DS-2XE6885G0-IZHS(B)
8 MP Explosion-Proof Network Bullet Camera

- Explosion-proof design: the camera has passed international ATEX & IECEx certifications, and can be used in gas and dust hazardous scenarios
- 316L stainless steel enclosure, protecting the camera from damage caused by sparks or corrosive materials
- IP68 water resistant, preventing water ingress for outdoor use
- H.265+/H.265/H.264+/H.264 encoding: efficient compression technology saves storage space and reduces bandwidth requirements
- 100 VAC to 240 VAC wide range power supply: easy to deploy cables and safer compared to a power adapter solution

▪ Specification

Camera	
Image Sensor	1/2" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.009 Lux @ (F1.2, AGC ON), B/W: 0.0009 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter
Lens	
Lens Type	Varifocal lens, 2.8 to 12 mm and 8 to 32 mm optional
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 42° to 15°, vertical FOV 23° to 8°, diagonal FOV 49° to 17°
Lens Mount	Integrated
Focus	Auto, semi-auto, manual
Iris Type	Auto-iris, DC drive
Aperture	2.8 to 12 mm: F1.4
	8 to 32 mm: F1.7, constant F1.7 throughout the zoom range
DORI	
DORI	2.8 to 12 mm: D: 218 m, O: 86.5 m, R: 43.6 m, I: 21.8 m
	8 to 32 mm: D: 580 m, O: 230.2 m, R: 116 m, I: 58 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	2.8 to 12 mm: up to 60 m
	8 to 32 mm: up to 100 m
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)
	60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480)
	60 Hz: 30 fps (704 × 480, 640 × 480)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)
	60 Hz: 30 fps (704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)
	60 Hz: 30 fps (704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264
	Sub-stream/Fourth stream/Fifth stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264
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.265 and H.264 encoding
Region of Interest (ROI)	5 fixed regions for each stream
Target Cropping	Yes

Audio

Audio Type	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC-LC/MP3
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)/8 to 320 Kbps (MP3)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Environment Noise Filtering	Yes

Network

Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets
Simultaneous Live View	Up to 20 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
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, TLS1.2
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE10, IE11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari12+ Local service: Chrome 57.0+, Firefox 52.0+

Image

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, Alarm Trigger (-S), Video Trigger
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Image Stabilization	EIS
Image Enhancement	BLC, HLC, Defog, 3D DNR
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format

Interface

Video Output	1 Vp-p Composite Output (75 Ω/BNC)
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC/TF card, up to 256 GB *You are recommended to purchase memory card together with the product if needed. After ordering, the memory card will be installed to product during manufacturing.

Audio	1 input (line in), terminal block, max. input amplitude: 3.3 vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium; 1 output (line out), terminal block, max. output amplitude: 3.3 vpp, output impedance: 100 Ω, interface type: non-equilibrium
Alarm	1 input, 1 output (max. 24 VDC, 1 A or 110 VAC, 500 mA)
Fiber Optical	1 fiber optical interface, single module, single mode, 20 km transmission distance, 1310 nm (TX) and 1550 nm (RX), 155 Mbps transmission rate
Event	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality diagnosis, vibration detection
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 alarm output (-S model), trigger recording, trigger capture, audible warning
Deep Learning Function	
Hard Hat Detection	Detects up to 30 human targets simultaneously Supports up to 4 shield regions
Metadata	Metadata of road traffic is supported
Road Traffic and Vehicle Detection	Blocklist and allowlist: up to 10,000 records; Captures vehicle that has no license plate; Support license plate recognition of motorcycles (only in checkpoint scenario); Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.)
General	
Power	100 to 240 VAC, 0.4 A to 0.17 A, max. 18 W, terminal block; PoE: 802.3at, 42.5 to 57 V, 0.55 to 0.45 A, max. 18 W
Material	Stainless steel 316L & anti-corrosion coating
Dimension	352 mm × 200 mm × 214 mm (13.9" × 7.9" × 8.4")
Package Dimension	438 mm × 283 mm × 303 mm (17.2" × 11.1" × 11.9")
Weight	Approx. 14 kg (30.9 lb.)
With Package Weight	Approx. 15 kg (33.1 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-40 °C to 60 °C (-40 °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
General Function	Anti-flicker, 5 streams and 5 custom streams, heartbeat, mirror, privacy mask, pixel counter
Heater	Yes
Cable Length	0.09 m (0.30 ft.)

