DS-2CD2E23G2-U
2 MP AcuSense In-Ceiling Fixed Mini Dome Network Camera

AcuSense





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 2 MP resolution
- Clear imaging against strong backlight due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Built-in microphone for real-time audio security
- Focus on human and vehicle targets classification based on deep learning

▪ Specification

Camera	
Image Sensor	1/2.8” Progressive Scan CMOS
Max. Resolution	1920 × 1080
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON)
Shutter Speed	1/3 s to 1/100,000 s
Angle Adjustment	Tilt: 0° to 75°
Lens	
Lens Type & FOV	2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 128° 4 mm, horizontal FOV 88°, vertical FOV 44°, diagonal FOV 105°
Aperture	F1.6
Lens Mount	M12
DORI	
DORI	2.8 mm: D: 39 m, O: 15 m, R: 8 m, I: 4 m 4 mm: D: 59 m, O: 23 m, R: 12 m, I: 6 m
Video	
Main Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720)
Sub Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (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)
Video Compression	Main stream: H.265/H.264/H.264+/H.265+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264
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)	Yes
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Audio	
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
Audio Bit Rate	64Kbps(G.711ulaw/G.711alaw)/16Kbps(G.722.1)/16Kbps(G.726)/16Kbps-64Kbps(AAC) /32-192Kbps(MP2L2)/8-320Kbps(MP3)
Network	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK , ISUP
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, PPPoE,SNMP
User/Host	Up to 32 users. 3 user levels: administrator, operator and user

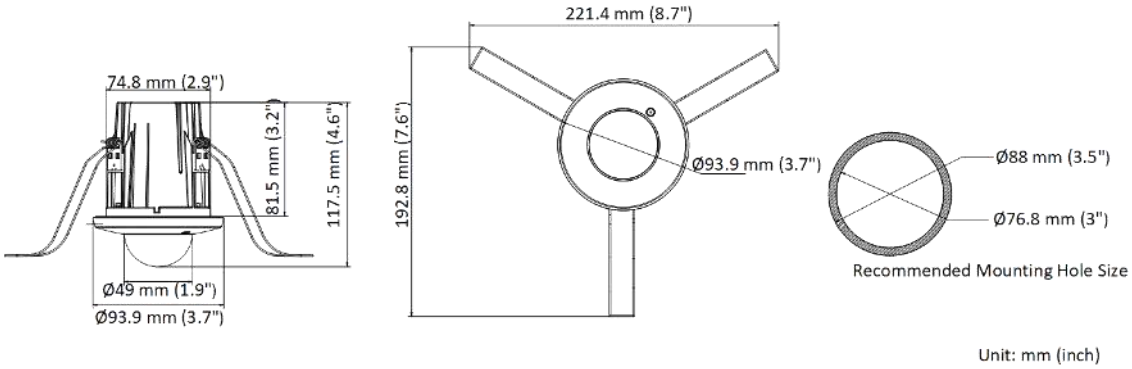
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
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+ Local service: Chrome 57.0+, Firefox 52.0+
Image	
Wide Dynamic Range (WDR)	120 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Interface	
Built-in Microphone	Yes
On-board Storage	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 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
Face Detection	Yes
Deep Learning Function	
Perimeter Protection	Line crossing, intrusion Support alarm triggering by specified target types (human and vehicle)
General	
Power	12 VDC ± 25%, 0.25 A, max. 3 W, two-core terminal block PoE: (802.3af, 36 V to 57 V), Class 3, 0.11 A to 0.07 A, max. 4 W
Linkage Method	Upload to FTP/memory card/NAS, notify surveillance center, trigger recording, trigger capture, send email
Web Client 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	Anti-flicker, heartbeat, password reset via email, pixel counter
Software Reset	Yes
Storage Conditions	-10 °C to 50 °C (14 °F to 122 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-10 °C to 50 °C (14 °F to 122 °F). Humidity 95% or less (non-condensing)
Material	Plastic body
Camera Dimension	Ø93.9 × 117.5 mm (Ø3.7" × 4.6")
Package Dimension	135 × 135 × 183 mm (5.3" × 5.3" × 7.2")

Camera Weight	Approx. 155 g (0.3 lb.)
With Package Weight	Approx. 325 g (0.7 lb.)
Approval	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014);
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)

▪ Available Model

DS-2CD2E23G2-U (2.8/4 mm)

▪ Dimension



Unit: mm (inch)

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