

### DS-2CD3688G2T-LIZS

# **8 MP Dual Illumination Varifocal Bullet Network Camera**





- High quality imaging with 8 MP resolution
- Smart Dual-Light: advanced technology with long range
- Clear imaging against strong back light due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Motorized varifocal lens for easy installation and monitoring
- Focus on human and vehicle classification based on deep learning
- Water and dust resistant (IP67) and vandal resistant (IK10)



# Specification

Camera		
Image Sensor	1/1.8" Progressive Scan CMOS	
Max. Resolution	3840 × 2160	
Min. Illumination	Color: 0.0028 Lux @ (F1.2, 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 355°, tilt: 0° to 90°, rotate: 0° to 360°	
Lens		
Lens Type	Varifocal lens, motorized lens, 2.7 to 13.5 mm	
Focal Length & FOV	2.7 to 13.5 mm, horizontal FOV 112.3° to 41.2°, vertical FOV 58.1° to 23.1°, diagonal FOV 137.4° to 47.3°	
Lens Mount	Integrated	
Iris Type	DC iris	
Aperture	F1.2	
Depth of Field	1 m to ∞	
DORI		
DORI	Wide: D: 87 m, O: 35 m, R: 17 m, I: 9 m Tele: D: 216 m, O: 86 m, R: 43 m, I: 22 m	
Illuminator		
Supplement Light Type	IR, White Light	
Supplement Light Range	Up to 60 m	
Smart Supplement Light	Yes	
IR Wavelength	850 nm	
НЕОР		
	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 $\times$ 1080, 1280 $\times$ 720, 640 $\times$ 480, 640 $\times$ 360) 60 Hz: 10 fps (1920 $\times$ 1080, 1280 $\times$ 720, 640 $\times$ 480, 640 $\times$ 360) *Third stream is supported under certain settings.	



	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	
Fourth Stream	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,	
	*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	
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		
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC	
	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,	
11000013	WebSocket, WebSockets, SRTP	
Simultaneous Live View	Up to 6 channels	
API	Open Network Video Interface (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 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	
Wetwork Storage	detection are supported.	
Client	iVMS-4200, Hik-Connect, Hik-Central	
	Plug-in required live view: IE 10, IE 11,	
Web Browser	riug-iii lequiled live view. IL 10, IL 11,	
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+,	
Web Browser		
	Plug-in free live view: Chrome 57.0+, Firefox 52.0+,	
Image	Plug-in free live view: Chrome 57.0+, Firefox 52.0+,	
<b>Image</b> Image Parameters Switch	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Local service: Chrome 57.0+, Firefox 52.0+  Yes	
Image	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Local service: Chrome 57.0+, Firefox 52.0+	



Wide Dynamic Range (WDR)	120 dB		
Image Enhancement	BLC, HLC, 3D DNR		
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		
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: $100 \Omega$ , 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			
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 (support alarm triggered by specified target types (human and vehicle)), scene change detection, audio exception detection, defocus detection		
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture, trigger alarm output, audible warning		
Deep Learning Function			
Face Capture	Yes		
People Counting	Yes		
General			
Power	12 VDC ± 25%, 1.21 A, max. 14.5 W, Ø5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 18 W		
Material	Front cover: Metal, body: Metal, bracket: Metal		
Dimension	334 mm × 97.9 mm × 95.7 mm (13.2" × 3.9" × 3.8")		
Package Dimension	386 mm × 190 mm × 180 mm (15.2" × 7.5" × 7.1")		
Weight	Approx. 1085 g (2.4 lb.)		
With Package Weight	Approx. 1639 g (3.6 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	
	FCC: 47 CFR Part 15, Subpart B,
EMC	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN
	50130-4: 2011 +A1: 2014
	UL: UL 62368-1,
Safety	CB: IEC 62368-1: 2014+A11,
	CE-LVD: EN 62368-1: 2014/A11: 2017
Environment	CE-RoHS: 2011/65/EU
Protection	IP67: IEC 60529-2013, IK10: IEC 62262:2002

## 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.

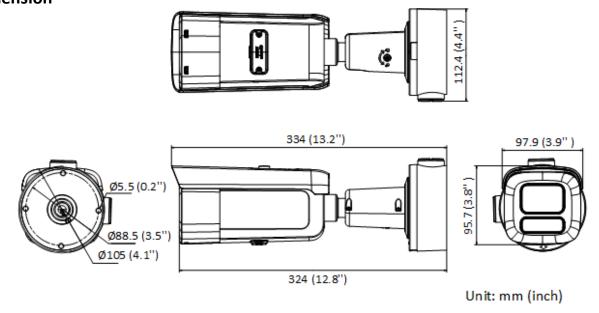
This model has NO SPECIFIC PROTECTION.

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.	

#### Available Model

DS-2CD3688G2T-LIZS (2.7 to 13.5 mm)

#### Dimension





- Accessory
- Included



#### Optional

CM	PM
Corner Mount	Vertical Pole Mount

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