

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 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
- 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	Lens						
Focal Length & FOV	2.8 to 12 mm: horizontal FOV 112° to 41°, vertical FOV 58° to 23°, diagonal FOV 137° to 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						
Focus	Auto, Semi-auto, Manual						
Aperture	2.8 to 12 mm: F1.4; 8 to 32 mm: F1.7						
Depth of Field	2.8 to 12 mm: 1.8 m to ∞ 8 to 32 mm: 9 m to ∞						
DORI							
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 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							
	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							
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)				
	Main stream: H.265/H.264/H.264+/H.265+,				
Video Compression	Sub-stream: H.265/H.264/MJPEG,				
μ	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				
Adi - Die D-e-	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				
	Up to 32 users				
User/Host	3 user levels: administrator, operator, and user				
	Password protection, complicated password, HTTPS encryption, 802.1X authenticatio				
	(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, TL				
	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				
Wetwork Storage	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+,				
THES DIOWSEL	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+				
Imaga	Local Service. Ciliotite 57.51, Filetox 52.01, Luge 657				
Image	Ves				
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)	120 dB					
Image Enhancement	BLC, HLC, 3D DNR, Defog					
SNR	≥ 52 dB					
Privacy Mask	4 programmable polygon privacy masks					
Interface	. F. S. aas.s pariyon privasiy					
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	Yes					
Audio	1 input (line in), max. input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , interface type: non-equilibrium 1 output (line out), 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					
Event						
	Motion detection (support alarm triggering by specified target types (human and					
Basic Event	vehicle)), video tampering alarm, exception					
	scene change detection, audio exception detection, defocus detection, unattended					
Smart Event	baggage detection, object removal detection					
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm					
Linkage	output, trigger recording, trigger capture, audible warning					
Deep Learning Function						
Face Capture	Yes					
People Counting	Yes					
	Line crossing, intrusion, region entrance, region exiting					
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,					
Power	24 VAC ± 20%, 0.75 A, max. 10.8 W,					
	PoE: IEEE 802.3af, Class 3, max. 12.9 W					
Material	Metal					
Dimension	Ø162 mm × 141.8 mm (Ø6.4" × 5.6")					
	251 mm × 215 mm × 189 mm (9.9" × 8.5" × 7.4")					
Package Dimension	·					
Package Dimension Weight	Approx. 1420 g (3.1 lb.)					
Weight	Approx. 1420 g (3.1 lb.) Approx. 2058 g (4.5 lb.)					
Weight With Package Weight	Approx. 2058 g (4.5 lb.)					
Weight	<u> </u>					



	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,				
Language	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				
Heater	Yes				
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				
EMC	50130-4: 2011 +A1: 2014,				
EIVIC	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)

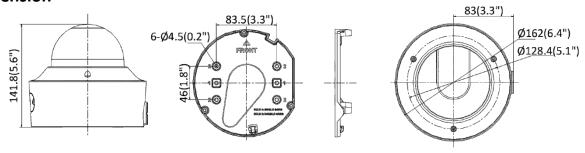
DS-2CD3D86G2T-IZHSU(8-32mm)(H)

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
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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

No.555 Qianmo Road, Binjiang District; Hangzhou 310051, China T+86-571-8807-5998 www.hikvision.com

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