

DS-2CD2H83G2-IZS 8 MP AcuSense Motorized Varifocal Turret Network Camera

AcuSense















Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- High quality imaging with 8 MP resolution
- Motorized varifocal lens for easy installation and monitoring
- Efficient H.265+ compression technology
- Clear imaging against strong backlight due to 120 dB true WDR technology
- Focus on human and vehicle targets classification based on deep learning
- Audio and alarm interface available
- Water and dust resistant (IP67) and vandal-resistant (IK10)





Specification

Camera			
Image Sensor	1/2.8" Progressive Scan CMOS		
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR		
Shutter Speed	1/3 s to 1/100,000 s		
Slow Shutter	Yes		
P/N	P/N		
Wide Dynamic Range	120 dB		
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 108° to 30°, vertical FOV 56° to 17°, diagonal FOV 131° to 35°		
Lens Mount	Ø14		
Iris Type	Fixed		
Aperture	F1.6		
DORI			
DORI	2.8 to 12 mm: D: 97 m to 290 m, O: 38 m to 115 m, R: 19 m to 58 m, I: 9 m to 29 m		
Illuminator			
Supplement Light Type	IR		
Smart Supplement Light	Yes		
IR Wavelength	850 nm		
IR Range	Up to 40 m		
Video			
Max. Resolution	3840 × 2160		
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 (640 × 480, 640 × 360) 60 Hz: 30 fps (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		
H.264+	Main stream supports		
H.265+	Main stream supports		
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Scalable Video Coding (SVC) H.264 and H.265 encoding Region of Interest (ROI) 1 fixed region for main stream and sub-stream Audio Compression G.711ulaw/G.711alaw/J.6.722.1/G.726/MP2L2/PCM/MP3/AAC Audio Sampling Rate 64 kbps (G.711ulaw/G.711alaw)/J.6 kbps (G.722.1/J.6 kbps (G.726)/J.6 kbps to 64kbps (AAC)/32 to 192 kbps (MP2L2)/8 to 320 kbps (MP3) Audio Sampling Rate 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering Yes Network TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, ICMP, 802.1X, Qos, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SMMP Simultaneous Live View Up to 6 channels API Open Network Video Interface (Profile S, Profile G), ISAPI, SDK User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, Security Security Audit tog, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for PDPN Network Video Interface Network Storage NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Client INMS-4200, Hik-Connect, Hik-Central Plug-in required live view: Chrome 57.0+, Firefox 52.0+ Image Profile (S) NR Image Parameters Switch Yes	Bit Rate Control	CBR/VBR		
Audio Audio Compression G.71ulaw/G.711alaw/G.721.1/3C.726/MP2L2/PCM/MP3/AAC Audio Bit Rate 64 kbps (G.711ulaw/G.711alaw)/16 kbps (G.722.1/16 kbps (G.726)/16 kbps to 64kbps (AAC)/32 to 192 kbps (MP2L2)/8 to 320 kbps (MP3) Audio Sampling Rate 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering Yes Network TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPOE, SMMP Simultaneous Live View Up to 6 channels API Open Network Video Interface (Profile S, Profile G), ISAPI, SDK User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS.1.1/1.2, WSSE and digest authentication for Open Network Video Interface Network Storage NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Client IVMS-4200, Hik-Connect, Hik-Central Web Browser Plug-in required live view: IE 10, IE 10 Image Parameters Switch Yes Image Parameters Switch Yes Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BIC, HLC, 3D DNR	Scalable Video Coding (SVC)	H.264 and H.265 encoding		
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User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, Security Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface Network Storage NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Client IVMS-4200, Hik-Connect, Hik-Central Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view: E 10, IE 11 Image Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Image Parameters Switch Yes Image Settings Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB Audio 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium Alarm	Simultaneous Live View	Up to 6 channels		
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Network Storage NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Client iVMS-4200, Hik-Connect, Hik-Central Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view: Chrome 57.0+, Firefox 52.0+		Password protection, complicated password, HTTPS encryption, IP address filter,		
Network Storage NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Client iVMS-4200, Hik-Connect, Hik-Central Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view: Chrome 57.0+, Firefox 52.0+	Security	Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE		
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Local service: Chrome 57.0+, Firefox 52.0+ Image Image Parameters Switch Yes Image Settings Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB 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, 500 mA) Hardware Reset Yes Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception		Plug-in required live view: IE 10, IE 11		
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Image Settings Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB 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, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Image			
Image Settings balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB 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, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Image Parameters Switch	Yes		
balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB 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, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Imaga Cattings	Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white		
Image EnhancementBLC, HLC, 3D DNRSNR≥ 52 dBInterface1 RJ45 10 M/100 M self-adaptive Ethernet portOn-board StorageBuilt-in memory card slot, support micro SD card, up to 256 GBAudio1 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-equilibriumAlarm1 input, 1 output (max. 24 VDC/24 VAC, 500 mA)Hardware ResetYesEventMotion detection (human and vehicle targets classification), video tampering alarm, exception	image settings	balance adjustable by client software or web browser		
SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB 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, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Day/Night Switch	Day, Night, Auto, Schedule		
Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB 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, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Image Enhancement	BLC, HLC, 3D DNR		
Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB 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, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	SNR	≥ 52 dB		
On-board Storage Built-in memory card slot, support micro SD card, up to 256 GB 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: $4.7 \text{ K}\Omega$, interface type: non-equilibrium 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp , output impedance: 100Ω , interface type: non-equilibrium Alarm 1 input, 1 output (max. $24 \text{ VDC}/24 \text{ VAC}$, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Interface			
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, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port		
Audio	On-board Storage	Built-in memory card slot, support micro SD card, up to 256 GB		
Audio 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, 500 mA) Hardware Reset Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception		1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input		
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, 500 mA) Hardware Reset Yes Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Audio	impedance: 4.7 K Ω , interface type: non-equilibrium		
Alarm 1 input, 1 output (max. 24 VDC/24 VAC, 500 mA) Hardware Reset Yes Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Addio	1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output		
Hardware Reset Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception		impedance: 100 Ω , interface type: non-equilibrium		
Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Alarm	1 input, 1 output (max. 24 VDC/24 VAC, 500 mA)		
Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception	Hardware Reset	Yes		
Basic Event exception	Event			
Face Detection Yes	Basic Event			
	Face Detection	Yes		



