8mm: D: 63 m, O: 25 m, R: 12 m, I: 6 m 4mm: D: 78 m, O: 31 m, R: 15 m, I: 7 m
Illuminator	Supplement Light Type	IR, White Light
	Supplement Light Range	Up to 40 m
	Smart Supplement Light	Yes
	IR Wavelength	850 nm
HEOP	Open Resources	Memory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GB
	Computing Power	1.5 TOPS
	Open Capability	HEOP 2.0 OpendevSDK
	Deep Learning Structure	Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX
	Programming Language	C, C++
Video	Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (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)

	Fourth Stream	60 Hz: 10 fps (1920×1080, 1280×720, 640×480, 640×360) *The third stream is supported under certain settings.
	Video Compression	50 Hz: 10 fps (1280×720, 640×480, 640×360) 60 Hz: 10 fps (1280×720, 640×480, 640×360) *The fourth stream is supported under certain settings.
	Video Bit Rate	Main stream: H.265/H.264/H.264+/H.265+, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG, *The third stream and the fourth stream are supported under certain settings.
	H.264 Type	32 Kbps to 8 Mbps
	H.265 Type	Baseline Profile, Main Profile, High Profile
	Bit Rate Control	Main Profile
	Scalable Video Coding (SVC)	CBR, VBR
	Region of Interest (ROI)	H.264 and H.265 encoding
	Target Cropping	5 fixed regions for main stream and sub-stream
	Audio Compression	Yes
	Audio Bit Rate	-U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Audio	Audio Sampling Rate	-U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)
	Environment Noise Filtering	-U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
	Protocols	-U: Yes
	Simultaneous Live View	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, SFTP, ARP, SNMP, WebSocket, WebSockets, SRTP
Network	API	Up to 6 channels
	User/Host	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
	Security	Up to 32 users 3 user levels: administrator, operator, and user
	Network Storage	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)
	Client	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
	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, Defog
	SNR	≥ 52 dB
	Wide Dynamic Range (WDR)	130 dB
	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	Unattended baggage detection, object removal detection, scene change detection, audio exception detection, defocus detection
Deep Learning Function	Face Capture	Yes
	People Counting	Yes
	Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, Support alarm triggered by specified target types (human and vehicle)
General	Power	12 VDC ± 25%, 0.7 A, max. 8.5 W, Ø5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 10 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,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, 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, BIS: IS 13252 (Part 1): 2010/IEC 60950-1:2005, LOA: IEC/EN 60950-1
	Environment	CE-RoHS: 2011/65/EU
	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.

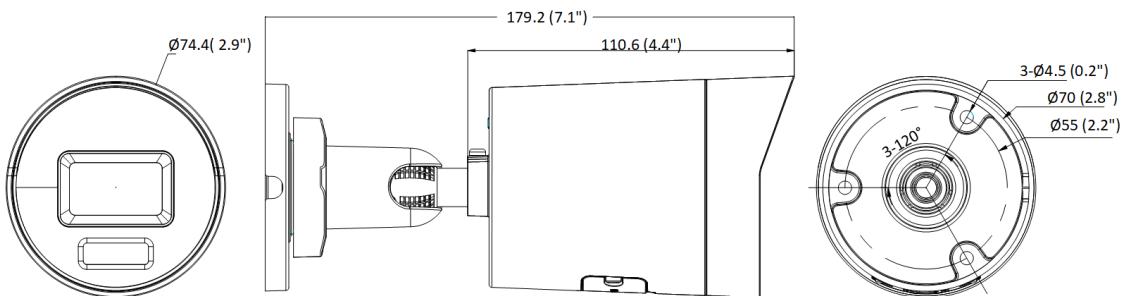
## ▪ Available Model

DS-2CD3046G2H-LI(2.8mm)

DS-2CD3046G2H-LIU(2.8mm)

DS-2CD3046G2H-LIU(4mm)

DS-2CD3046G2H-LI(4mm)

**▪ Dimension**

Unit: mm (inch)

**▪ Accessory****▪ Optional**

<b>DS-1275ZJ-SUS</b> <b>Vertical pole mount</b>	<b>DS-1276ZJ-SUS</b> <b>Corner mount</b>	<b>DS-1280ZJ-XS</b> <b>Junction box</b>

# See Far, Go Further



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