

DS-2CD3646G2-IZS 4 MP AcuSense IR Varifocal Bullet Network Camera

AcuSense

Powered by

DarkFighter



Empowered by deep learning algorithms, Hikvision AcuSense technology brings human or vehicle target classification alarms to front- and back-end devices. The system can greatly reduce false alarms generated by targets other than humans or vehicles, vastly improving alarm efficiency and effectiveness.

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.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 60 MB system memory, 400 MB smart RAM, and 2 GB eMMC storage for sharing resources
- High quality imaging with 4 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Efficient H.265+ compression technology
- Clear imaging against strong backlight due to 120 dB true WDR technology
- False alarm reduction through human and vehicle target classification based on deep learning
- Audio and alarm interface available
- Motorized varifocal lens for easy installation
- Water and dust resistant (IP66) and vandal-resistant (IK10)

▪ Specification

Camera		
Image Sensor	5	1/3" Progressive Scan CMOS
Max. Resolution		2688 × 1520
Min. Illumination	4	Color: 0.003 Lux @ (F1.4, AGC ON), Black/White: 0 Lux with IR
Shutter Time		1/3 s to 1/100,000 s
Day & Night	3	IR cut filter
Angle Adjustment		Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°
Lens		
Lens Type		Varifocal lens, motorized lens, 2.7 to 13.5 mm
Focal Length & FOV	6	2.7 to 13.5 mm: horizontal FOV 107.6° to 32.9°, vertical FOV 56° to 18.5°, diagonal FOV 130.9° to 37.8° 7 to 35 mm: horizontal FOV 28.7° to 10.5°, vertical FOV 16° to 6°, diagonal FOV 33.1° to 12.1°
Lens Mount		2.7 to 13.5 mm: Ø14; 7 to 35 mm: Integrated
Focus		Auto, Semi-auto, Manual
Iris Type		Auto-iris
Aperture		2.7 to 13.5 mm: F1.4; 7 to 35 mm: F1.6
DORI		
DORI		2.7 to 13.5 mm: D: 64 to 187 m, O: 25 to 74 m, R: 12 to 37 m, I: 6 to 18 m 7 to 35 mm: D: 218 to 580 m, O: 86 to 230 m, R: 43 to 116 m, I: 21 to 58 m
Illuminator		
Supplement Light Type		IR
Supplement Light Range		2.7 to 13.5 mm: up to 60 m; 7 to 35 mm: up to 80 m
Smart Supplement Light		Yes
IR Wavelength		850 nm
HEOP		
Open Resources		Memory: 60 MB, Smart RAM: 400 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	1,2	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 50 Hz: 50 fps (1920 × 1080) 60 Hz: 30 fps (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)
Fourth Stream		50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)

Video Compression	10,12	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 8 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 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/44.1 kHz/48 kHz
Environment Noise Filtering		Yes
Network		
Protocols	17	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, IEEE 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP, WebSocket, WebSockets, SRTP 13
Simultaneous Live View		Up to 6 channels
API	11	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
User/Host		Up to 32 users 19 3 user levels: administrator, operator, and user
Security		Password protection, complicated password, HTTPS encryption, IEEE 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), 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 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
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)	9	120 dB
Image Enhancement		BLC, HLC, 3D DNR, Defog
SNR		≥ 52 dB

Privacy Mask		4 programmable polygon privacy masks
Interface		
Ethernet Interface	16	1 RJ45 10 M/100 M Base-T self-adaptive Ethernet port
On-Board Storage	18	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Audio		1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , interface type: non-equilibrium 1 output (line out), 3.5 mm connector, 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	7	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, unattended baggage detection, object removal detection 8.3
Linkage		Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning
Deep Learning Function		
Perimeter Protection	8.2 8.1	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
Face Capture		Yes
People Counting		Yes
General		
Power	16	12 VDC $\pm$ 25%, 1.08 A, max. 13 W, two-core terminal block, reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 15 W
Material		Aluminum alloy body
Dimension		$\varnothing$ 144 mm $\times$ 332.1 mm ($\varnothing$ 5.7" $\times$ 13.1")
Package Dimension		385 mm $\times$ 190 mm $\times$ 180 mm (15.2" $\times$ 7.5" $\times$ 7.1")
Weight		Approx. 1435 g (3.2 lb.)
With Package Weight		Approx. 2576 g (5.7 lb.)
Storage Conditions		-30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	15	-30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
General Function		Heartbeat, anti-banding, mirror, flash log, password reset via email, pixel counter
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
Approval		
EMC		CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015

Safety	20	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, LOA: IEC/EN 60950-1
Environment		CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	14	IP66: 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.

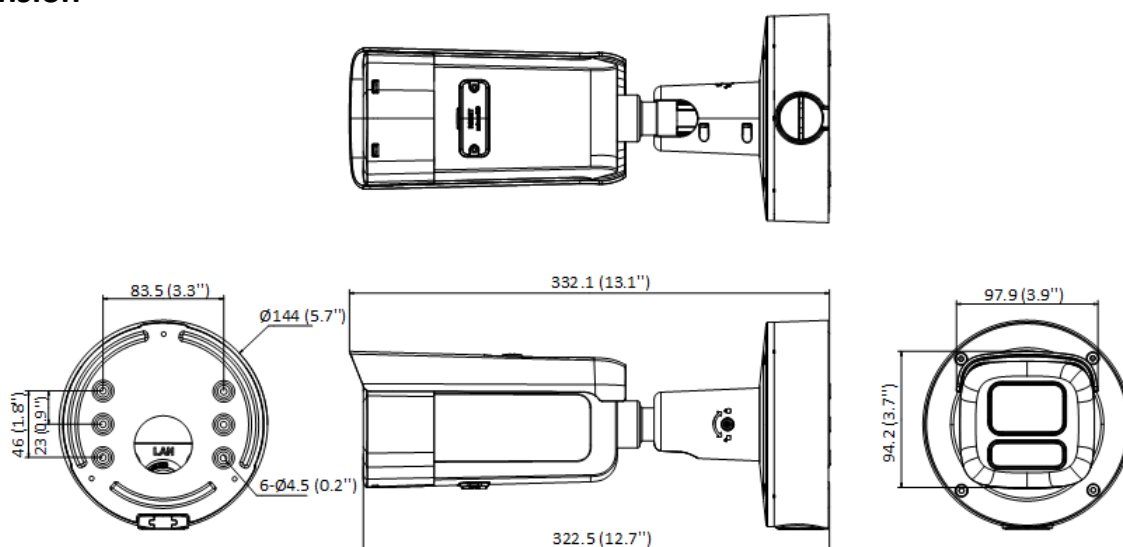
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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-2CD3646G2-IZS(2.7-13.5mm)(H)

DS-2CD3646G2-IZS(7-35mm)(H)

▪ **Dimension**



▪ **Accessory**

▪ **Optional**

DS-1475ZJ-SUS Vertical pole mount	DS-1476ZJ-SUS Corner mount	DS-1275ZJ-S-SUS Vertical pole mount
		

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