

DS-2CD3646G2T-IZS(Y)

4 MP AcuSense IR Varifocal Bullet 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.

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 back light due to 140 dB true WDR technology
- False alarm reduction through human and vehicle target classification based on deep learning
- Audio and alarm interface available
- 3D DNR technology delivers clean and sharp images
- Motorized varifocal lens for easy installation
- Water and dust resistant (IP67) and vandal-resistant (IK10)



Specification

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Camera			
Image Sensor	1/3" Progressive Scan CMOS		
Max. Resolution	2688 × 1520		
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON),B/W: 0 Lux with IR		
Shutter Time	1/3 s to 1/100,000 s		
Day & Night	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 and 7 to 35 mm optional		
Focal Length & FOV	2.7 to 13.5 mm: horizontal FOV 107.6° to 32.9°, vertical FOV56° 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			
	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		
DORI	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			
	Memory: 60 MB,		
Open Resources	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	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 1920 × 1080 50fps		
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) 1920 × 1080 20fps		
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		
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Video Bit Rate	32 Kbps to 8 Mbps		
H.264 Type	Baseline Profile, Main Profile, High Profile		
H.265 Type			
Bit Rate Control	Main Profile		
	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		
EIS	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/44.1 kHz/48 kHz		
Environment Noise Filtering	Yes		
Network			
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,		
Protocols	IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP,		
	WebSocket, WebSockets, SRTP		
Simultaneous Live View	Up to 6 channels		
API	ONVIF (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP		
User/Host	Up to 32 users		
0361/11031	3 user levels: administrator, operator, and user		
	Password protection, complicated password, HTTPS encryption, 802.1X authentication		
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest		
Security	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)		
	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),		
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health		
-	detection are supported.		
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+, Edge 89+,		
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+		
Image			
Image Parameters Switch	Yes		
	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable		
Image Settings	by client software or web browser		
Day/Night Switch	Day,Night,Auto,Schedule		
Wide Dynamic Range (WDR)	140 dB		
Image Enhancement	BLC,HLC,3D DNR,Defog		
SNR	≥ 52 dB		
Privacy Mask	4 programmable polygon privacy masks		
Interface	, C		
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		
on board storage	Built-in memory card slot, support microsp/microspac card, up to 512 GB		



Audio	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , 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	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)		
Reset Key	Yes		
Power Output	12 VDC, max. 100 mA		
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, unattended baggage detection, object removal detection, Loitering Detection, People Gathering Detection, Fast Moving Detection, Parking Detection		
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	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)		
Face Capture	Yes(gets face features)		
People Counting	Yes		
Heat Map	Yes		
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection		
General			
Power	12 VDC ± 25%, 1.08 A, max. 13 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 15 W		
Material	Aluminum alloy body		
Dimension	Ø105 mm × 332.8 mm (Ø4.1" × 13.1")		
Package Dimension	385 mm × 190 mm × 180 mm (15.2" × 7.5" × 7.1")		
Weight	Approx. 1330 g (2.9 lb.)		
With Package Weight	Approx. 2176 g (4.8 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 65°C (-22 °F to 140 °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	FCC: 47 CFR Part 15, Subpart B,
	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	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	IP67: IEC 60529-2013,IK10: IEC 62262:2002
Anti-Corrosion Protection	-Y: 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	
	Hikvision products at this level are equipped for use in areas	
Top lovel protection	where professional anti-corrosion protection is a must.	
Top-level protection	Typical application scenarios include coastlines, docks,	
	chemical plants, and more.	
	Hikvision products at this level are equipped for use in areas	
	with moderate anti-corrosion demands. Typical application	
Moderate protection	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	
No specific protection	where no specific anti-corrosion protection is needed.	

Available Model

DS-2CD3646G2T-IZS(2.7-13.5mm)(H)

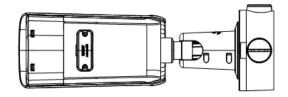
DS-2CD3646G2T-IZS(7-35mm)(H)

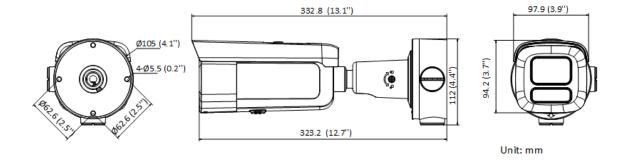
DS-2CD3646G2T-IZSY(7-35mm)(H)

DS-2CD3646G2T-IZSY(2.7-13.5mm)(H)



Dimension





- Accessory
- Included



Optional

DS-1275ZJ-SUS	DS-1276ZJ-SUS	DS-1275ZJ-S-SUS
Vertical pole mount	Corner mount	Vertical pole mount
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