

## DS-2CD2646G2-IZS

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
- Clear imaging against strong backlight due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Audio and alarm interface available
- Focus on human and vehicle targets classification based on deep learning
- Water and dust resistant (IP66) and vandal-resistant (IK10)

## ▪ Specification

| 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, motor-driven lens, 2.8 to 12 mm                                                                                                                                      |
| Focal Length & FOV          | 2.8 to 12 mm, horizontal FOV 108° to 30°, vertical FOV 56° to 17°, diagonal FOV 131° to 35°                                                                                          |
| Lens Mount                  | Ø14                                                                                                                                                                                  |
| Iris Type                   | Fixed                                                                                                                                                                                |
| Aperture                    | F1.4                                                                                                                                                                                 |
| DORI                        |                                                                                                                                                                                      |
| DORI                        | 2.8 to 12 mm:<br>Wide: D: 64.0 m, O: 25.4 m, R: 12.8 m, I: 6.4 m<br>Tele: D: 190 m, O: 75.4 m, R: 38.0 m, I: 19.0 m                                                                  |
| Illuminator                 |                                                                                                                                                                                      |
| Supplement Light Type       | IR                                                                                                                                                                                   |
| Supplement Light Range      | Up to 60 m                                                                                                                                                                           |
| Smart Supplement Light      | Yes                                                                                                                                                                                  |
| IR Wavelength               | Yes                                                                                                                                                                                  |
| Video                       |                                                                                                                                                                                      |
| Main Stream                 | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)                                                                         |
| Sub-Stream                  | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)                                                                                 |
| Third Stream                | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings. |
| Video Compression           | Main stream: H.265/H.264/H.265+/H.264+<br>Sub-stream: H.265/H.264/MJPEG<br>Third stream: H.265/H.264<br>*Third 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.264 and H.265 encoding                                                                                                                                                             |
| Region of Interest (ROI)    | 1 fixed region for main stream and sub-stream                                                                                                                                        |
| Audio                       |                                                                                                                                                                                      |
| Audio Type                  | Mono sound                                                                                                                                                                           |
| 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                                                                                                                                                                                                                                                              |
| <b>Network</b>              |                                                                                                                                                                                                                                                                  |
| 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                         | ONVIF (Profile S, Profile G, Profile T), ISAPI, ISUP, 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,<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+,<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+                                                                                              |
| <b>Image</b>                |                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                           |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                          |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                 |
| <b>Interface</b>            |                                                                                                                                                                                                                                                                  |
| Ethernet Interface          | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                                                                    |
| On-Board Storage            | Built-in memory card slot, support microSD card, up to 512 GB                                                                                                                                                                                                    |
| Audio                       | 1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium;<br>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                                                                                                                                                                                                                                                              |
| <b>Event</b>                |                                                                                                                                                                                                                                                                  |
| Basic Event                 | Motion detection (human and vehicle targets classification), video tampering alarm, exception                                                                                                                                                                    |
| Smart Event                 | Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggering by specified target types (human and vehicle))<br>Scene change detection                                                             |

