

DS-2CD3B86G2T-IZHSY 8 MP DarkFighter Varifocal 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.

- High quality imaging with 8 MP resolution
- 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
- Motorized varifocal lens for easy installation and monitoring
- Audio and alarm interface available
- Water and dust resistant (IP67) and vandal-resistant (IK10)
- Anti-Corrosion NEMA 4X: NEMA 250-2014





Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.004 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR
Max. Resolution	3840 × 2160
Day & Night	IR cut filter
Shutter Time	1/3 s to 1/100, 000 s
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	Tame to 550 y that of to 50 y rotates of to 550
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm
Focal Length & FOV	2.8 to 12 mm: horizontal FOV 112° to 41°, vertical FOV 58° to 23°, diagonal FOV 137° to 47
Aperture	2.8 to 12 mm: F1.4
Lens Mount	Integrated
Iris Type	P-iris
DORI	
DORI	2.8 to 12 mm: D: 88.8 to 220 m, O: 35.2 to 87.3 m, R: 17.8 to 44 m, I: 8.9 to 22 m
Illuminator	
IR Wavelength	850 nm
Supplement Light Range	2.8 to 12 mm: up to 60 m
Smart Supplement Light	Yes
Supplement Light Type	IR .
Video	
11400	50 Hz:
Main Stream	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)
	50 Hz: 25 fps (640 × 480, 640 × 360)
Sub-Stream	60 Hz: 30 fps (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),
a Jacani	*Third stream is supported under certain settings.
Fourth Stream	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360), *Fourth stream is supported under certain settings.
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
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 region(s) for main stream and sub-stream
3	



Target Cropping	Yes
Audio	
Audio Type	Mono sound
Environment Noise Filtering	Yes
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/AAC
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)
Network	
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, ARP, SNMP, ISUP
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
	Password protection, complicated password, HTTPS encryption, IP address filter,
Security	Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE
	and digest authentication for Open Network Video Interface
	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+,
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+,
	Local service: Chrome 57.0+, Firefox 52.0+
Image	
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Privacy Mask	4 programmable polygon privacy masks
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,
	adjustable by client software or web browser
Interface	
Alarm	3 inputs, 3 outputs (max. 24 VDC/24 VAC, 1 A)
	1 input (line in), terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7
Audio	KΩ, interface type: non-equilibrium,
Audio	1 output (line out), 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 256 GB
Reset Key	Yes
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Power Output	12 VDC, max. 100 mA



Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and
	vehicle)), video tampering alarm, exception
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting
	detection, scene change detection, unattended baggage detection, object removal
	detection, audio exception detection
Linkago	Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger
Linkage	capture, send email, audible warning
Deep Learning Function	
Face Capture	Yes
General	
	12 VDC ± 25%, 1.08 A, max. 13 W,
Power	24 VAC ± 20%, 0.9 A, max. 13 W,
rowei	two-core terminal block,
	PoE: 802.3at, Class 4, 42.5 V to 57 V, 0.36 A to 0.27 A, max. 15 W
Material	Aluminum alloy body
Dimension	Ø105 mm × 328 mm (Ø4.1" × 12.9")
Package Dimension	251 mm × 215 mm × 189 mm (9.9" × 8.5" × 7.4")
Weight	Approx. 1390 g (3.1 lb.)
With Package Weight	Approx. 2206 g (5.0 lb.)
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating	40 °C to CO °C / 40 °C to 140 °C \ Universidity OF 0/ on loss (non-condensing)
Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
	33 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,
Web Client Language	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
Conoral Function	Heartbeat, anti-flicker, mirror, flash log, password reset via email, pixel counter,
General Function	privacy mask
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
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	NEMA 4X (NEMA 250-2018)



Available Model

DS-2CD3B86G2T-IZHSY (2.8 to 12 mm) DS-2CD3B86G2T-IZHSY (8 to 32 mm)

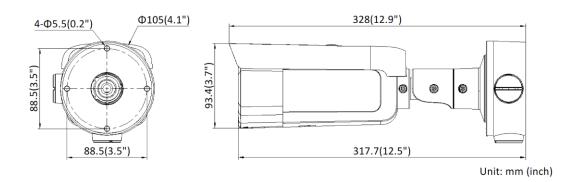
Typical Application

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 MODERATE 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.

Dimension





- Accessory
- Included

Optional







Distributed by

1

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