

**DS-2CD3T86G2H-LISUY****8 MP Smart hybrid light with Darkfighter S Fixed Bullet Network Camera**

Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection.

In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- 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
- Smart Dual-Light: advanced technology with long range
- Clear imaging against strong back light due to 130 dB WDR technology
- Efficient H.265+ compression technology
- -U: Built-in microphone for real-time audio security
- Focus on human and vehicle classification based on deep learning
- Water and dust resistant (IP67)

## ▪ Specification

Model		DS-2CD3T86G2H-LISUY
Camera	Image Sensor	1/1.8" Progressive Scan CMOS
	Max. Resolution	3840 × 2160
	Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light
	Shutter Time	1/3 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	Lens Type	Fixed focal lens, 2.8 and 4 mm optional
	Focal Length & FOV	2.8 mm, horizontal FOV 105.1°, vertical FOV 54.8°, diagonal FOV 128.2° 4 mm, horizontal FOV 90.0°, vertical FOV 45.8°, diagonal FOV 109.4°
	Lens Mount	M16
	Iris Type	Fixed
	Aperture	F1.0
	Depth of Field	2.8 mm: 3.3 m to ∞ 4 mm: 3.8 m to ∞
DORI	DORI	2.8mm: D: 89 m, O: 35 m, R: 17 m, I: 8 m 4mm: D: 109 m, O: 43 m, R: 21 m, I: 10 m
Illuminator	Supplement Light Type	IR, White Light
	Supplement Light Range	Up to 60 m
	Smart Supplement Light	Yes
	IR Wavelength	850 nm
HEOP	Open Resources	Memory: 40 MB, 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	Main Stream	50 Hz: 25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 24 fps (3840 × 2160) 30 fps (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)
	Fourth Stream	50 Hz: 10 fps (1280×720, 640×480, 640×360) 60 Hz: 10 fps (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, Fourth stream: H.265/H.264/MJPEG, *Third stream and fourth stream are supported under certain settings.
	Video Bit Rate	32 Kbps to 16 Mbps
	H.264 Type	Baseline Profile, Main Profile, High Profile
Audio	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 Compression	-U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Network	Audio Type	Mono sound
	Audio Bit Rate	-U: 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	-U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
	Environment Noise Filtering	-U: Yes
	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, 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	Open Network Video Interface (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), Together with high-end Hikvision memory card, memory card encryption and health detection

		are supported.
	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+, Edge 89+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
<b>Image</b>	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
	Image Enhancement	BLC,HLC,3D DNR,Defog
	SNR	≥ 52 dB
	Privacy Mask	4 programmable polygon privacy masks
<b>Interface</b>	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	-U: Yes
	Audio	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input 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
	Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)
	Reset Key	Yes
	Power Output	12 VDC, max. 100 mA
<b>Event</b>	Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception
	Smart Event	Unattended baggage detection,object removal detection, scene change detection, audio exception detection
	Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger recording,trigger capture,trigger alarm output,audible warning
<b>Deep Learning Function</b>	Face Capture	Yes
	Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, Support alarm triggered by specified target types (human and vehicle)
<b>General</b>	Power	12 VDC ± 25%, 0.79 A, max. 9.5 W, Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 10.5 W
	Material	Front cover: Metal, body: Metal, bracket: Metal
	Dimension	325.7 mm × 93.3 mm × 91.2 mm (12.8" × 3.7" × 3.6")

	Package Dimension	386 mm × 157 mm × 155 mm (15.2" × 6.1" × 6.1")
	Weight	Approx. 1100 g (2.4 lb.)
	With Package Weight	Approx. 1610 g (3.5 lb.)
	General Function	Heartbeat,anti-banding,mirror,flash log,password reset via email,pixel counter
	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
Approval	EMC	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011+A1: 2014, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7
	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, LOA: IEC/EN 60950-1
	Environment	CE-RoHS: 2011/65/EU
	Protection	IP67: IEC 60529-2013
	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.

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.

