

**DS-2XE6646G0-LIZS(ADC)****Aluminum Alloy 4MP Explosion-Proof Vari-focal Bullet**

- Explosion-proof design: the camera has passed international ATEX & IECEx certifications, and can be used in gas and dust hazardous scenarios
- IP68 water resistant, preventing water ingress for outdoor use
- H.265+/H.265/H.264+/H.264 encoding: efficient compression technology saves storage space and reduces bandwidth requirements
- Vandal resistant (IK10)

## ▪ Specification

| Camera                  |                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor            | 1/2.7" Progressive Scan CMOS                                                                                                                       |
| Max. Resolution         | 2688 × 1520                                                                                                                                        |
| Min. Illumination       | Color: 0.005 Lux @ (F1.2, AGC ON), 0 Lux with light, B/W: 0.002 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR                                           |
| Shutter Time            | 1/3 s to 1/100,000 s                                                                                                                               |
| Day & Night             | IR cut filter                                                                                                                                      |
| Lens                    |                                                                                                                                                    |
| Focal Length & FOV      | 2.8 to 12 mm, horizontal FOV 95° to 31.3°, vertical FOV 50.9° to 17.6°, diagonal FOV 112.1° to 36.1°                                               |
| DORI                    |                                                                                                                                                    |
| DORI                    | 2.8 to 12 mm: D: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15                                                                                              |
| Illuminator             |                                                                                                                                                    |
| Supplement Light Type   | IR, White Light                                                                                                                                    |
| Supplement Light Range  | IR: up to 30 m<br>White Light: up to 30 m                                                                                                          |
| IR Wavelength           | 850 nm                                                                                                                                             |
| HEOP                    |                                                                                                                                                    |
| Open Resources          | Memory: 60 MB,<br>Smart RAM: 371 MB,<br>eMMC: 2 GB                                                                                                 |
| Computing Power         | 1.5 TOPS                                                                                                                                           |
| Open Capability         | HEOP 2.0 OpenDevSDK, Basic service, basic media capability, deep learning reasoning acceleration capability                                        |
| Deep Learning Structure | Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX                                                                                                     |
| Programming Language    | C                                                                                                                                                  |
| Video                   |                                                                                                                                                    |
| Main Stream             | 50 Hz : 25 fps ( 2688 × 1520 , 2560 × 1440 , 1920 × 1080 , 1280 × 720 )<br>60 Hz : 30 fps ( 2688 × 1520 , 2560 × 1440 , 1920 × 1080 , 1280 × 720 ) |
| Sub-Stream              | 50 Hz : 25 fps ( 704 × 576 , 640 × 480 )<br>60 Hz : 30 fps ( 704 × 480 , 640 × 480 )                                                               |
| Third Stream            | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)                     |
| Fourth Stream           | 50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)                                               |
| Video Compression       | Main stream: H.265/H.264,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264,<br>Fourth stream: H.265/H.264/MJPEG                      |
| 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)    | 5 fixed regions for main stream                                                                                                                                                                                                                                                |
| Target Cropping             | Yes                                                                                                                                                                                                                                                                            |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                |
| Audio Type                  | Mono sound                                                                                                                                                                                                                                                                     |
| Audio Compression           | G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC_LC/MP3                                                                                                                                                                                                                         |
| 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/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, SFTP, ARP, SNMP, WebSocket, WebSockets, RTCP                                                                                         |
| Simultaneous Live View      | Up to 20 channels                                                                                                                                                                                                                                                              |
| API                         | Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                               |
| User/Host                   | Up to 32 users. 3 user levels: administrator, operator and user                                                                                                                                                                                                                |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, TLS1.2                            |
| 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<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+<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, AGC, adjustable by client software or web browser                                                                                                                                               |
| Day/Night Switch            | Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger                                                                                                                                                                                                                       |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                                                                         |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                        |
| Image Enhancement           | BLC, HLC, 3D DNR, Distortion Correction                                                                                                                                                                                                                                        |
| <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/microSDHC/microSDXC card, up to 512 GB,<br>*You are recommended to purchase memory card together with the product if needed. After ordering, the memory card will be installed to product during manufacturing.                     |
| Audio                       | 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium,<br>1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium |
| Alarm                       | 1 input, 1 output (max. 24 VDC, 1 A)                                                                                                                                                                                                                                           |
| Power Output                | 12 VDC, max. 30 mA                                                                                                                                                                                                                                                             |