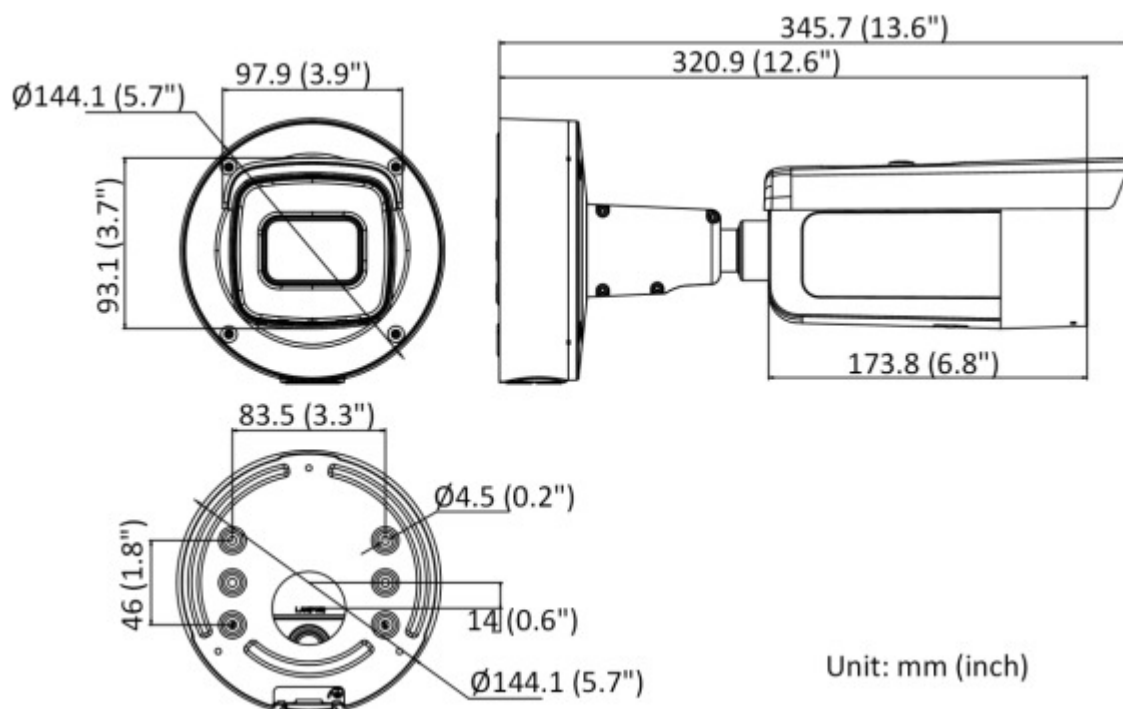
|                                  |                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Linkage                          | Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning                                                                                                                                                                                                                              |
| <b>Deep Learning Function</b>    |                                                                                                                                                                                                                                                                                                                                                         |
| Face Capture                     | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                         |
| Power                            | 12 VDC $\pm$ 25%, 1.08 A, max. 13 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection<br>PoE: 802.3at, Class 4, 42.5 V to 57 V, 0.36 A to 0.27 A, max. 15 W                                                                                                                                                                         |
| Material                         | ADC12                                                                                                                                                                                                                                                                                                                                                   |
| Dimension                        | $\varnothing$ 144.1 mm $\times$ 345.7 mm ( $\varnothing$ 5.7" $\times$ 13.6")                                                                                                                                                                                                                                                                           |
| Package Dimension                | 385 mm $\times$ 190 mm $\times$ 180 mm (15.2" $\times$ 7.5" $\times$ 7.1")                                                                                                                                                                                                                                                                              |
| Weight                           | Approx. 1445 g (3.2 lb.)                                                                                                                                                                                                                                                                                                                                |
| With Package Weight              | Approx. 2571 g (5.7 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)                                                                                                                                                                                                                                                                               |
| Language                         | 33 languages<br>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                 | Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter                                                                                                                                                                                                                                                       |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                         |
| EMC                              | FCC (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); KC (KN 32: 2015, KN 35: 2015)                                                                                                                                                                |
| Safety                           | UL (UL 60950-1);<br>CB (IEC 60950-1: 2005 + Am 1: 2009 + Am 2: 2013);<br>CE-LVD (EN 60950-1: 2005 + Am 1: 2009 + Am 2: 2013);<br>LOA (IEC/EN 60950-1)                                                                                                                                                                                                   |
| Environment                      | CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)                                                                                                                                                                                                                                                                           |
| Protection                       | IK10: IEC 62262:2002, IP66: IEC 60529-2013                                                                                                                                                                                                                                                                                                              |

## ▪ Available Model

DS-2CD2646G2-IZS(2.8-12mm)(C)

DS-2CD2646G2-IZS(2.8-12mm)(C)(black)

## Dimension



## Accessory

### Optional

| DS-1475ZJ-SUS<br>Vertical pole mount                                                | DS-1476ZJ-SUS<br>Corner mount                                                       | DS-1275ZJ-S-SUS<br>Vertical pole mount                                                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
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