Approval	
EMC	FCC: FCC-SDoC (ANSI C63.4, FCC Part15 sub B)
	CE: CE-EMC (EN 55024: 2010 + A1: 2015, EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013 + A1: 2019)
	RCM: AS/NZS 60950.1: 2003 + Am1, Am2 and Am3, AS/NZS CISPR 32: 2015
	IC: IC-VoC (ICES-003 Issue 7: 2020)
Safety	UL: UL 62368-1, CAN/CSA C22.2 No. 60950-1-07: 2014
	UL: Class I, Zone 1, AEx db IIC T6 Zone 21, AEx tb IIIC T80 ℃ Ex db IIC T6 Gb X Ex tb IIIC T80 ℃ Db X
	CB: IEC IEC 60079-0
	CE: CE-LVD (EN 62368-1: 2014/A11: 2017)
	BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005
Protection	IP68: IEC 60529-2013
Explosion-Proof Protection	ATEX: Ex II 2 G D Ex db IIC T6 Gb/Ex tb IIIC T80 ℃ Db IP68
	IECEx: Ex db IIC T6 Gb/Ex tb IIIC T80 ℃ Db IP68
	For explosive gas atmospheres, the maximum surface temperature is 85 ℃
	For flammable dust atmospheres, the maximum surface temperature is 80 ℃
	IIC: for explosive gas atmospheres other than mines susceptible to firedamp
	For explosive gas mixture atmospheres: Zone 1, Zone 2, Zone 21, Zone 22.
Anti-Corrosion Protection	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.

This model has TOP-LEVEL PROTECTION.

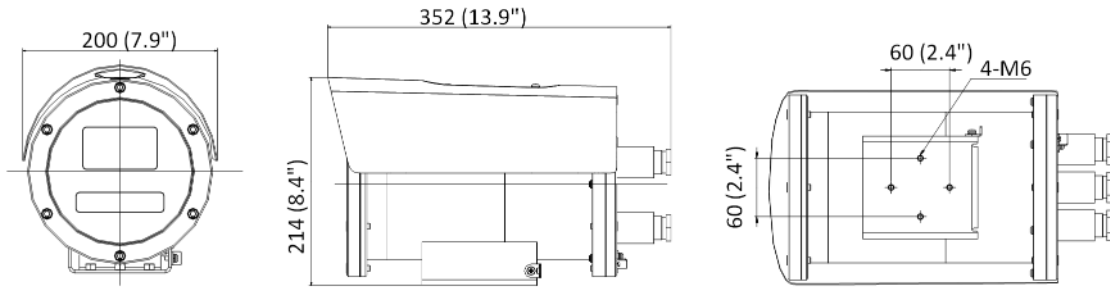| Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are 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-2XE6885G0-IZHS(2.8-12mm)(B)
DS-2XE6885G0-IZHS(8-32mm)(B)
DS-2XE6885G0-IZHS(2.8-12mm)(B)(USA-STD)
DS-2XE6885G0-IZHS(8-32mm)(B)(USA-STD)

▪ Dimension

200 (7.9")

352 (13.9")

214 (8.4")

60 (2.4") 4-M6

60 (2.4")

Unit: mm (inch)

▪ **Accessory**

▪ **Optional**

DS-1707ZJ-Y-AC(OS) Wall mount	DS-1751ZJ-AC(OS) Pendant Mount	DS-2780ZJ-X(OS)(O-STD)/316L Junction box	DS-2XE2601-1-Y(SS) Explosion Proof Flexible Conduit

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