| Event                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Event                      | Motion detection (support alarm triggering by specified target types (human and vehicle)), 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, audio exception detection, defocus detection                                                                                                                                                                                                                                                                                                                                                 |
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning, white light flashing                                                                                                                                                                                                                                                                                                       |
| Deep Learning Function           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Perimeter Protection             | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle)                                                                                                                                                                                                                                                                                                                                          |
| General                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Power                            | 12 VDC $\pm$ 20%, 1.1 A, max. 13.2 W, 3-core terminal block,<br>PoE: 802.3at, Class 3, max. 15 W                                                                                                                                                                                                                                                                                                                                                                             |
| Material                         | Anodized ADC12                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Dimension                        | 245.0 mm $\times$ 195.4 mm $\times$ 184.3 mm (9.65" $\times$ 7.69" $\times$ 7.26")                                                                                                                                                                                                                                                                                                                                                                                           |
| Package Dimension                | 430 mm $\times$ 250 mm $\times$ 275 mm (16.93" $\times$ 9.84" $\times$ 10.83")                                                                                                                                                                                                                                                                                                                                                                                               |
| Weight                           | Approx. 3300 g (7.28 lb.)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| With Package Weight              | Approx. 4400 g (9.70 lb.)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Startup and Operating Conditions | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                            |
| 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                                                                                                                        |
| Cable Length                     | 1.3 m or 5 m (4.26 ft. or 16.40 ft.)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Approval                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EMC                              | CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,<br>RCM: AS/NZS CISPR 32: 2015,<br>IC: ICES-003: Issue 7,<br>KC: KN32: 2015, KN35: 2015, FCC: 47 CFR Part 15, Subpart B                                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                                                                                                                                           |
| Protection                       | IP68: IEC 60529-2013, IK10: IEC 62262:2002                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Explosion-Proof Protection       | ATEX: Ex II 2 G D Ex db IIC T6 Gb/Ex tb IIIC T80 $^{\circ}$ C Db IP68<br>IECEx: Ex db IIC T6 Gb/Ex tb IIIC T80 $^{\circ}$ C Db IP68<br>For explosive gas atmospheres, the maximum surface temperature is 85 $^{\circ}$ C;<br>For flammable dust atmospheres, the maximum surface temperature is 80 $^{\circ}$ C;<br>IIC: for explosive gas atmospheres other than mines susceptible to firedamp;<br>For explosive gas mixture atmospheres: Zone 1, Zone 2, Zone 21, Zone 22. |

## ▪ 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.

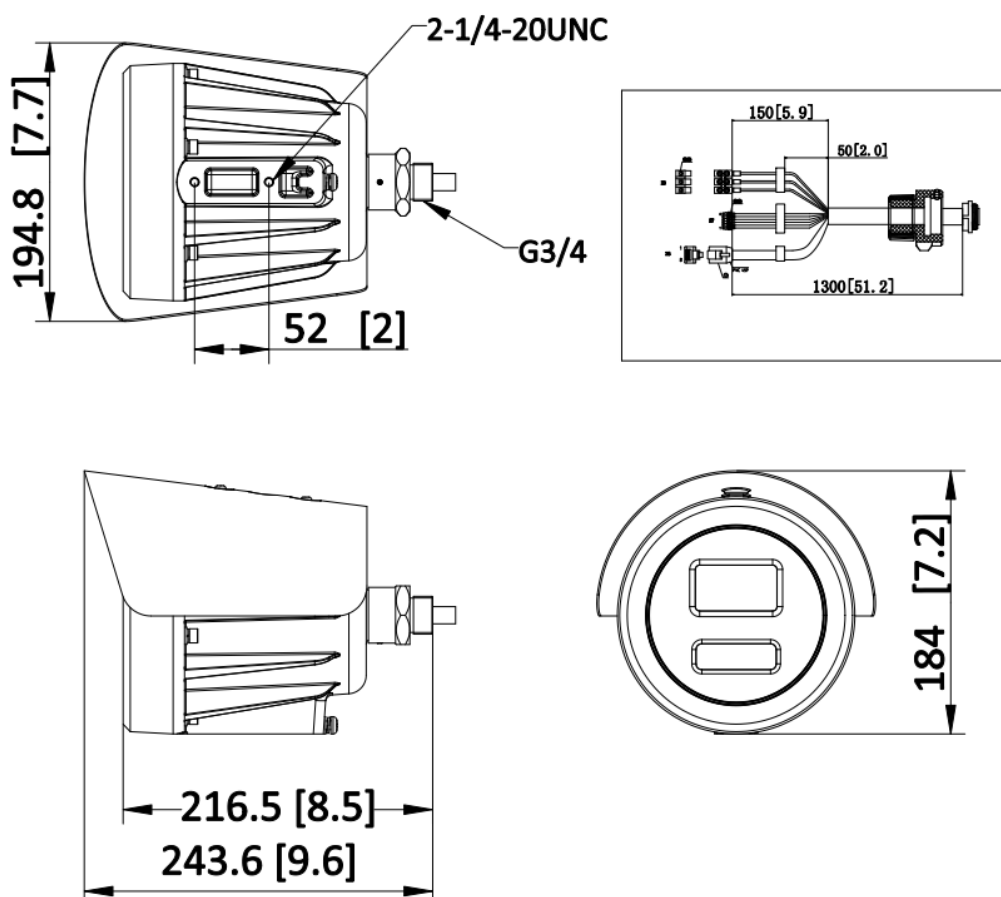
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2XE6646G0-LIZS(ADC)(2.8-12)1.3m

DS-2XE6646G0-LIZS(ADC)(2.8-12)5m

### ▪ Dimension



Unit: mm [inch]

|       |     |
|-------|-----|
| SCALE | 1:1 |
|-------|-----|

▪ **Accessory**

▪ **Optional**

| DS-2XE2702-M04(A<br>DC)                                                            |  | DS-1276ZJ-SUS                                                                      | DS-1275ZJ-SUS                                                                     | DS-1269ZJ-P-Y                                                                       | DS-1293ZJ-P-Y                                                                       |
|------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |  |   |  |  |  |
| DS-2XE2601-5(CS)                                                                   |  | DS-2XE2601-1(CS)                                                                   |                                                                                   |                                                                                     |                                                                                     |
|  |  |  |                                                                                   |                                                                                     |                                                                                     |

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