

DS-2CD2646G2T-IZSY

4 MP AcuSense Powered-by-DarkFighter Motorized Varifocal Bullet Network Camera



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 4 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Motorized varifocal lens for easy installation and monitoring
- Clear imaging against strong backlight due to 120 dB true WDR technology
- Efficient H.265+ compression 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)
- Anti-corrosion design, providing reliability and longevity compared to standard (NEMA4X)



▪ Specification

| Camera | |
|-----------------------------|---|
| Image Sensor | 1/3" Progressive Scan CMOS |
| Min. Illumination | Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR |
| Max. Resolution | 2688 × 1520 |
| Day & Night | IR cut filter |
| Shutter Time | 1/3 s to 1/100,000 s |
| Angle Adjustment | Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360° |
| Lens | |
| Focal Length & FOV | 2.8 to 12 mm, horizontal FOV 108° to 30°, vertical FOV 56° to 17°, diagonal FOV 131° to 35° |
| Lens Type | Varifocal lens, motorized lens, 2.8 to 12 mm |
| Focus | Auto, semi-auto, manual |
| Aperture | F1.4 |
| Lens Mount | Ø14 |
| Iris Type | Fixed |
| DORI | |
| DORI | 2.8 to 12 mm: Wide: D: 64.0 m, O: 25.4 m, R: 12.8 m, I: 6.4 m Tele: D: 190 m, O: 75.4 m, R: 38.0 m, I: 19.0 m |
| Illuminator | |
| IR Wavelength | 850 nm |
| Supplement Light Range | Up to 60 m |
| Smart Supplement Light | Yes |
| Supplement Light Type | IR |
| 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), *Third stream is supported under certain settings. |
| Video Compression | Main stream: H.265/H.264/H.265+/H.264+, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264 |
| 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) | 1 fixed region for main stream and sub-stream |
| Audio | |
| Environment Noise Filtering | Yes |
| Audio Sampling Rate | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz |

| | |
|--------------------------|--|
| 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) |
| 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, ARP, WebSocket, WebSockets |
| Simultaneous Live View | Up to 6 channels |
| API | Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK |
| 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 1.1/1.2, WSSE and digest authentication for Open Network Video Interface |
| 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 | |
| Wide Dynamic Range (WDR) | 120 dB |
| SNR | ≥ 52 dB |
| Privacy Mask | 4 programmable polygon privacy masks |
| Day/Night Switch | Day, Night, Auto, Schedule |
| Image Enhancement | BLC, HLC, 3D DNR |
| Image Parameters Switch | Yes |
| Image Settings | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser |
| Interface | |
| Alarm | 1 input, 1 output (max. 24 VDC, 1 A) |
| 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 |
| 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 |
| Reset Key | Yes |
| Event | |
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception |
| Smart Event | Line crossing detection, intrusion detection, region entrance detection, region exiting detection, scene change detection |

| | |
|----------------------------------|---|
| Linkage | Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email, audible warning |
| Deep Learning Function | |
| Face Capture | Yes |
| General | |
| Power | 12 VDC \pm 25%, 1.08 A, max. 13 W, \varnothing 5.5 mm coaxial power plug, reverse polarity protection, PoE: 802.3at, Class 4, 42.5 V to 57 V, 0.36 A to 0.27 A, max. 15 W |
| Material | ADC12 |
| Dimension | 105 mm \times 105 mm \times 297.9 mm (4.1" \times 4.1" \times 11.7") |
| Package Dimension | 385 mm \times 190 mm \times 180 mm (15.2" \times 7.5" \times 7.1") |
| Weight | Approx. 1355 g (3 lb.) |
| With Package Weight | Approx. 2011 g (4.4 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) |
| Web Client 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 |
| General Function | Heartbeat, anti-flicker, mirror, flash log, password reset via email, pixel counter, privacy mask |
| 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 |
| Safety | UL: UL 62368-1, CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017, 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 | NEMA 4X (NEMA 250-2018) |

▪ Available Model

DS-2CD2646G2T-IZSY (2.8 to 12 mm)

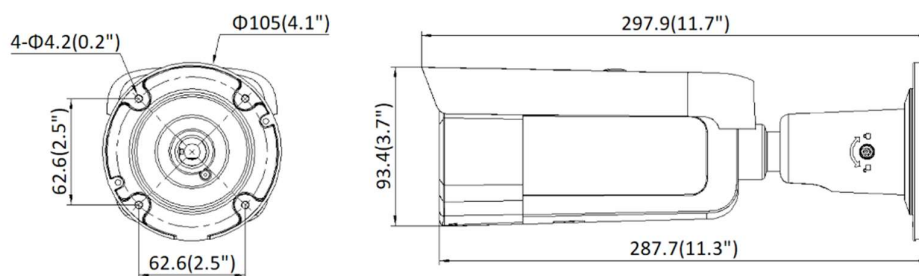
▪ Typical Application

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 MODERATE 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



Unit: mm (inch)

Accessory

Optional

| DS-1275ZJ-S-SUS Vertical Pole Mount | DS-1260ZJ-AC Junction Box | DS-1276ZJ-SUS Corner Mount |
|---|---|---|
|  |  |  |

Distributed by

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