DS-2CD2H83G2-LIZS2U

8 MP Acusense Smart Hybrid Light Motorized Varifocal Turret Network Camera





- High quality imaging with 8 MP resolution
- Acusense: Focus on human and vehicle classification based on deep learning
- Smart Hybrid Light: Integrates IR and White lights, 3 supplemental lighting modes
- Built-in arrayed dual-microphone for real-time high quality audio security
- Clear imaging against strong back light due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Motorized varifocal lens for easy installation and monitoring
- Water and dust resistant (IP67) and vandal-resistant (IK10)

▪ Specification

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.005 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: D: 88.3 m to 289.7 m, O: 35 m to 114.9 m, R: 17.7 m to 57.9 m, I: 8.8 m to 29.0 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: 20 fps (3840 × 2160) 25 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 20 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 × 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), 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
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: 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)	120 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
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
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
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	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 Support alarm triggering by specified target types (human and vehicle)
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 (Ø5.4" × 4.8")
Package Dimension	170 mm × 170 mm × 160 mm (6.7" × 6.7" × 6.3")
Weight	Approx. 860 g (1.9 lb.)
With Package Weight	Approx. 1140 g (2.5 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 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

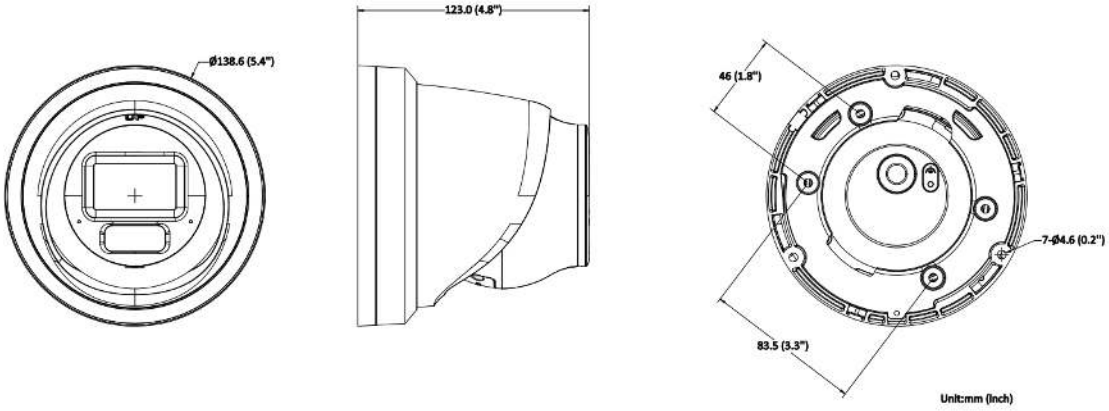
	anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

▪ Available Model

DS-2CD2H83G2-LIZS2U(2.8-12mm)

DS-2CD2H83G2-LIZS2U(2.8-12mm)(BLACK)

▪ Dimension

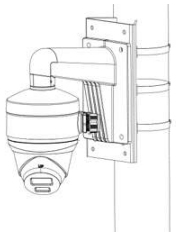
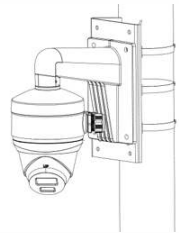
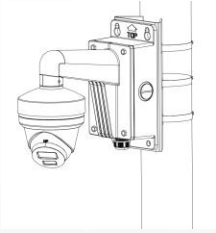
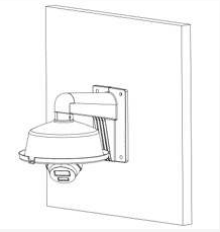


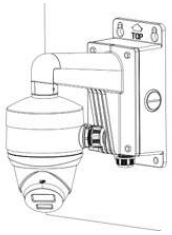
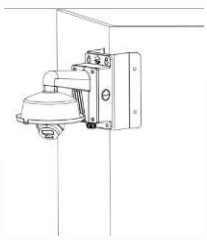
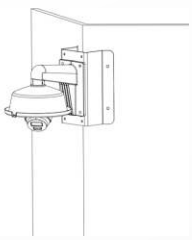
▪ Accessory

