DS-2CD3646G2/P-IZS
4 MP ANPR Motorized Varifocal Bullet Network Camera

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.

- High quality imaging with 4 MP resolution

- Excellent low-light performance with powered-by-DarkFighter technology

- Clear imaging against strong backlight due to 120 dB true WDR technology

- Efficient H.265+ compression technology

- License Plate Recognition

- Support Wiegand (26 bit & 34 bit)

- 3D DNR technology delivers clean and sharp images

- Water and dust resistant (IP67) and vandal-resistant (IK10)

▪ Function

Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

▪ Specification

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	0.003 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter Time	1/3 s to 1/100,000 s
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Focal Length ＆ FOV	2.8 to 12 mm, horizontal FOV 107.6° to 30.3°, vertical FOV 56° to 17.1°, diagonal FOV 130.9° to 34.8°
Lens Mount	Ø14
Aperture	F1.4
DORI	
DORI	D: 64 m to 200 m, O: 25.4 m to 79.4 m, R: 12.8 m to 40 m, I: 6.4 m to 20 m
Illuminator	
Supplement Light Range	Up to 60 m Under road traffic mode: up to 8 m
Supplement Light Type	IR
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360, 320 × 240) 60 Hz: 30 fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50 Hz: 15 fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240) 60 Hz: 15 fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240)
Fourth Stream	50 Hz: 15 fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240) 60 Hz: 15 fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240) *Fourth 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 Fourth stream: H.265/H.264/MJPEG *Fourth stream is supported under certain settings.
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.265 and H.264 support
Region of Interest (ROI)	5 fixed regions for main stream and sub-stream
Target Cropping	Yes
Network	
Protocols	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, SNMP
Simultaneous Live View	Up to 6 channels

API	Open Network Video Interface (PROFILE S, PROFILE G), ISAPI, SDK, ISUP
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 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 11 Plug-in free live view : Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
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
Interface	
Video Output	1 Vp-p Composite Output (75Ω/CVBS)
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB
Alarm	1 input, 1 output (max. 24 VDC, 1 A; 24 VAC, 1 A)
Reset Key	Yes
Wiegand	1 wiegand (26 bit & 34 bit)
Event	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Smart Event	Unattended baggage detection, object removal detection, scene change detection
Linkage	Upload to FTP/NAS/memory card, send email, notify surveillance center, trigger recording, trigger capture
Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
Road Traffic and Vehicle Detection	Supports vehicle detection with speed ≤ 40 km; Supports vehicle detection (only in single lane entrance & exit scenario); Supports two license plate recognition modes: License Plate & Vehichle and Vehicle Priority; Blocklist and allowlist: up to 10, 000 records; Captures vehicle that has no license plate; Supports three wigand protocols: CardID 26 bit, SHA-1 26 bit, and Hik 34 bit
General	
Power	12 VDC ± 25%, 1.08 A, max. 13 W, Ø5.5 mm coaxial power plug PoE: IEEE 802.3at, Class 4, 42.5 V to 57 V, 0.36 A to 0.27 A, max. 15 W
Material	Aluminum alloy body
Dimension	Ø105 mm × 340.9 mm (Ø4.2" × 13.5")

Package Dimension	385 mm × 190 mm × 180 mm (15.2" × 7.5" × 7.1")
Weight	Approx. 1300 g (2.9 lb.)
With Package Weight	Approx. 2100 g (4.6 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	Anti-banding, heartbeat, mirror, privacy mask, flash log, password reset via e-mail, 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 SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (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, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529-2013)

▪ 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.
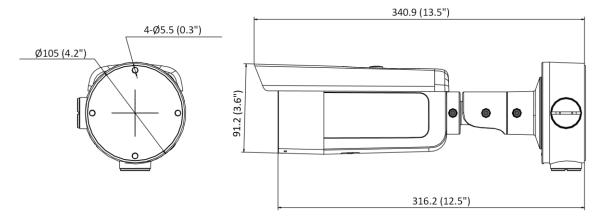
This model has NO SPECIFIC PROTECTION.

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/P-IZS(2.8-12mm)

▪**Dimension**

4-Ø5.5 (0.3")
Ø105 (4.2")
340.9 (13.5")
91.2 (3.6")
316.2 (12.5")

Unit: mm (inch)

▪ **Accessory**

▪**Included**

DS-1260ZJ Junction box

▪**Optional**

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

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