

DS-2CD3T86G2-4IS(Y) 8 MP AcuSense IR Fixed Bullet Network Camera









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.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 40 MB system memory, 350 MB smart RAM, and 2 GB eMMC storage for sharing resources
- High quality imaging with 8 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 120 dB true WDR technology
- Focus on human and vehicle targets classification based on deep learning
- Water and dust resistant (IP67)



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Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Day & Night	IR cut filter
Min. Illumination	Color: 0.003 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Angle Adjustment	1/3 s to 1/100,000 s
Shutter Time	1/3 \$ to 1/100,000 \$
Lens	
Focal Length & FOV	2.8 mm, horizontal FOV 108°, vertical FOV 53°, diagonal FOV 133°
	4 mm, horizontal FOV 87°, vertical FOV 46°, diagonal FOV 103°
	6 mm, horizontal FOV 60°, vertical FOV 35°, diagonal FOV 68°
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
DORI	
DORI	2.8 mm, D: 97 m, O: 38 m, R: 19 m, I: 9 m
	4 mm, D: 111 m, O: 44 m, R: 22 m, I: 11 m
	6 mm, D: 140 m, O: 55 m, R: 28 m, I: 14 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 90 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
HEOP	
	Memory: 40 MB,
Open Resources	Smart RAM: 350 MB,
	eMMC: 2 GB
Computing Power	1.5 TOPS
Open Capability	HEOP 2.0 OpendevSDK
Deep Learning Structure	Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX
Programming Language	C, C++
Video	
	50 Hz:
	25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
Main Stream	60 Hz:
	24 fps (3840 × 2160)
	30 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
	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)
	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)
Fourth Stream	60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)



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	Main stream: H.265/H.264/H.264+/H.265+,
Video Compression	Sub-stream: H.265/H.264/MJPEG,
	Third stream: H.265/H.264,
Video Bit Rate	Fourth stream: H.265/H.265/H.264/MJPEG,
	32 Kbps to 16 Mbps Paceline Prefile Main Prefile High Prefile
Н.264 Туре	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)	5 fixed regions for main stream and sub-stream
Target Cropping	Yes
Audio	
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/44.1 kHz/48 kHz
Environment Noise Filtering	Yes
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Network	
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,
Protocols	IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP,
	WebSocket, WebSockets, SRTP
Simultaneous Live View	Up to 6 channels
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
	Up to 32 users
User/Host	3 user levels: administrator, operator, and user
	Password protection, complicated password, HTTPS encryption, 802.1X authentication
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest
Security	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)
	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health
	detection are supported.
Client	iVMS-4200, Hik-Connect, Hik-Central
	Plug-in required live view: IE 10, IE 11,
Web Browser	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
	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,
Image Settings	adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC, HLC, 3D DNR, Defog
SNR	\geq 52 dB
Privacy Mask	4 programmable polygon privacy masks



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Interface	
	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input
Audio	impedance: 4.7 KΩ, interface type: non-equilibrium,
	1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output
	impedance: 100 Ω , interface type: non-equilibrium
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
Alarm	Visual alarm, 2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)
Reset Key	Yes
Power Output	12 VDC, max. 100 mA
Event	
Pasic Event	Motion detection (support alarm triggering by specified target types (human and
Basic Event	vehicle)), video tampering alarm, exception
	Line crossing detection, intrusion detection, region entrance detection, region exiting
Smart Event	detection (support alarm triggered by specified target types (human and vehicle)),
	scene change detection, audio exception detection, defocus detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger
	recording, trigger capture, trigger alarm output, audible warning
Deep Learning Function	
Face Capture	Yes
People Counting	Yes
General	
	12 VDC ± 25%, 1.16 A, max. 14 W, Ø5.5 mm coaxial power plug, reverse polarity
Power	protection,
	PoE: IEEE 802.3at, Class 4, max. 16 W
Material	Metal
Package Dimension	386 mm × 156 mm × 155 mm (15.2" × 6.1" × 6.1")
Weight	Approx. 1240 g (2.4 lb.)
Dimension	325.7 mm × 93.3 mm × 91.2 mm (12.8" × 3.7" × 3.6")
With Package Weight	Approx. 1944 g (3.5 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
General Function	Heartbeat, anti-banding, mirror, flash log, password reset via email, pixel counter
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,
Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,
Lunguage	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
Approval	
	FCC: 47 CFR Part 15, Subpart B,
EMC	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN
	50130-4: 2011 +A1: 2014,
	IC: ICES-003: Issue 7,
	KC: KN32: 2015, KN35: 2015



Safety	UL: UL 62368-1,
	CB: IEC 62368-1: 2014+A11,
	CE-LVD: EN 62368-1: 2014/A11: 2017,
	BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005
Protection	IP67: IEC 60529-2013
Environment	CE-RoHS: 2011/65/EU,
	WEEE: 2012/19/EU,
	Reach: Regulation (EC) No 1907/2006
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)

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.

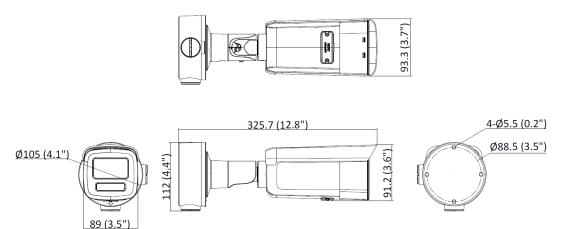
With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

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-2CD3T86G2-4ISY (2.8/4/6 mm) (H) DS-2CD3T86G2-4IS (2.8/4/6 mm) (H)

Dimension



Unit:mm (inch)



Accessory

Included



Optional



*Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y and -AC bracket models).



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