Deep Learning Function			
Perimeter Protection	Line crossing detection, intrusion detection		
Perimeter Protection	Supports human and vehicle targets classification		
General			
Linkaga Mathad	Upload to FTP/memory card/NAS, notify surveillance center, trigger recording, trigger		
Linkage Method	capture, send email		
Camera Material	Aluminum alloy body		
Camera Dimension	Ø138.3 mm × 126 mm (Ø5.5" × 5.0")		
Package Dimension	216 mm × 121 mm × 118 mm (8.5" × 4.8" × 4.6")		
Camera Weight	Approx. 830 g (1.8 lb.)		
With Package Weight	Approx. 1160 g (2.6 lb.)		
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)		
Startup and Operating	20 °C to 60 °C / 22 °C to 140 °C). Humidity 0E0/ or loss (non-condensing)		
Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)		
	33 languages		
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,		
Web Client Language	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, heartbeat, password reset via email, pixel counter		
Firmware Version	V5.5.113		
Software Reset	Yes		
Power Consumption and Current	12 VDC, 0.92 A, max. 11.04 W		
Tower consumption and current	PoE (802.3af, 36 V to 57 V), 0.35 A to 0.22 A, max. 12.5 W		
Power Supply	12 VDC ± 25%, reverse polarity protection		
rower supply	PoE: 802.3af, Class 3		
Power Interface	Ø5.5 mm coaxial power plug		
Approval			
	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN		
EMC	61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC		
	(ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)		
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN		
	60950-1:2005 + Am 1:2009 + Am 2:2013)		
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)		

Available Model

DS-2CD2H83G2-IZS (2.8 to 12 mm)

Typical Application

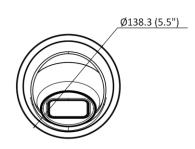
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

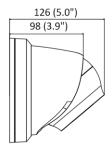
This model has NO SPECIFIC PROTECTION.

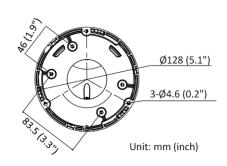


Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and
	more.
Moderate protection	Hikvision products at this level are equipped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

Dimension







Accessory

Optional

DS-1273ZJ-140	DS-1280ZJ-PT6	DS-1271ZJ-140
Wall Mount	Junction Box	Pendant Mount



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