

**DS-2DY7436IXG-CXLWF(316L)10m**  
**7-inch 4 MP 36 × DarkFighter Explosion Network Positioning System**



- Ex-mark: ATEX: Ex II 2GD Ex db IICT6 Gb /Ex tb IIICT80°C Db; IECEx: Ex db IICT6 Gb /Ex tb IIICT80°C Db
- 1/1.8" progressive scan CMOS
- Up to 2560 × 1440 @30 fps resolution
- Min. illumination: Color: 0.005 Lux @(F1.2, AGC ON) , B/W: 0.001 Lux @(F1.2, AGC ON) , 0 Lux with IR
- 36 × optical zoom, 16 × digital zoom
- 120 dB WDR, HLC, BLC, 3D DNR, Defog, EIS, Regional Exposure, Regional Focus
- Up to 200 m IR distance
- Support H.265+/H.265 video compression

## ▪ Specification

| Camera                 |                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/1.8" Progressive Scan CMOS                                                                                                                                                 |
| Max. Resolution        | 2560 × 1440                                                                                                                                                                  |
| Min. Illumination      | Color: 0.005 Lux @ (F1.2, AGC ON), B/W: 0.001 Lux @ (F1.2, AGC ON), 0 Lux with IR                                                                                            |
| Shutter Speed          | 1/1 s to 1/30000 s                                                                                                                                                           |
| Day & Night            | IR cut filter                                                                                                                                                                |
| Zoom                   | 36 × optical, 16 × digital                                                                                                                                                   |
| Slow Shutter           | Yes                                                                                                                                                                          |
| Lens                   |                                                                                                                                                                              |
| Focal Length           | 6.9 to 248.4 mm                                                                                                                                                              |
| FOV                    | Horizontal field of view: 60.2° to 2.5°, vertical field of view: 35.2° to 1.3°, diagonal field of view: 67.4° to 2.7°                                                        |
| Focus                  | Auto, semi-auto, manual                                                                                                                                                      |
| Aperture               | F1.2                                                                                                                                                                         |
| Zoom Speed             | Approx. 5.4 s                                                                                                                                                                |
| Illuminator            |                                                                                                                                                                              |
| Supplement Light Type  | IR                                                                                                                                                                           |
| Supplement Light Range | IR distance: up to 200 m                                                                                                                                                     |
| Smart Supplement Light | Yes                                                                                                                                                                          |
| IR Wavelength          | 850 nm                                                                                                                                                                       |
| PTZ                    |                                                                                                                                                                              |
| Movement Range (Pan)   | 360° endless                                                                                                                                                                 |
| Movement Range (Tilt)  | -90° to 90°                                                                                                                                                                  |
| Pan Speed              | Pan speed: configurable from 0.1° to 50°/s, preset speed: 50°/s                                                                                                              |
| Tilt Speed             | Tilt speed: configurable from 0.1° to 40°/s, preset speed 40°/s                                                                                                              |
| Proportional Pan       | Yes                                                                                                                                                                          |
| Presets                | 300                                                                                                                                                                          |
| Preset Freezing        | Yes                                                                                                                                                                          |
| Patrol Scan            | 8 patrols, up to 32 presets for each patrol                                                                                                                                  |
| Pattern Scan           | 4 pattern scans, record time over 10 minutes for each scan                                                                                                                   |
| Park Action            | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan                                                                              |
| 3D Positioning         | Yes                                                                                                                                                                          |
| PTZ Status Display     | Yes                                                                                                                                                                          |
| Scheduled Task         | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output                                        |
| Power-off Memory       | Yes                                                                                                                                                                          |
| Video                  |                                                                                                                                                                              |
| Main Stream            | 50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720),<br>60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)                                        |
| Sub-Stream             | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)                                                                           |
| Third Stream           | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) |

