

DS-2CD3D86G2T-IZHSU(Y) 8 MP DarkFighter Varifocal Dome Network Camera



















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.

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 defense 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
- Excellent low-light performance with DarkFighter technology
- Focus on human and vehicle targets classification based on deep learning
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 120 dB true WDR technology
- Motorized varifocal lens for easy installation
- Audio and alarm interface available
- Water and dust resistant (IP67) and vandal-resistant (IK10)
- -Y: Anti-Corrosion NEMA 4X: NEMA 250-2014



Specification

Camera					
Image Sensor	1/1.8" Progressive Scan CMOS				
Max. Resolution	3840 × 2160				
Min. Illumination	Color: 0.004 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR				
Shutter Time	1/3 s to 1/100,000 s				
Day & Night	IR cut filter				
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°				
Lens					
Focal Length & FOV	2.8 to 12 mm: horizontal FOV 112° to 41°, vertical FOV 58° to 23°, diagonal FOV 137° t 47° 8 to 32 mm: horizontal FOV 41.8° to 15°, vertical FOV 22.9° to 8.5°, diagonal FOV 48.7' to 17.1°				
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional				
Lens Mount	Integrated				
Iris Type	P-iris				
Aperture	2.8 to 12 mm: F1.4; 8 to 32 mm: F1.7				
•	2.8 to 12 mm: 1.8 m to ∞				
Depth of Field	8 to 32 mm: 9 m to ∞				
DORI					
	2.8 to 12 mm: D: 87 to 216 m, O: 34.5 to 85 m, R: 17.4 to 43.2 m, I: 8.7 to 21.6 m				
DORI	8 to 32 mm: D: 218 to 580 m, O: 86.5 to 230.2 m, R: 43.6 to 116 m, I: 21.8 to 58 m				
Illuminator					
Supplement Light Type	IR				
Supplement Light Range	2.8 to 12 mm: up to 40 m; 8 to 32 mm: up to 50 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					
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)					
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)				



Farmath Character	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)				
Fourth Stream	60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)				
	Main stream: H.265/H.264/H.264+/H.265+,				
Video Compression	Sub-stream: H.265/H.264/MJPEG,				
Video Compression	Third stream: H.265/H.264,				
	Fourth stream: H.265/H.264/MJPEG				
Video Bit Rate	32 Kbps to 16 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)	5 fixed regions for main stream and sub-stream				
Target Cropping	Yes				
e-PTZ	NA				
Audio					
Audio Type	Mono sound				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC				
Audia Dit Data	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps				
Audio Bit Rate	(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				
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				
User/Host	Up to 32 users				
Oser/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				
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,				
mage settings	adjustable by client software or web browser				
Day/Night Switch	Day, Night, Auto, Schedule				



Built-in Microphone Yes 1 input (line in), max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, it type: non-equilibrium 1 output (line out), max. output amplitude: 3.3 Vpp, output impedance: 10 interface type: non-equilibrium 2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A) Reset Key Power Output 12 VDC, max. 100 mA Event Motion detection (support alarm triggering by specified target types (humivehicle)), video tampering alarm, exception Smart Event Scene change detection, audio exception detection, defocus detection, unabaggage detection, object removal detection Linkage Deep Learning Function Face Capture Yes People Counting Ves Perimeter Protection Ves Perimeter Protection Support alarm triggered by specified target types (human and vehicle) General 12 VDC ± 25%, 0.9 A, max. 10.8 W, two-core terminal block, 24 VAC ± 20%, 0.75 A, max. 10.8 W, PoE: IEEE 802.3af, Class 3, max. 12.9 W Material Dimension Ø162 mm × 141.8 mm (Ø6.4" × 5.6") Package Dimension Ø162 mm × 141.8 mm (Ø6.4" × 5.6") Package Dimension Ø162 mm × 142.5 mm × 189 mm (9.9" × 8.5" × 7.4") Weight Approx. 2058 g (4.5 lb.) Storage Conditions 40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) Startup and Operating Conditions Heartbeat, anti-banding, mirror, flash log, password reset via email, pixel of Cacch, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danit Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Tradition		Wide Dynamic Range (WDR)			
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Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrai	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,				
	e, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian				
Heater Yes		Heater			



Approval				
	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			
FMC	50130-4: 2011 +A1: 2014,			
LIVIC	RCM: AS/NZS CISPR 32: 2015,			
	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,			
	LOA: IEC/EN 60950-1			
Environment	CE-RoHS: 2011/65/EU,			
	WEEE: 2012/19/EU,			
	Reach: Regulation (EC) No 1907/2006			
Protection	IP67: IEC 60529-2013, IK10: IEC 62262:2002			
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: MODERATE PROTECTION Without -Y model: 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-2CD3D86G2T-IZHSUY(8-32mm)(H)

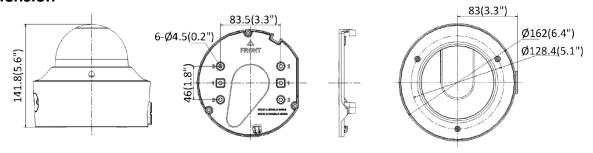
DS-2CD3D86G2T-IZHSUY(2.8-12mm)(H)

DS-2CD3D86G2T-IZHSU(8-32mm)(H)

DS-2CD3D86G2T-IZHSU(2.8-12mm)(H)



Dimension



Unit: mm (inch)

Accessory

Optional

DS-1476ZJ-SUS Corner Mount	DS-1473ZJ-155 Wall Mount	DS-1476ZJ-Y Corner Mount	DS-1475ZJ-Y Vertical Pole Mount	DS-1475ZJ-SUS Vertical Pole Mount
			Ann	, poor
DS-1471ZJ-155 Pendant Mount	DS-1471ZJ-155-Y Pendant Mount	DS-1473ZJ-155-Y Wall Mount		
I				

^{*}Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y bracket models).

Headquarters

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