DS-2CD3787G3-LIZSUY/SL(PTRZ)

8 MP Smart hybrid light with Darkfighter S Strobe Light and Audible Warning Moto Camera

AcuSense

DarkFighter 2.0





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.

- Motorized Pan, Tilt, Rotate, Zoom for easy installation and maintenance
- HIK AI-ISP for excellent noise reduction effect
- 24/7 colorful imaging
- IR light & White light & Smart Hybrid Light modes
- Clear imaging against strong back light due to 130 dB WDR technology
- Clear two-way audio with dual-array mic
- Audio and alarm interface available
- Active strobe light and audio alarm to warn intruders off (-SL)
- Water and dust resistant (IP66) and vandal resistant (IK10)

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON),0 Lux with light
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Remote adjustment (Max. 1000 cycles) Pan: 0° to 350°,tilt: 0° to 85°,rotate: 0° to 350°
Lens	
Lens Type	Varifocal lens, motorized lens, 2.7 to 13.5 mm
Focal Length & FOV	Horizontal FOV 112.3° to 41.2°, vertical FOV 58.1° to 23.1°, diagonal FOV 137.4° to 47.3°
Lens Mount	Integrated
Focus	Auto, Semi-auto, Manual
Iris Type	Auto-iris
Aperture	F1.47 to F2.53
Depth of Field	1 m to ∞
DORI	
DORI	Wide: D: 89.2 m, O: 35.4 m, R: 17.8 m, I: 8.9 m Tele: D: 220.0 m, O: 87.3 m, R: 44.0 m, I: 22.0 m
Illuminator	
Supplement Light Type	IR, White Light
Supplement Light Range	Up to 40 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
HEOP	
Open Resources	Memory: 40 MB, Smart RAM: 450 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: 30 fps (3840 × 2160, 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 (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
Fourth Stream	50 Hz: 1 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 1 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 regions for main stream and sub-stream
Target Cropping	Yes
e-PTZ	Support Patrol and Auto Tracking settings
Audio	
Audio Type	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
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-LC)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz
Environment Noise Filtering	Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP
Simultaneous Live View	Up to 6 channels
API	ONVIF (Profile S, Profile T, Profile G),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-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest 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)
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR)
Client	iVMS-4200,Hik-Connect,Hik-Central
Web Browser	Plug-in free live view: Chrome 91+, Firefox 88+, Edge 91+, Safari 13+ Local service: Chrome 91+, Firefox 88+, Edge 91+
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
Wide Dynamic Range (WDR)	130 dB
Image Enhancement	BLC, HLC, 3D DNR, Distortion Correction, Defog
SNR	≥ 52 dB
Image Stabilization	EIS
Privacy Mask	8 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, 2 built-in microphones
Built-in Speaker	1 built-in speaker, Max. power consumption: 2 W, max. sound pressure level: 10 cm: 97 dB.
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. 24 VDC/24 VAC, 1 A)
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Smart Event	Scene change detection, audio exception detection, defocus detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email, audible warning
Deep Learning Function	
Face Capture	Yes
People Counting	Yes
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
General	
Power	12 VDC ± 25%, 1.35 A, max. 16.2 W,two-core terminal block, reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 18 W
Dimension	Ø155 mm × 140.4 mm (Ø6.10" × 5.53")
Package Dimension	203 mm × 203 mm × 230 mm (7.99" × 7.99" × 9.06")
Weight	Approx. 1250 g (2.76 lb.)
With Package Weight	Approx. 1900 g (4.19 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
General Function	Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding
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
Flashing Light	White Light
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
Safety	CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11:2017

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)

▪ 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.

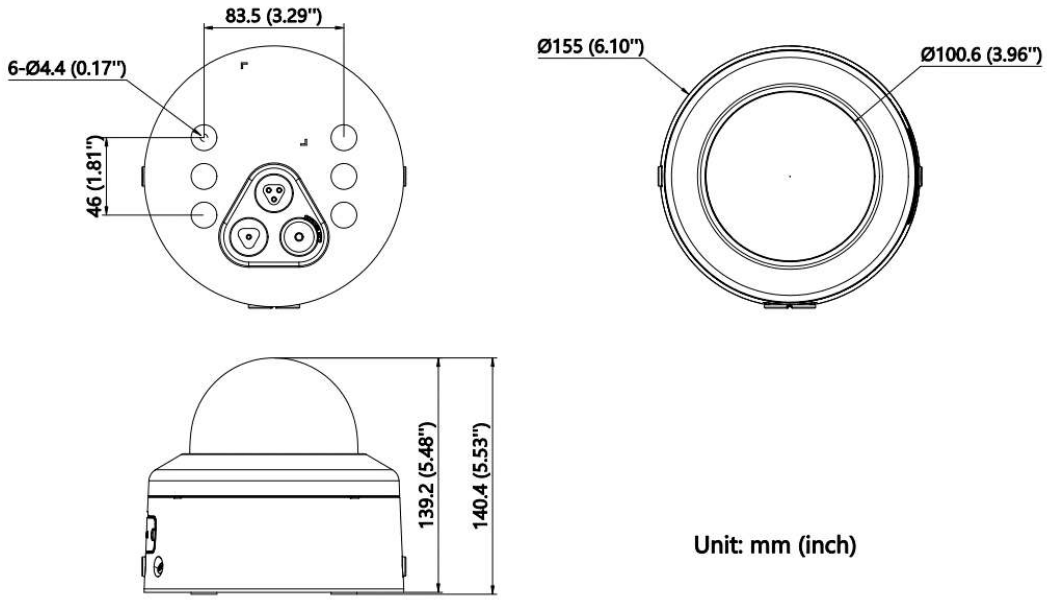
With -Y model: This model has MODERATE PROTECTION.
Without -Y model: This model has NO SPECIFIC PROTECTION.

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-2CD3787G3-LIZSUY/SL(PTRZ)(2.7-13.5mm)

▪ Dimension



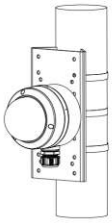
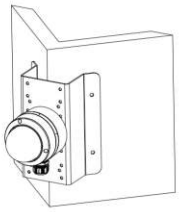
▪ Accessory

▪ Optional

DS-1250ZJ	DS-1475ZJ-SUS	DS-1476ZJ-SUS	DS-4220ZJ-WC	DS-1473ZJ-155-Y
				

DS-1471ZJ-155-Y


▪ Installation Methods

Wall Mounting DS-1250ZJ	Wall Mounting DS-1473ZJ-155-Y+DS-1253ZJ-L	Vertical Pole Mounting DS-1475ZJ-SUS	Corner Mounting DS-1476ZJ-SUS	In-Ceiling Mounting DS-4220ZJ-WC
				

Pendant Mounting DS-1471ZJ-155-Y


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