

DS-2CD2H86G2-IZS 8 MP IR Varifocal Turret Network Camera



- 1/1.8" Progressive Scan CMOS
- 3840 × 2160 @ 20fps
- 2.8 to 12 mm varifocal lens
- 120dB WDR
- Powered by DarkFighter

- H.265+, H.265, H.264+, H.264
- Built-in micro SD/SDHC/SDXC card slot, up to 256 GB
- IP66, IK10
- **Human and vehicle classification alarm** based on deep learning.

AcuSense

Empowered by deep learning algorithms, Hikvision AcuSense technology brings human or vehicle target classification alarms to front- and back-end devices. The system can greatly reduce false alarms generated by targets other than humans or vehicles, vastly improving alarm efficiency and effectiveness.



Specifications

Camera	
Image Sensor	1/1.8" progressive scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter Speed	1/3s to 1/100,000s
Slow Shutter	Yes
Wide Dynamic Range	120dB
Day & Night	IR Cut Filter
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Power-off Memory	Yes
Lens	
Focus	Auto
Lens Type & FOV	2.8 to 12 mm, horizontal FOV 108° to 45°, vertical FOV 58° to 25°, diagonal FOV 127° to 52°
Aperture	F1.4
Lens Mount	Φ14
Illuminator	
IR Range	up to 40 m
Wavelength	850 nm
Smart Supplement Light	Yes
Video	
Max. Resolution	3840 × 2160
Main Stream	50Hz: 20fps (3840 × 2160, 3072 × 1728), 25fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 20fps (3840 × 2160, 3072 × 1728), 30fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50Hz: 25fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240) 60Hz: 30fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240)
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
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Stream Type	Main stream/sub-stream/third stream
Scalable Video Coding (SVC)	H.265 and H.264 support
Region of Interest (ROI)	1 fixed region for each stream
* When the main stream resolution is 3840 × 2160, max frame rate is 20 fps for all streams.	
Audio	
Audio Sampling Rate	8 kHz, 16 kHz, 32 kHz, 44.1 kHz, 48 kHz

Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/8Kbps-320Kbps(MP3)
Audio Type	Mono sound
Network	
Simultaneous Live View	Up to 6 channels
API	ONVIF (PROFILE S, PROFILE G), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
Smooth Streaming	Yes
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS 1.2
Network Storage	MicroSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE8+, Chrome41.0-44, Firefox30.0-51, Safari8.0-11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+
Image	
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
Interface	
Alarm	1 input, 1 output (max. 24 VDC, 1 A, 24 VAC, 1 A)
Audio	1 input (line in), 3.5 mm three-connector, 1 output (line out), 3.5 mm three-connector
On-board Storage	Built-in micro SD slot, up to 256 GB
Hardware Reset	Yes
Communication Interface	10M/100M self-adaptive Ethernet port
Smart Feature-Set	
Premier Protection	Intrusion detection, line crossing detection, region entrance detection, region exiting detection (Human&Vehicle classification)
Face Capture	Yes
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), scene change detection
General	
Web Client Language	32 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)

General Function	Mirror, password protection, privacy mask, watermark, IP address filter, one-key reset, anti-flicker, three streams, heartbeat
Software Reset	Yes
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning
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)
Power Supply	12 VDC ± 25%, two-core terminal block; PoE: 802.3af, Class 3
Power Consumption and Current	12 VDC, 0.9 A, max. 10.8 W PoE: (802.3af, 36V to 57V), 0.4 A to 0.2 A, max. 12.9 W
Power Interface	2-core terminal block
Material	Metal
Camera Dimension	Φ153.5 × 133.2 mm (Φ6" × 5.2")
Package Dimension	244 × 174 × 173 mm (9.6" × 6.9" × 6.8")
Camera Weight	1080 g (2.4 lb.)
With Package Weight	1671 g (3.7 lb.)

Approval

Protection	Ingress protection: IP66 (IEC 60529-2013), IK10(IEC 62262:2002)
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

Available Model

DS-2CD2H86G2-IZS (2.8 to 12 mm)

Dimension