DS-2CD2046G2H-I2U/S(L)(RB)

4 MP AcuSense Strobe Light and Audible Warning Fixed Bullet Network Camera

AcuSense





- High quality imaging with 4 MP resolution
- Clear imaging against strong backlight due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle classification based on deep learning
- Provide real-time security via built-in two-way audio
- Active strobe light and audio alarm to warn intruders off
- Support on-board storage up to 512 GB (SD card slot)
- Water and dust resistant (IP67)

▪ 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
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Day & Night	IR cut filter
Lens	
Focal Length & FOV	2.8 mm, horizontal FOV 100°, vertical FOV 55°, diagonal FOV 120° 4 mm, horizontal FOV 81°, vertical FOV 45°, diagonal FOV 95°
Lens Type	Fixed focal lens, 2.8 and 4 mm optional
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	2.8 mm: D: 63 m, O: 25 m, R: 12 m, I: 6 m 4 mm: D: 78 m, O: 31 m, R: 15 m, I: 7 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 40 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
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) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
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, *Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	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	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC

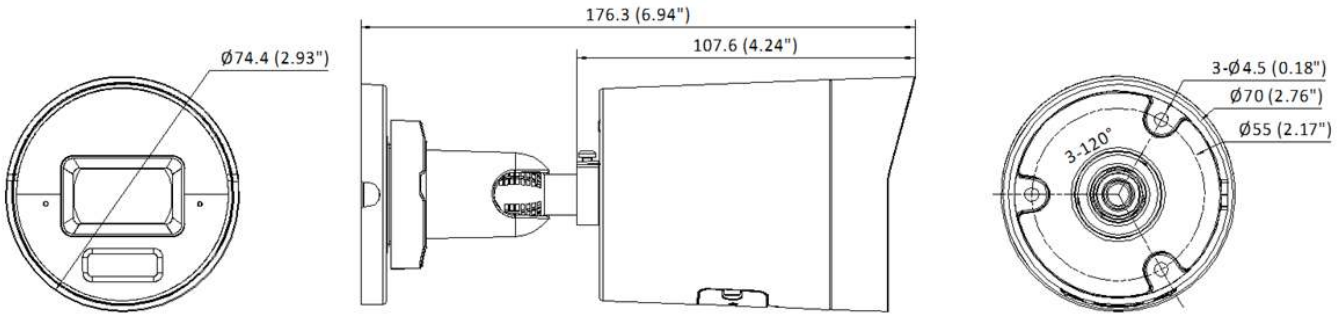
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz
Environment Noise Filtering	Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP
Simultaneous Live View	Up to 6 channels
API	ONVIF (Profile S, Profile T, Profile G), ISAPI, SDK, ISUP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Security	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)
Network Storage	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
Client	iVMS-4200, Hik-Connect
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
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Image Enhancement	BLC, HLC, 3D DNR, Defog
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	Yes, 2 built-in microphones
Built-in Speaker	Max. power consumption: 2 W, max. sound pressure level: 10 cm: 110 dB.
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Smart Event	Scene change detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning, strobe light
Deep Learning Function	
Face Capture	Yes

Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
General	
Power	12 VDC ± 25%, 1 A, max. 6.5 W, Ø5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 16 W
Material	Metal
Dimension	Ø74.4 mm × 176.3 mm (Ø2.93" × 6.94")
Package Dimension	234 mm × 120 mm × 117 mm (9.2" × 4.7" × 4.6")
Weight	Approx. 515 g (1.1 lb.)
With Package Weight	Approx. 840 g (1.9 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)
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
Flashing Light	/SRB models: Red and Blue Light /SL models: White Light
Approval	
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
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, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015
Protection	IP67: IEC 60529-2013

▪ Available Model

DS-2CD2046G2H-I2U/SRB(2.8mm)/Black
DS-2CD2046G2H-I2U/SRB(2.8mm)
DS-2CD2046G2H-I2U/SRB(4mm)
DS-2CD2046G2H-I2U/SL(2.8mm)
DS-2CD2046G2H-I2U/SL(4mm)
DS-2CD2046G2H-I2U/SL(2.8mm)/Black

▪ Dimension



Unit: mm (inch)

▪ Accessory

▪ Optional

DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount	DS-1280ZJ-XS Junction box
		
		

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