

# DS-2CD3686G2T-IZS/TPM 8 MP AcuSense 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.

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
- Clear imaging against strong back light due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle targets classification based on deep learning
- Audio and alarm interface available
- Water and dust resistant (IP67) and vandal-resistant (IK10)
- Excellent low-light performance with powered-by-DarkFighter technology
- 3D DNR technology delivers clean and sharp images
- Motorized varifocal lens for easy installation
- Supports TPM 2.0 module



•

# Specification

Camera			
Image Sensor	1/1.8" Progressive Scan CMOS		
Max. Resolution	3840 × 2160		
Min. Illumination	Color: 0.003 Lux @ (F1.6, 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 90°, rotate: 0° to 360°		
Lens			
Lens Type	Varifocal lens, motorized lens, 2.7 to 13.5 mm and 7 to 35 mm optional		
Focal Length & FOV	<ul> <li>2.7 to 13.5 mm: horizontal FOV 108° to 46°, vertical FOV 58° to 26°, diagonal FOV 127° to 52°;</li> <li>7 to 35 mm: horizontal FOV 42° to 15°, vertical FOV 23° to 9°, diagonal FOV 49° to 17°</li> </ul>		
Lens Mount	2.7 to 13.5 mm: Ø14; 7 to 35 mm: Integrated		
Iris Type	Auto-iris		
Focus	Auto, Semi-auto, Manual		
Aperture	2.7 to 13.5 mm: F1.6; 7 to 35 mm: F1.6		
DORI			
	2.7 to 13.5 mm: D: 86 to 192 m, O: 34 to 76 m, R: 17 to 38 m, I: 8 to 19 m		
DORI	7 to 35 mm: D: 218 to 580 m, O: 86 to 230 m, R: 43 to 116 m, I: 21 to 58 m		
Illuminator			
Supplement Light Type	IR		
Supplement Light Range	2.7 to 13.5 mm: up to 60 m; 7 to 35 mm: up to 80 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,		
	Third stream: H.265/H.264,		
	Fourth stream: H.265/H.264/MJPEG		
Video Bit Rate	32 Kbps to 16 Mbps		
Н.264 Туре	Baseline Profile, Main Profile, High Profile		
Н.265 Туре	Main Profile		
Bit Rate Control			
Scalable Video Coding (SVC)	CBR, VBR H.264 and H.265 encoding		
Region of Interest (ROI)	5 fixed regions for main stream and sub-stream		
Target Cropping	Yes		
Audio	165		
Audio Compression	G 711/G 722 1/G 726/MD2L2/DCM/MD2/AAC LC		
•	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC		
Audio Type	Mono sound		
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps		
Audia Compling Data	(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		
	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), TPM 2.0 (FIPS 140-2 level 2)		
	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,		
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	≥ 52 dB		



.

Privacy Mask	4 programmable polygon privacy masks	
Interface		
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	
	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input	
Audio	impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,	
	1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output	
	impedance: 100 $\Omega$ , interface type: non-equilibrium	
Alarm	3 inputs, 3 outputs (max. 24 VDC/24 VAC, 1 A)	
Reset Key	Yes	
Power Output	12 VDC, max. 100 mA	
Event		
Basic Event	Motion detection (support alarm triggering by specified target types (human and	
Dasic Eveni	vehicle)), video tampering alarm, exception	
Smart Event	scene change detection, audio exception detection, defocus detection, unattended	
Smart Event	baggage detection, object removal detection	
Linkana	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%, 1.08 A, max. 13 W, Ø5.5 mm coaxial power plug, reverse polarity	
Power	protection,	
	PoE: IEEE 802.3at, Class 4, max. 15 W	
Material	Aluminum alloy body	
Dimension	Ø105 mm × 332.8 mm (Ø4.1" × 13.1")	
Package Dimension	385 mm × 190 mm × 180 mm (15.2" × 7.5" × 7.1")	
Weight	Approx. 1475 g (3.0 lb.)	
With Package Weight	Approx. 2276 g (4.6 lb.)	
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)	
General Function	Heartbeat, anti-banding, mirror, flash log, password reset via email, pixel counter	
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,	
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,	
Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,	
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	
	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,	
Language Approval	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian	
	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian FCC: 47 CFR Part 15, Subpart B,	
Approval	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian 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	
	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian FCC: 47 CFR Part 15, Subpart B,	



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	-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.

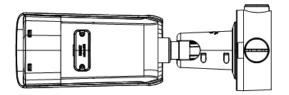
Level	Description	
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti- corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.	
Moderate protection	Hikvision products at this level are 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.	

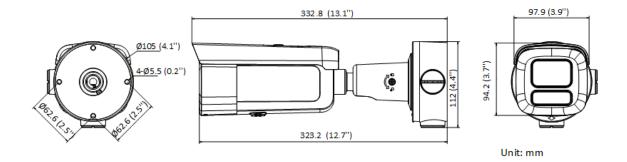
# Available Model

DS-2CD3686G2T-IZS/TPM(2.7-13.5mm)



### Dimension





## Accessory

#### Included



#### Optional

DS-1275ZJ-S-SUS	DS-1275ZJ-SUS	DS-1276ZJ-SUS
Vertical Pole Mount	Vertical Pole Mount	Corner Mount
	a s n	

#### Headquarters

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

Follow us on social media to get the latest product and solution information.











nel 🔘 hikvisionhq