

DS-2CD3781G2-LIZSUUHK**8 MP Smart Hybrid Light Varifocal Dome Network Camera**

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 defense capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 8 MP resolution
- Support Human and Vehicle Detection
- Smart Hybrid Light: advanced technology with long range
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 120 dB WDR technology
- 3D DNR technology delivers clean and sharp images
- Built-in microphone for real-time audio security
- Motorized varifocal lens for easy installation and monitoring
- Support on-board storage up to 512 GB (SD card slot)
- Water and dust resistant (IP67) and vandal proof (IK10)

▪ Specification

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Shutter Time	1/3 s to 1/100,000 s
Min. Illumination	Color 0.005 Lux @ (F1.6, AGC ON), B/W 0 Lux at F1.6, and 0 Lux with IR illumination ON
Day & Night	ICR: IR cut filter
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Lens	
Lens Type	Varifocal lens, motorized lens, 2.7 to 13.5 mm
Focal Length & FOV	2.7 to 13.5 mm, horizontal FOV 107.7° to 32.5°, vertical FOV 56.5° to 18.3°, diagonal FOV 129.3° to 37.3°
Lens Mount	Ø14
Iris Type	Auto Iris
Focus	Support
Aperture	Max. F1.6
Depth of Field	Wide: 1 m to ∞ Tele: 4 m to ∞
DORI	
DORI	Wide: D: 89.6m, O: 35.6 m, R: 17.9 m, I: 9.0 m Tele: D: 272.0 m, O: 107.9 m, R: 54.4 m, I: 27.2 m
Illuminator	
Supplement Light Type	IR, White Light
Supplement Light Range	Up to 40 m
Smart Supplement Light	Yes, automatically to avoid image overexposure
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 15 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 15 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 20fps: 3 MP 25fps: 2 MP
Sub-Stream	50 Hz: 15 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 15 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile, Adjustable resolution, quality and constant bit rate control, Smart Stream Technology
H.265 Type	Main Profile, Adjustable resolution, quality and constant bit rate control, Smart Stream Technology
Bit Rate Control	CBR, VBR
Scalable Video Coding (SVC)	Yes, H.264 or H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream and sub-stream

Audio	
Audio Type	Mono sound
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz /48 kHz
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/ MPEG-2 AAC-LC
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)
Network	
Protocols	TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, RTCP, NTP, IGMP, IPv4, IPv6, UDP, QoS, FTP, SMTP, HTTPS, DDNS, UPnP, 802.1X
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, security audit log, TLS 1.2, TLS 1.3, host authentication (MAC address)
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Client	iVMS-4200, Hik-Connect
Web Browser	Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+
Image	
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	Backlight Compensation BLC, Highlight Compensation HLC, Digital noise reduction 3D DNR
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, Auto gain control, white balance, adjustable by client software or web browser
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
Built-in Microphone	Yes, 1 built-in microphone
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 Ω, interface type: non-equilibrium
Alarm	1 input, 1 output (max. 12 VDC, 30 mA)
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception(SD Card full/error, network disconnect, IP conflict, illegal login),_Audio Exception
Smart Event	Line crossing detection, intrusion detection, region entrance, region exiting, unattended baggage detection, object removal detection, scene change detection, audio exception detection, and defocus detection

Linkage	Upload to HTTP, FTP/ SFTP , memory card/ SD card , NAS, notify surveillance center/ Trigger camera, send email, trigger recording/ audio clip, trigger capture, digital output
General	
Power	12 VDC $\pm$ 25%, 0.8 A, max. 9.6 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 12 W
Material	Aluminum alloy
Dimension	$\varnothing$ 121.5 mm $\times$ 97.6 mm ($\varnothing$ 4.78" $\times$ 3.84")
Package Dimension	150 mm $\times$ 150 mm $\times$ 141 mm (5.91" $\times$ 5.91" $\times$ 5.55")
Weight	Approx. 650 g (1.4 lb.)
With Package Weight	Approx. 880 g (1.9 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)
Language	English, Ukrainian
General Function	Heartbeat, Image mirror, flash log, password reset via email, pixel counter, password protection, anti-banding, new firmware notification via the client software
Approval	
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, IC: ICES-003: Issue 7
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
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.

