

## DS-2XE6442F-IZHRS(D) 316L 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
- 316L stainless steel enclosure and anti-corrosion spray treatment, protecting the camera from damage caused by sparks or corrosive materials
- 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
- AC 100 V to 240 V wide range power supply: easy to deploy cables and safer compared to a power adapter solution

## ▪ Specification

| Camera                      |                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/1.8" Progressive Scan CMOS                                                                                                                                                                             |
| Max. Resolution             | 2688 × 1520                                                                                                                                                                                              |
| Shutter Time                | 1/3 s to 1/100,000 s                                                                                                                                                                                     |
| Min. Illumination           | Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR                                                                                                                      |
| Day & Night                 | IR cut filter                                                                                                                                                                                            |
| Lens                        |                                                                                                                                                                                                          |
| Lens Type                   | Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional                                                                                                                                     |
| Focus                       | Auto, Semi-auto, Manual                                                                                                                                                                                  |
| Focal Length & FOV          | 2.8 to 12 mm, horizontal FOV 94° to 38°, vertical FOV 49.9° to 21.3°, diagonal FOV 112.3° to 43.7°<br>8 to 32 mm, horizontal FOV 42.2° to 15.1°, vertical FOV 23.4° to 8.6°, diagonal FOV 49.6° to 17.3° |
| Iris Type                   | Auto-iris                                                                                                                                                                                                |
| Aperture                    | 2.8 to 12 mm: F1.4<br>8 to 32 mm: F1.7                                                                                                                                                                   |
| DORI                        |                                                                                                                                                                                                          |
| DORI                        | 2.8 to 12 mm:<br>D: 44.1 to 151.7 m, O: 17.5 to 60.2 m, R: 8.8 to 30.3 m, I: 4.4 to 15.2 m<br>8 to 32 mm:<br>D: 150.3 to 400 m, O: 59.7 to 158.7 m, R: 30.1 to 80 m, I: 15 to 40 m                       |
| Illuminator                 |                                                                                                                                                                                                          |
| Supplement Light Type       | IR                                                                                                                                                                                                       |
| Supplement Light Range      | 2.8 to 12 mm: up to 80 m<br>8 to 32 mm: up to 150 m                                                                                                                                                      |
| Smart Supplement Light      | Yes                                                                                                                                                                                                      |
| IR Wavelength               | Up to 850 nm                                                                                                                                                                                             |
| Video                       |                                                                                                                                                                                                          |
| Main Stream                 | 50 Hz: 25 fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720)                                                                   |
| Sub-Stream                  | 50 Hz: 25 fps (640 × 480, 640 × 360, 320 × 240)<br>60 Hz: 30 fps (640 × 480, 640 × 360, 320 × 240)                                                                                                       |
| Third Stream                | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240)<br>60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240)                                                                               |
| 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                                                                                                     |
| 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                                                                                                                                                            |
| Target Cropping             | Yes                                                                                                                                                                                                      |

| 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.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)                                                                                                                                                              |
| Audio Type                  | Mono sound                                                                                                                                                                                                                                                |
| Network                     |                                                                                                                                                                                                                                                           |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                                          |
| API                         | Open Network Video Interface, ISAPI, SDK, ISUP                                                                                                                                                                                                            |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, SSL/TLS                                                                                                               |
| User/Host                   | Up to 32 users. 3 levels: administrator, operator and user                                                                                                                                                                                                |
| Network Storage             | NAS (NFS, SMB/CIFS), auto network replenishment (ANR)<br>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 8+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11<br>Plug-in free live view: Chrome 45.0+, Firefox 52.0+<br>Local service: Chrome 57.0+, Firefox 52.0+<br>Not recommended: Safari 11+, Edge                      |
| Image                       |                                                                                                                                                                                                                                                           |
| Image Settings              | Rotate mode, saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by client software or web browser                                                                                                                             |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                                                    |
| Picture Overlay             | LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format                                                                                                                                                                                    |
| Day/Night Switch            | Day, Night, Auto, Schedule                                                                                                                                                                                                                                |
| Image Enhancement           | BLC, HLC, 3D DNR, Defog                                                                                                                                                                                                                                   |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                       |
| SNR                         | ≥ 50 dB                                                                                                                                                                                                                                                   |
| Privacy Mask                | 8 programmable polygon privacy masks                                                                                                                                                                                                                      |
| Interface                   |                                                                                                                                                                                                                                                           |
| Video Output                | 1 Vp-p Composite Output (75 Ω/BNC)                                                                                                                                                                                                                        |
| 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 256 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), 1 output (line out)                                                                                                                                                                                                                    |
| Alarm                       | 2 inputs, 2 outputs (max. 24 VDC, 1 A or 110 VAC, 500 mA)                                                                                                                                                                                                 |
| Event                       |                                                                                                                                                                                                                                                           |
| Basic Event                 | Motion detection (support alarm triggered by specified target types (human and vehicle)), video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)                                                |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Event                      | Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle))<br>Scene change detection, audio exception detection                                                                                                                                                                                                        |
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture                                                                                                                                                                                                                                                                                                       |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power                            | 100 VAC to 240 VAC, 0.38 A to 0.18 A, max. 22.6 W, three-core terminal block<br>PoE: IEEE 802.3at, 42.5 V to 57 V, 0.56 A to 0.42 A, max. 23.6 W                                                                                                                                                                                                                                                                                      |
| Material                         | 316L + Anti-corrosion coating                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dimension                        | 513.2 mm × 169 mm × 308 mm (20.2" × 6.65" × 12.13")                                                                                                                                                                                                                                                                                                                                                                                   |
| Package Dimension                | 753 mm × 313 mm × 424 mm (29.65" × 12.32" × 16.69")                                                                                                                                                                                                                                                                                                                                                                                   |
| Weight                           | Approx. 17.42 kg (38.40 lb.)                                                                                                                                                                                                                                                                                                                                                                                                          |
| With Package Weight              | Approx. 19.80 kg (43.65 lb.)                                                                                                                                                                                                                                                                                                                                                                                                          |
| Storage Conditions               | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                             |
| Startup and Operating Conditions | -40 °C to 60 °C (-40 °F to 140 °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                                                                                 |
| Heater                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Wiper                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cable Length                     | 1.1 m (3.61 ft.)                                                                                                                                                                                                                                                                                                                                                                                                                      |
| General Function                 | Anti-banding, heartbeat, mirror, flash log, password reset via email, pixel counter                                                                                                                                                                                                                                                                                                                                                   |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EMC                              | FCC: FCC-SDoC (ANSI C63.4, FCC Part15 sub B)<br>CE: CE-EMC (EN 50130-4:2011+A1: 2014, EN 55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013)<br>IC: IC-VoC (ICES-003 Issue 7: 2020)<br>KC: KN 301489-1, KN 301489-17, RRA NOTICE 2017-14 (2017.12.05), RRA NOTICE 2017-19 (2017.12.28)                                                                                                                                                  |
| Safety                           | CB: IEC 60950-1<br>CE: CE-LVD (EN 60950-1:2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013)<br>LOA: SANS IEC60950-1                                                                                                                                                                                                                                                                                                                         |
| Environment                      | CE: CE-RoHS (RoHS Directive 2011/65/EU+2015/863)                                                                                                                                                                                                                                                                                                                                                                                      |
| Protection                       | IP68: IEC 60529-2013                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Explosion-Proof Protection       | ATEX: II 2 G Ex db op is IIC T6 Gb/ II 2D Ex tb op is IIIC T80°C Db<br>IECEx: Ex db IIC T6 Gb /Ex tb IIIC T80°C Db<br>For explosive gas atmospheres, the maximum surface temperature is 85°C;<br>For flammable dust atmospheres, the maximum surface temperature is 80°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. |
| Anti-Corrosion Protection        | NEMA 4X (NEMA 250-2018)                                                                                                                                                                                                                                                                                                                                                                                                               |

