

# DS-2CD3646G2T-IZS(Y) 4 MP AcuSense IR Varifocal Bullet Network Camera

### **Acu**Sense

















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.

- 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 120 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

Image Sensor  Max. Resolution  Min. Illumination  Shutter Time	1/3" Progressive Scan CMOS 2688 × 1520 Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR 1/3 s to 1/100,000 s				
Min. Illumination Shutter Time	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				
Lens Mount	12.1°  2.7 to 13.5 mm: Ø14  7 to 35 mm: Integrated				
Iris Type	Auto-iris				
Aperture	2.7 to 13.5 mm: F1.4 7 to 35 mm:F 1.6				
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				
НЕОР					
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	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 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)				



	Main stroom: U 265/U 264/U 264 /U 265 I				
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,				
Video Bit Rate	Fourth stream: H.265/H.264/MJPEG				
	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				
Addio bit Nate	(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				
/	Up to 32 users				
User/Host	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				
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)	120 dB				
Image Enhancement	BLC, HLC, 3D DNR, Defog				
SNR	≥ 52 dB				
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Privacy Mask	4 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				
	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input				
	impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,				
Audio	1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output				
	impedance: $100 \Omega$ , 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					
	Motion detection (support alarm triggering by specified target types (human and				
Basic Event	vehicle)), video tampering alarm, exception				
	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Smart Event	detection (support alarm triggered by specified target types (human and vehicle)),				
	scene change detection, audio exception detection, defocus detection				
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm				
Linkage	output, trigger recording, trigger capture, audible warning				
Deep Learning Function					
Face Capture	Yes				
People Counting	Yes				
General					
	12 VDC ± 25%, 1.08 A, max. 13 W, Ø5.5 mm coaxial power plug, reverse polarity				
Power	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 60 °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				
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian				
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish				
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese				
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian				
Approval					
	FCC: 47 CFR Part 15, Subpart B,				
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,				



	UL: UL 62368-1,		
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		
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		
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-2CD3646G2T-IZS (2.7 to 13.5 mm)(H)

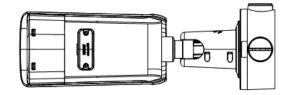
DS-2CD3646G2T-IZS (7 to 35 mm)(H)

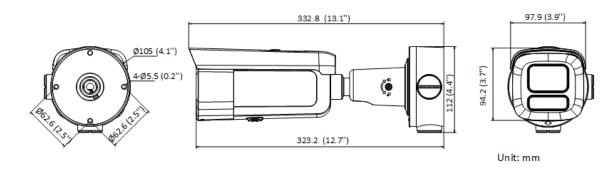
DS-2CD3646G2T-IZSY (7 to 35 mm)(H)

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



#### Dimension





- Accessory
- Included



#### Optional

DS-1275ZJ-Y	DS-1276ZJ-SUS	DS-1275ZJ-S-SUS	DS-1275ZJ-SUS
Vertical pole mount	Corner Mount	Vertical Pole Mount	Vertical Pole Mount
		B	

\*Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y and -AC bracket models).

#### Headquarters

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