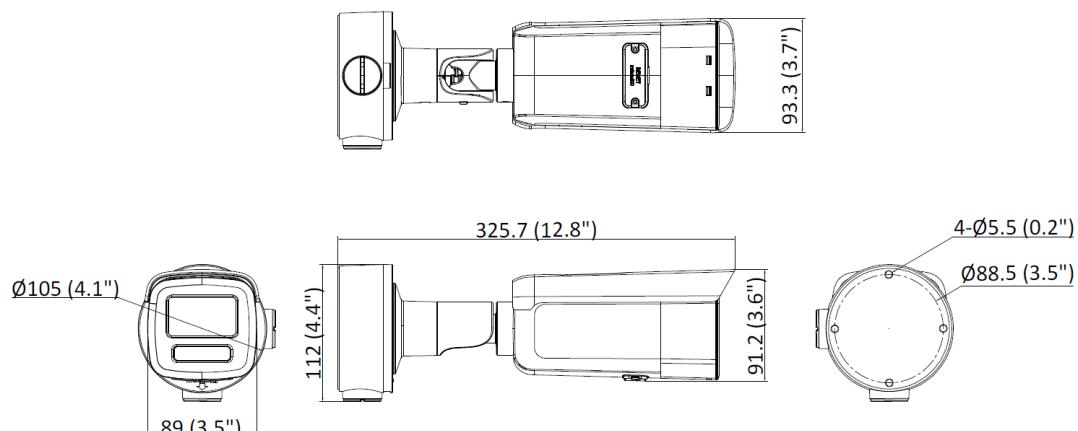
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.
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## ▪ Available Model

DS-2CD3T86G2H-LISUY(2.8mm)

DS-2CD3T86G2H-LISUY(4mm)

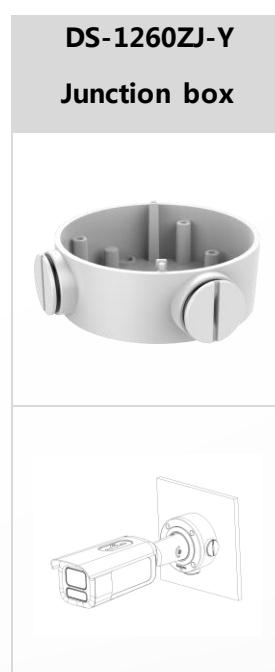
## ▪ Dimension



Unit:mm (inch)

## ▪ Accessory

### ▪ Included



### ▪ Optional

**DS-1275ZJ-S-SUS**

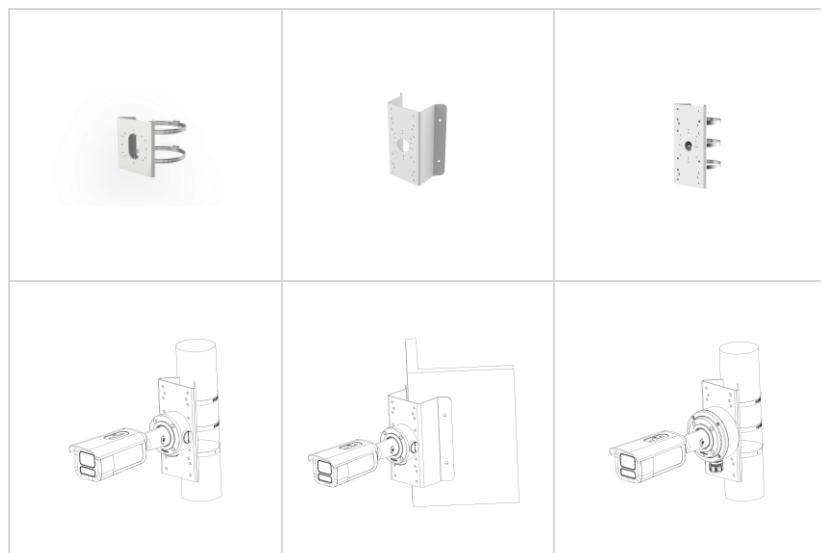
Vertical pole mount

**DS-1276ZJ-SUS**

Corner mount

**DS-1275ZJ-SUS**

Vertical pole mount



# See Far, Go Further



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