HIKVISION

DS-2CD2H83G3-LIZS2UY

8 MP Acusense Smart Hybrid Light Motorized Varifocal Turret Network Camera

AcuSense 3.0

Smart Hybrid Light

- High quality imaging with 8 MP resolution
- Upgraded imaging performance with Powered by DarkFighter
- Motorized varifocal lens for easy installation and monitoring
- Smart Hybrid Light: Smart Mode & IR Mode & White Light Mode
- Anti-corrosion design for stable protection (NEMA 4X)
- Person and vehicle classification based on deep learning
- 130 dB & AI WDR, upgraded performance, with auto on/off
- Crystal-clear audio with Arrayed Dual-Mic
- Dust and water resistant (IP67), and vandal resistant (IK10)
- Audio and alarm interface available

▪ Specification

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.003 Lux @ (F1.6, 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 360°,tilt: 0° to 75°,rotate: 0° to 360°
Lens	
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 106.5° to 30.2°, vertical FOV 55.7° to 17°, diagonal FOV 128.5° to 34.7°
Lens Mount	Ø14
Iris Type	Fixed
Aperture	F1.6
DORI	
DORI	2.8 to 12 mm: O: 112 m to 340 m, O: 56 m to 170 m, D: 28 m to 85 m, P: 17.9 m to 54.4 m, C: 9 m to 27.2 m, V: 4.5 m to 13.6 m, S: 1.5 m to 4.5 m
Illuminator	
Supplement Light Type	IR,White Light
Supplement Light Range	Up to 40 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
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 (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third 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, *Third stream is 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
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Bit Rate Control	CBR,VBR
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Target Cropping	Yes
Audio	
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
Simultaneous Live View	Up to 6 channels
API	ONVIF (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2/1.3, WSSE and digest authentication for Open Network Video Interface
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Client	iVMS-4200,Hik-Connect,Hik-Central
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.
Web Browser	Plug-in required live view: IE 11, Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+, Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+
Image	
Image Parameters Switch	Yes
Day/Night Switch	Day,Night,Auto,Schedule
Image Settings	Rotate mode
Wide Dynamic Range (WDR)	130 dB
SNR	≥ 52 dB
Image Enhancement	BLC,HLC,3D DNR
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
Audio	Built-in Microphone: Arrayed dual-microphone 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 and animal)),video tampering alarm,exception
Smart Event	Face detection
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture

Deep Learning Function	
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle and animal)
General	
Power	12 VDC ± 25%, 0.88 A, max. 10.56 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 12.5 W
Material	Metal
Dimension	Ø138.6 mm × 123 mm (Ø5.46" × 4.84")
Package Dimension	170 mm × 170 mm × 160 mm (6.69" × 6.69" × 6.30")
Weight	Approx. 860 g (1.90 lb.)
With Package Weight	Approx. 1140 g (2.51 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	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	Heartbeat,mirror,flash log,password reset via email,pixel counter,anti-banding
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, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015
Safety	CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005, LOA: IEC/EN 60950-1
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

▪ Typical Application

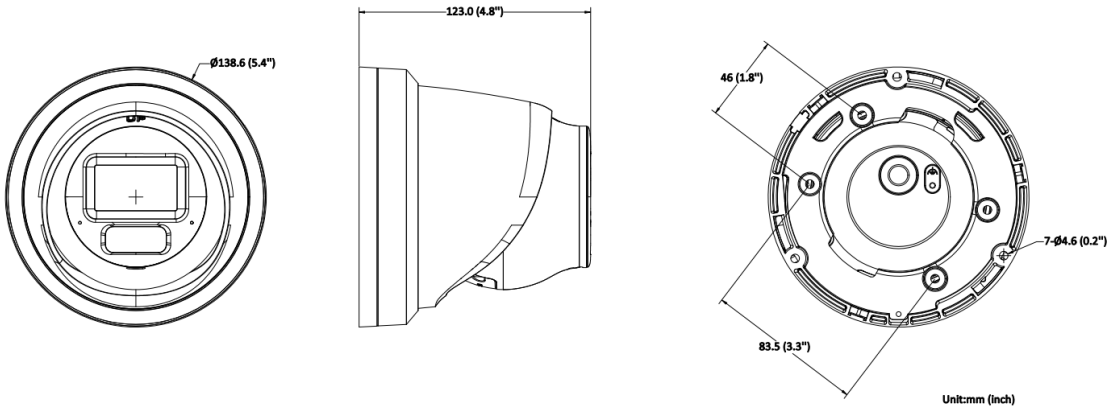
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has Moderate 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.

▪ Dimension

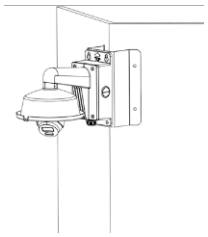
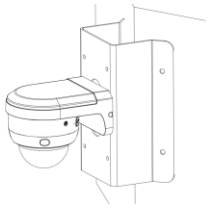
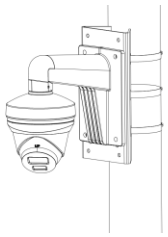
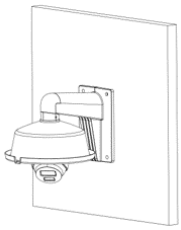


▪ Accessory

▪ Optional

DS-1276ZJ-SUS	DS-1275ZJ-SUS	DS-1273ZJ-140-Y	DS-1273ZJ-140B-Y	DS-1475ZJ-SUS
DS-1476ZJ-SUS	**DS-220AZJ-145-WAY**	**DS-1271ZJ-140-Y**	**DS-1275ZJ-S-SUS**	**DS-1280ZJ-PT6-Y**

▪ Installation Methods

Corner Mounting DS-1276ZJ-SUS+DS-1253ZJ-L+DS-1273ZJ-140B-Y	Corner Mounting DS-1476ZJ-SUS+DS-220AZJ-145-WAY	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1273ZJ-140-Y	Vertical Pole Mounting DS-1475ZJ-SUS+DS-220AZJ-145-WAY	Vertical Pole Mounting DS-1275ZJ-S-SUS+DS-220AZJ-145-WAY
				
Wall Mounting DS-1273ZJ-140-Y+DS-1253ZJ-L	**Wall Mounting DS-1273ZJ-140B-Y+DS-1253ZJ-L**	**Wall Mounting DS-220AZJ-145-WAY**	**Pendant Mounting DS-1271ZJ-140-Y**	**Junction Box DS-1280ZJ-PT6-Y**
				

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