|                             |                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Compression           | Main stream: H.265+/H.265/H.264+/H.264,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264/MJPEG                                                                                                                                                                                                                                                                      |
| Video Bit Rate              | 32 Kbps to 16 Mbps                                                                                                                                                                                                                                                                                                                                                                |
| H.264 Type                  | Baseline profile, Main profile, High profile                                                                                                                                                                                                                                                                                                                                      |
| H.265 Type                  | Main profile                                                                                                                                                                                                                                                                                                                                                                      |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                                                                                                                                                                                                          |
| Region of Interest (ROI)    | 8 fixed regions for each stream                                                                                                                                                                                                                                                                                                                                                   |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                                                                                                                   |
| Audio Compression           | G.711, G.722.1, G.726, MP2L2, PCM                                                                                                                                                                                                                                                                                                                                                 |
| Audio Bit Rate              | 64 Kbps (G.711), 16 Kbps (G.722.1), 16 Kbps (G.726), 32 to 192 Kbps (MP2L2)                                                                                                                                                                                                                                                                                                       |
| Audio Sampling Rate         | 8 kHz, 16 kHz, 32 kHz, 48 kHz                                                                                                                                                                                                                                                                                                                                                     |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Network</b>              |                                                                                                                                                                                                                                                                                                                                                                                   |
| Protocols                   | IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour                                                                                                                                                                                                                                              |
| Simultaneous Live View      | Up to 20 channels                                                                                                                                                                                                                                                                                                                                                                 |
| API                         | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                                                                                                                                                         |
| Smooth Streaming            | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| User/Host                   | Up to 32 users. 3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                                                                                  |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2/1.3, host authentication (MAC address) |
| Network Storage             | NAS (NFS, SMB/CIFS), auto network replenishment (ANR)                                                                                                                                                                                                                                                                                                                             |
| Client                      | iVMS-4200, HikCentral Pro, Hik-Connect                                                                                                                                                                                                                                                                                                                                            |
| Web Browser                 | IE11, Chrome 57+, Firefox 52+, Safari 11+                                                                                                                                                                                                                                                                                                                                         |
| <b>AI Open Platform</b>     |                                                                                                                                                                                                                                                                                                                                                                                   |
| Model Specification         | Supported                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Image</b>                |                                                                                                                                                                                                                                                                                                                                                                                   |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| Image Settings              | Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser                                                                                                                                                                                                                                                                 |
| Day/Night Switch            | auto                                                                                                                                                                                                                                                                                                                                                                              |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                                                                                                                                                                            |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                                                           |
| Defog                       | Digital defog                                                                                                                                                                                                                                                                                                                                                                     |
| Image Stabilization         | EIS (Built-in gyroscope to improve EIS performance)                                                                                                                                                                                                                                                                                                                               |
| Image Enhancement           | HLC, BLC, 3D DNR                                                                                                                                                                                                                                                                                                                                                                  |
| Privacy Mask                | 24 programmable polygon privacy masks, mask color or mosaic configurable                                                                                                                                                                                                                                                                                                          |
| <b>Interface</b>            |                                                                                                                                                                                                                                                                                                                                                                                   |
| Ethernet Interface          | 1 RJ45 10/100M self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                                                        |
| On-board Storage            | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB                                                                                                                                                                                                                                                                                                 |
| Audio                       | 1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%,<br>1 output (line out), line level, output impedance: 600 Ω                                                                                                                                                                                                                                      |