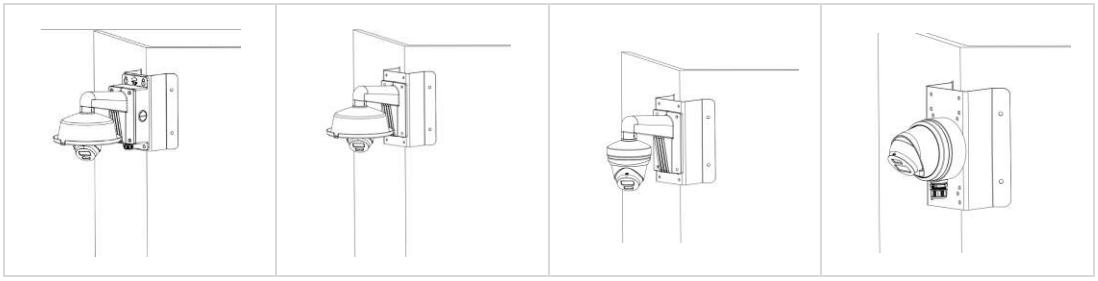
▪ Optional

DS-1280ZJ-PT6	DS-1273ZJ-140	DS-1275ZJ-SUS	DS-2280ZJ-WA140	DS-2200ZJ-WA-140
				
DS-1273ZJ-140B	**DS-2210ZJ-WA-140**	**DS-2200ZJ-WAJ-140**	**DS-1271ZJ-140**	**DS-1276ZJ-SUS**
				

▪ Installation Methods

Junction Box DS-1280ZJ-PT6	Junction Box DS-2280ZJ-WA140	Vertical Pole Mounting DS-1275ZJ-SUS+DS-2200ZJ-WA-140+DS-1253ZJ-L	Vertical Pole Mounting DS-1275ZJ-SUS+DS-2200ZJ-WAJ-140+DS-1253ZJ-L	Vertical Pole Mounting DS-1275ZJ-SUS+DS-2280ZJ-WA140
				
Vertical Pole Mounting DS-1275ZJ-SUS+DS-2200ZJ-WA-140+DS-1280ZJ-PT6	Vertical Pole Mounting DS-1275ZJ-SUS+DS-2200ZJ-WAJ-140+DS-1280ZJ-PT6	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1273ZJ-140	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1273ZJ-140B	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1273ZJ-140+DS-1253ZJ-L
				
Vertical Pole Mounting DS-1275ZJ-SUS+DS-2200ZJ-WAJ-140	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1273ZJ-140B+DS-1280ZJ-PT6	Vertical Pole Mounting DS-1275ZJ-SUS+DS-2200ZJ-WA-140	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1273ZJ-140B+DS-1253ZJ-L	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1273ZJ-140+DS-1280ZJ-PT6
				
Vertical Pole Mounting DS-1276ZJ-SUS+DS-1273ZJ-140B	Vertical Pole Mounting DS-1276ZJ-SUS+DS-1273ZJ-140	Wall Mounting DS-1273ZJ-140+DS-1280ZJ-PT6	Wall Mounting DS-1273ZJ-140+DS-1253ZJ-L	Wall Mounting DS-1273ZJ-140
				

Wall Mounting DS-2200ZJ-WA-140+DS-1253ZJ-L	Wall Mounting DS-2200ZJ-WA-140+DS-1280ZJ-PT6	Wall Mounting DS-2200ZJ-WA-140	Wall Mounting DS-1273ZJ-140B	Wall Mounting DS-1273ZJ-140B+DS-1280ZJ-PT6
				
Wall Mounting DS-1273ZJ-140B+DS-1253ZJ-L	Wall Mounting DS-2200ZJ-WAJ-140+DS-1280ZJ-PT6	Wall Mounting DS-2200ZJ-WAJ-140+DS-1253ZJ-L	Wall Mounting DS-2200ZJ-WAJ-140	Pendant Mounting DS-2210ZJ-WA-140
				
Pendant Mounting DS-2210ZJ-WA-140+DS-1280ZJ-PT6	Pendant Mounting DS-1271ZJ-140	Pendant Mounting DS-1271ZJ-140+DS-1280ZJ-PT6	Corner Mounting DS-1276ZJ-SUS+DS-1273ZJ-140+DS-1280ZJ-PT6	Corner Mounting DS-1276ZJ-SUS+DS-2200ZJ-WAJ-140+DS-1280ZJ-PT6
				
Corner Mounting DS-1276ZJ-SUS+DS-1273ZJ-140B+DS-1280ZJ-PT6	Corner Mounting DS-1276ZJ-SUS+DS-2200ZJ-WAJ-140	Corner Mounting DS-1276ZJ-SUS+DS-2200ZJ-WAJ-140+DS-1253ZJ-L	Corner Mounting DS-1276ZJ-SUS+DS-2200ZJ-WA-140+DS-1253ZJ-L	Corner Mounting DS-1276ZJ-SUS+DS-2200ZJ-WA-140+DS-1280ZJ-PT6
				
Corner Mounting DS-1276ZJ-SUS+DS-1273ZJ-140B+DS-1253ZJ-L	Corner Mounting DS-1276ZJ-SUS+DS-1273ZJ-140+DS-1253ZJ-L	Corner Mounting DS-1276ZJ-SUS+DS-2200ZJ-WA-140	Corner Mounting DS-1276ZJ-SUS+DS-2280ZJ-WA140	



See Far, Go Further

www.hikvision.com
support@hikvision.com

© Hangzhou Hikvision Digital Technology Co., Ltd. Unless otherwise agreed, Hikvision makes no warranties, express or implied. We reserve the right to introduce modifications without notice.

HIKVISION®