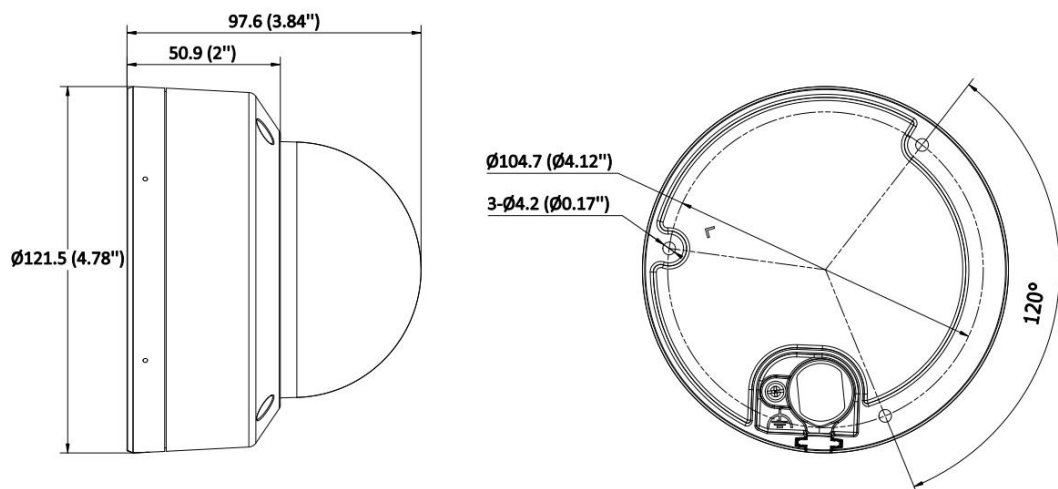
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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-2CD3781G2-LIZSUUHK(2.7-13.5mm)



▪ Dimension

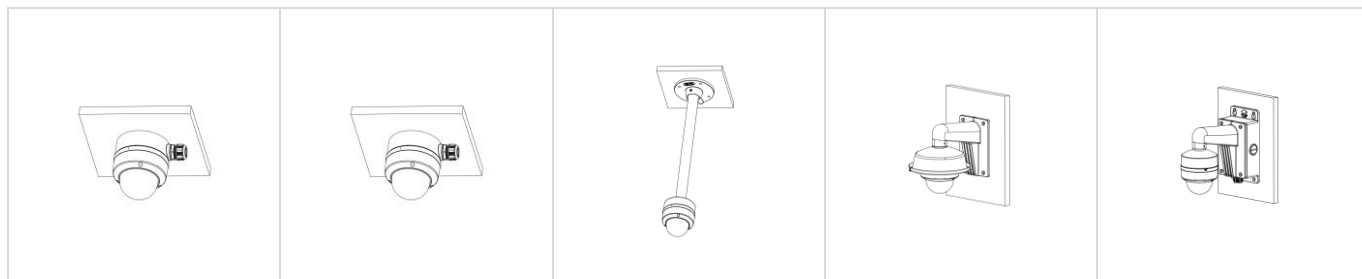


Unit: mm (inch)

▪ Accessory

▪ Optional

DS-1272ZJ-120 Wall mount	DS-1272ZJ-120B Wall mount	DS-1271ZJ-120 Pendant Mount	DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount
DS-1280ZJ-DM46 Junction box	DS-2280ZJ-WA120 Junction box	DS-2210ZJ-WA-120 Pendant Mount	DS-2200ZJ-WA-120 Wall mount	DS-2200ZJ-WAJ-120 Wall mount



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