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm                              | 7 input(s), 2 output(s)                                                                                                                                                                                                                                                                                                                                                                                                      |
| Fiber Optical                      | FC interface, built-in fiber module (100 M, TX1310/RX1550nm wavelength, single module fiber, up to 20 km transmission distance)                                                                                                                                                                                                                                                                                              |
| <b>Event</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Basic Event                        | Motion detection, video tampering alarm, exception, alarm input and output                                                                                                                                                                                                                                                                                                                                                   |
| Smart Event                        | Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection, support alarm triggering by specified target types (human and vehicle)                                                                                                                                                                 |
| Linkage                            | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, smart tracking, audible warning                                                                                                                                                                                                                                                                              |
| Smart Tracking                     | Manual tracking, auto-tracking                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Deep Learning Function</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Face Capture                       | Detects up to 10 faces simultaneously, Uploads face with background and closed-up face pictures, Supports detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best face picture                                                                                                                                                                                                            |
| Road Traffic and Vehicle Detection | Blocklist and allowlist: up to 10,000 records<br>Captures vehicle that has no license plate<br>Support license plate recognition of motorcycles (only in checkpoint scenario)<br>Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.)                                                                                                                          |
| <b>General</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Power                              | 100 VAC to 240 VAC Max. 110 W (Max. 15 W for IR)                                                                                                                                                                                                                                                                                                                                                                             |
| Dimension                          | 421.6 mm × 374.29 mm × 217.72 mm (16.60" × 14.74" × 8.57")                                                                                                                                                                                                                                                                                                                                                                   |
| Weight                             | Approx. 25 kg (55.13 lb.)                                                                                                                                                                                                                                                                                                                                                                                                    |
| Material                           | SUS316L stainless steel with anti-corrosion surface spray treatment                                                                                                                                                                                                                                                                                                                                                          |
| Operating Condition                | -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                    |
| Cable Length                       | 10 m (27.34 ft.)                                                                                                                                                                                                                                                                                                                                                                                                             |
| General Function                   | Anti-flicker, heartbeat, mirror, flash log, password reset via e-mail, pixel counter, password protection, one-key reset, three streams                                                                                                                                                                                                                                                                                      |
| Wiper                              | Yes                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Approval</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EMC                                | CE-EMC (EN 55032:2015, EN 61000-3-2:2019, EN 61000-3-3:2013, EN 50130-4:2011 +A1: 2014), RCM (AS/NZS CISPR 32:2015), IC (ICES-003: Issue 7), KC (KN 32:2015, KN 35:2015)                                                                                                                                                                                                                                                     |
| 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)                                                                                                                                                                                                                                                                                          |
| Environment                        | CE-RoHS (2011/65/EU), WEEE (2012/19/EU), Reach (Regulation (EC) No 1907/2006)                                                                                                                                                                                                                                                                                                                                                |
| Protection                         | IP68 (IEC 60529:2013), IK10 (IEC 62262:2002)                                                                                                                                                                                                                                                                                                                                                                                 |
| Explosion-Proof Protection         | ATEX: II 2 G D Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68,<br>IECEx: Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68, 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)                                                                                                                                                                                                                                                                                                                                                                                                      |