*\*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.*

## ▪ 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 TOP-LEVEL PROTECTION.

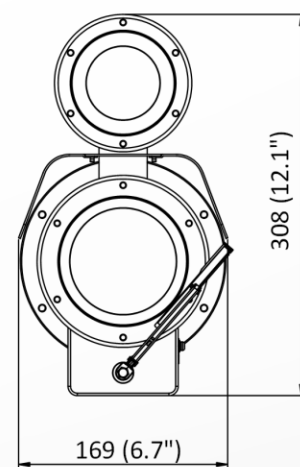
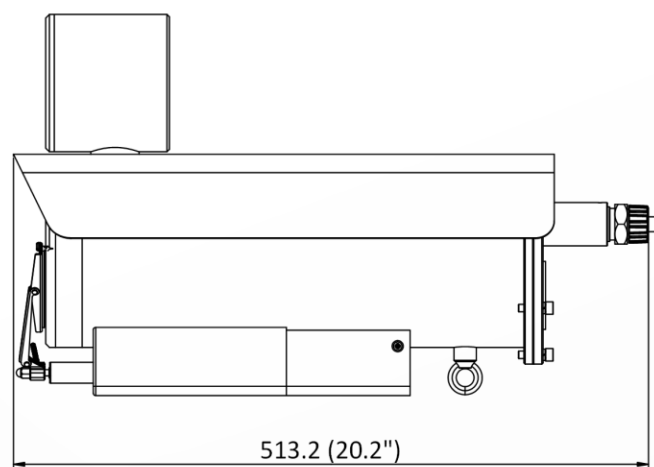
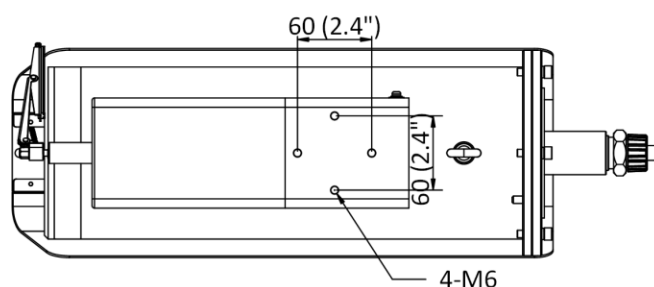
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2XE6442F-IZHRS(2.8-12mm)(D)

DS-2XE6442F-IZHRS(8-32mm)(D)

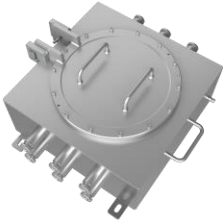
## ▪ Dimension



Unit: mm (inch)

## ▪ Accessory

## ▪ Optional

| DS-2XE2707CB-M1<br>2(316L)                                                        | DS-2XE2601-1-Y(SS<br>)                                                            | DS-1707ZJ-Y-AC(O<br>S)                                                            | DS-2XE2705-M04(3<br>16L)                                                           | DS-1751ZJ-AC(OS)                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |

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