

DS-2CD2046G2H-I(U) 4 MP AcuSense Powered-by-DarkFighter Fixed Bullet Network Camera

AcuSense

Powered by
DarkFighter



HIKVISION HIKVISION HIKVISION

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



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Specification

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.001 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 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
	2.8 mm: 1.9 m to ∞
Depth of Field	4 mm: 2.5 m to ∞
DORI	
	2.8mm: D: 63 m, O: 25 m, R: 12 m, I: 6 m
DORI	4mm: D: 78 m, O: 31 m, R: 15 m, l: 7 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 40 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Main Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Cub Chursen	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 Compression	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
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 Type	-U: mono sound
Audio Compression	-U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC



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 (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC) -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz -U: Yes 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, ARP, WebSocket, WebSockets Up to 6 channels Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK Up to 32 users. 3 user levels: administrator, operator and user 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 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 Plug-in required live view: IE 10, IE 11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+
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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+
Yes
Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Day, Night, Auto, Schedule
120 dB
≥ 52 dB
BLC, HLC, 3D DNR
4 programmable polygon privacy masks
1 RJ45 10 M/100 M self-adaptive Ethernet port
Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
-U: Yes
Yes
Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Scene change detection
Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email
Yes
Line crossing, intrusion, region entrance, region exiting,



General	
Power	12 VDC ± 25%, 0.45 A, max. 5.5 W, Ø5.5 mm coaxial power plug, reverse polarity
	protection,
	PoE: IEEE 802.3af, Class 3, max. 7 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	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Conditions	-50 C to 60 C (-22 F to 140 F). Humidity 55% of less (non-condensing)
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	Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding
Approval	
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC
	61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021
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
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.

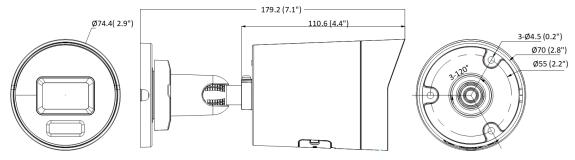
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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-2CD2046G2H-I(2.8mm) DS-2CD2046G2H-I(4mm) DS-2CD2046G2H-IU(2.8mm) DS-2CD2046G2H-IU(4mm) DS-2CD2046G2H-IU(2.8mm)/Black

Dimension



Unit: mm (inch)

Accessory

Optional

Headquarters