## ▪ DORI

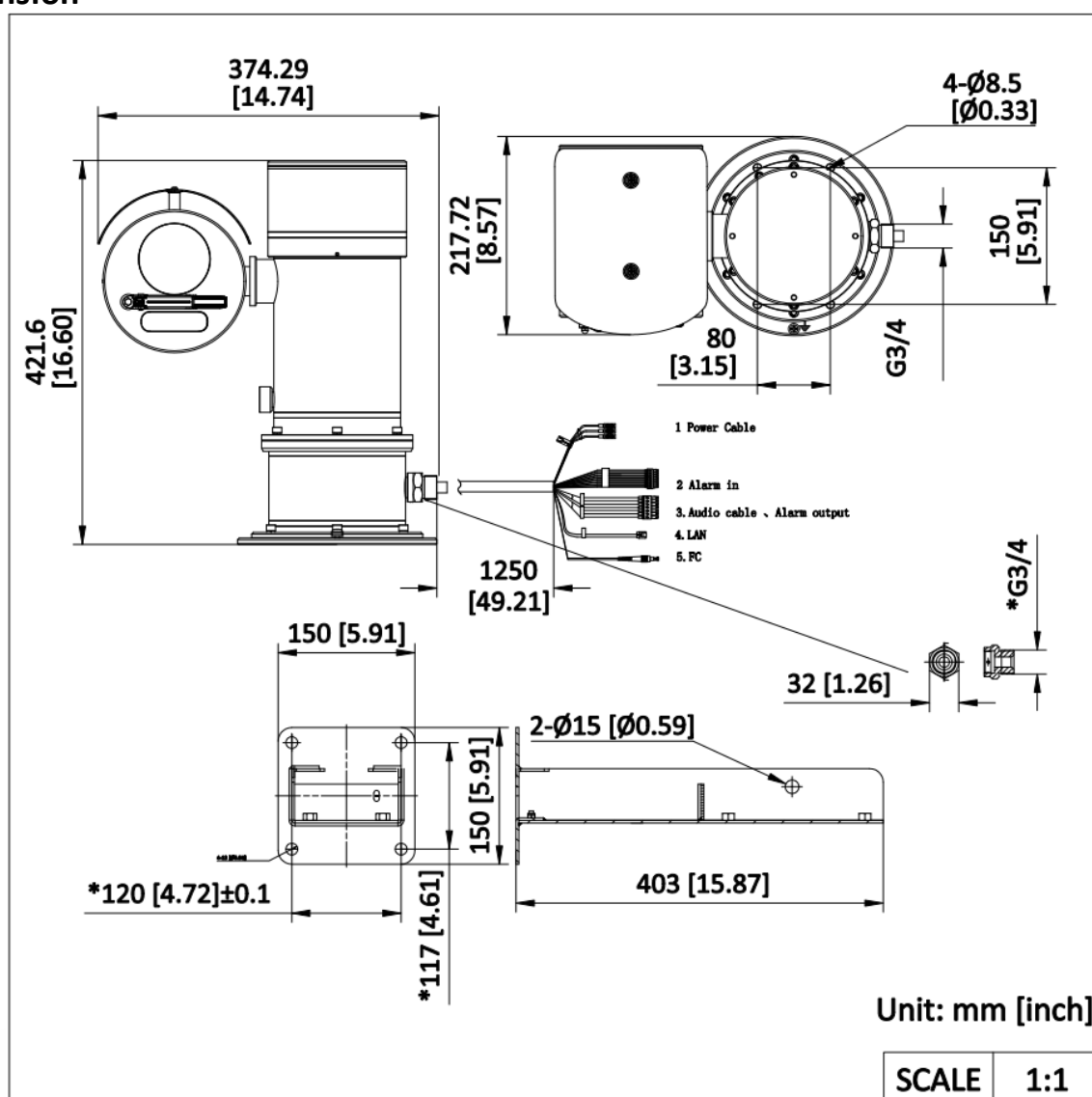
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

| DORI            | Detect              | Observe            | Recognize        | Identify          |
|-----------------|---------------------|--------------------|------------------|-------------------|
| Definition      | 25 px/m             | 63 px/m            | 125 px/m         | 250 px/m          |
| Distance (Tele) | 1855.2m(6085.06 ft) | 736.2m(2414.74 ft) | 371m(1216.88 ft) | 185.5m(608.44 ft) |

## ▪ Available Model

DS-2DY7436IXG-CXLWF(316L)10m

## ▪ Dimension



## ▪ Accessory

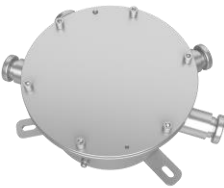
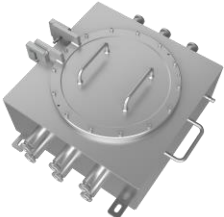
## ▪ Included

DS-4402ZJ-GY38S

L(OS)



▪ **Optional**

| DS-2XE2705-M04(3<br>16L)                                                          | DS-2XE2601-10-Y(S<br>S)                                                           | DS-2XE2707CB-M1<br>2(316L)                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |

# See Far, Go Further



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