

DS-2CD20166G3-IUY/S(L)(RB)**16MP Acusense Strobe Light and Audible Warning Fixed Bullet Network Camera**

Powered by

DarkFighter

AcuSense 3.0



- UHD: Ultra High Definition delivers lifelike immersion
- Active strobe light and audio alarm (/SL: white light, /SRB: red & blue light)
- Excellent low-light performance via Powered by DarkFighter
- Person and vehicle classification based on deep learning
- Clear imaging against strong back light due to 130 dB true WDR technology
- Water and dust resistant (IP67)
- Anti-corrosion design, providing reliability and longevity compared to standard (NEMA 4X)
- Tamper-free & eco-friendly packaging

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	4608 × 3456
Min. Illumination	Color: 0.0008 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
Shutter Time	1 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	
Focal Length & FOV	2.8 mm, horizontal FOV 94.5°, vertical FOV 69.9°, diagonal FOV 123.2° 4 mm, horizontal FOV 73.3°, vertical FOV 54.7°, diagonal FOV 94° 6 mm, horizontal FOV 47.1°, vertical FOV 35°, diagonal FOV 60.5°
Lens Mount	M16
Iris Type	Fixed
Aperture	F1.6
Depth of Field	2.8 mm: 2.9 m to ∞ 4 mm: 3.5 m to ∞ 6 mm: 8.3 m to ∞
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
DORI	
DORI	2.8 mm: D: 117 m, O: 46 m, R: 23 m, I: 11 m 4 mm: D: 148 m, O: 59 m, R: 29 m, I: 14 m 6 mm: D: 236 m, O: 93 m, R: 47 m, I: 23 m
Illuminator	
Smart Supplement Light	Yes
IR Wavelength	850 nm
Supplement Light Type	IR
Supplement Light Range	Up to 40 m
Video	
Main Stream	50 Hz: 12.5 fps (4608 × 3456) 20 fps (4608 × 2592) 25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 15 fps (4608 × 3456) 20 fps (4608 × 2592) 30 fps (3840 × 2160, 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) *Third stream is supported under certain settings.

Video Compression	Main stream: H.265+/H.265/H.264+/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 24 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
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 G, Profile T), 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)
Web Browser	Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Local service: Chrome 80+, Firefox 80+, Edge 89+
Client	iVMS-4200, Hik-Connect, Hik-Central
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)	130 dB
SNR	≥ 52 dB
Image Enhancement	BLC, HLC, 3D DNR, Distortion Correction, 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 Speaker	Max. power consumption: 2 W, max. sound pressure level: 10 cm: 110 dB.
Audio	Built-in Microphone: Single-microphone
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 recording, trigger capture, audible warning, strobe light flashing
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	
Package Dimension	234 mm × 120 mm × 117 mm (9.2" × 4.7" × 4.6")
Material	Front cover: Metal, body: Metal, bracket: Metal
Power	12 VDC ± 25%, 1.3 A, max. 15.6 W, Ø5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 19 W
Weight	Approx. 530 g (1.2 lb.)
With Package Weight	Approx. 815 g (1.8 lb.)
Dimension	Ø74.4 mm × 176.3 mm (Ø2.93" × 6.94")
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 model: Red and Blue Light /SL model: White Light
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	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
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)
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 MODERATE 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-2CD20166G3-IUY/SL(2.8mm)

DS-2CD20166G3-IUY/SL(4mm)

DS-2CD20166G3-IUY/SL(6mm)

DS-2CD20166G3-IUY/SRB(2.8mm)

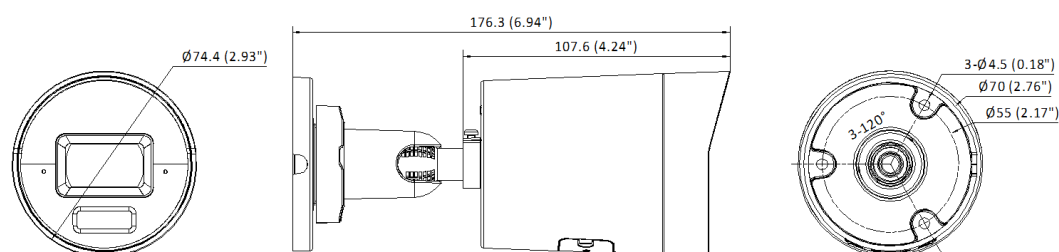
DS-2CD20166G3-IUY/SRB(4mm)

DS-2CD20166G3-IUY/SRB(6mm)

DS-2CD20166G3-IUY/SL(2.8mm)/eFO-STDBLACK

DS-2CD20166G3-IUY/SRB(2.8mm)eFO-STDBLACK

▪ Dimension



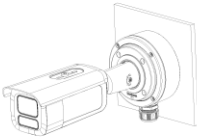
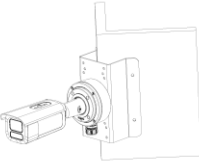
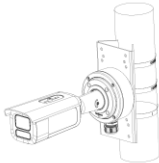
Unit: mm (inch)

▪ **Accessory**

▪ **Optional**

DS-1280ZJ-XS	DS-1276ZJ-SUS	DS-1275ZJ-SUS
		

▪ **Installation Methods**

Junction Box DS-1280ZJ-XS	Corner Mounting DS-1276ZJ-SUS+DS-1280ZJ-XS	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1280ZJ-XS
		

See Far, Go Further



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