# HIKVISION®

## DS-2DF8A442IXG-ELY
## 4MP 42X DarkFighter IR Network Speed

- 1/1.8" Progressive Scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance with DarkFighter technology
- 42× optical zoom and 16× digital zoom provide close up views over expansive areas
- Expansive night view with up to 500 m IR distance
- Water and dust resistant (IP67) and vandal proof (IK10)
- Supports face capture to detect, capture, grade, and select faces in motion
- Supports road traffic to detect vehicles
- Smart Pan-Tilt Correction

## ▪ Specification

| Camera | |
|---|---|
| Image Sensor | 1/1.8" progressive scan CMOS |
| Min. Illumination | Color: 0.001 Lux @ (F1.2, AGC ON), B/W: 0.0005 Lux @ (F1.2，AGC ON), 0 Lux with IR |
| Shutter Speed | 1/1 s to 1/30,000 s |
| Slow Shutter | Yes |
| Day ＆ Night | IR cut filter |
| Zoom | 42x optical, 16x digital |
| Max. Resolution | 2560 × 1440 |
| **Lens** | |
| Focus | Auto, semi-auto, manual, rapid focus |
| Focal Length | 6.0 mm to 252 mm |
| Zoom Speed | Approx. 4.5 s |
| FOV | Horizontal field of view: 56.6° to 1.7° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele) |
| Aperture | Max. F1.2 |
| **Illuminator** | |
| Supplement Light Type | IR |
| Supplement Light Range | 500 m |
| Smart Supplement Light | Yes |
| **PTZ** | |
| Movement Range (Pan) | 360° |
| Movement Range (Tilt) | -20° to 90° (auto flip) |
| Pan Speed | Pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s |
| Tilt Speed | Tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s |
| Proportional Pan | Yes |
| Presets | 300 |
| Patrol Scan | 8 patrols, up to 32 presets for each patrol |
| Pattern Scan | 4 pattern scans, record time over 10 minutes for each scan |
| Power-off Memory | Yes |
| Park Action | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan |
| 3D Positioning | Yes |
| PTZ Status Display | Yes |
| Preset Freezing | Yes |
| Scheduled Task | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output |
| **Video** | |
| Main Stream | 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) |
| Sub-Stream | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 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) 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 |
| | Sub-stream: H.265/H.264/MJPEG |
| | Third stream: H.265/H.264/MJPEG |
| Video Bit Rate | 32 Kbps to 16384 Kbps |
| 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 |
| **Audio** | |
| Audio Compression | G.711alaw, G.711ulaw, 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) |
| **Network** | |
| Network Storage | NAS (NFS, SMB/ CIFS), ANR |
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour |
| API | ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T) |
| Simultaneous Live View | Up to 20 channels |
| User/Host | Up to 32 users. 3 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, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.3, host authentication (MAC address) |
| Client | HikCentral, iVMS-4200, Hik-Connect |
| Web Browser | IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+ |
| **Image** | |
| Image Settings | Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser |
| Day/Night Switch | Day, night, auto, scheduled-switch |
| Image Enhancement | BLC, HLC, 3D DNR |
| Wide Dynamic Range (WDR) | 140 dB WDR |
| Defog | Optical defog |
| Image Stabilization | Yes. Built-in gyroscope to improve EIS performance. |
| Regional Exposure | Yes |
| Regional Focus | Yes |
| Privacy Mask | Up to 24 masks, polygon region, mosaic mask, mask color configurable |
| SNR | ≥ 52 dB |
| **Supplement Detection** | |
| Satellite Positioning | NO |
| **Interface** | |
| Ethernet Interface | 1 RJ45 10M/100M self-adaptive Ethernet port |
| On-board Storage | Built-in memory card slot, support MicroSD/MicroSDHC/MicroSDXC, up to 256 GB |
| Alarm | 7 inputs, 2 outputs |
| Audio | 1 input (line in), max. input amplitude: 0-3.3Vpp, input impedance: 4.7KΩ±5%; 1 output (line out), line level, output impedance: 600 Ω |
| Video Output | 1.0V[p-p]/75Ω, PAL, NTSC, BNC connector |
| RS-485 | HIKVISION, Pelco-P, Pelco-D, self-adaptive |

| Event | |
|---|---|
| Linkage | Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger recording,and PTZ actions (such as preset, patrol scan, pattern scan) |
| Basic Event | Motion detection, video tampering alarm, alarm input and output, exception |
| Smart Event | Line crossing detection, region entrance detection, unattended baggage detection, object removal detection, intrusion detection, region exiting detection, vandal-proof alarm, audio exception detection |
| Smart Tracking | Manual tracking, auto-tracking |
| **Deep Learning Function** | |
| Face Capture | Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face |
| Face Comparison | Yes |
| Perimeter Protection | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle) |
| **Road Traffic and Vehicle Detection** | |
| Road Traffic | Support vehicle detection (license plate number,vehicle model, and vehicle color recognition) |
| **General** | |
| General Function | Mirror, password protection, watermark, IP address filter |
| Power | 24 VAC (Max. 60 W, including max. 18 W for IR and max. 6 W for heater), Hi-PoE (Max. 50 W, including max. 18 W for IR and max. 6 W for heater) |
| Operating Condition | Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95% |
| Dimension | ⌀ 267 mm × 405 mm (⌀ 10.51" × 15.94") |
| Weight | Approx. 8.5 kg (18.74 lb.) |
| 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 |
| **Approval** | |
| EMC | FCC SDoC (47 CFR Part 15, Subpart B);<br>CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014);<br>RCM (AS/NZS CISPR 32: 2015);<br>IC VoC (ICES-003: Issue 6, 2019);<br>KC (KN 32: 2015, KN 35: 2015) |
| Safety | UL (UL 62368-1)<br>CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);<br>CE-LVD (EN 62368-1:2014+A11:2017),<br>BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);<br>LOA (SANS IEC60950-1) |
| Environment | CE-RoHS (2011/65/EU); WEEE (2012/19/EU);<br>Reach (Regulation (EC) No 1907/2006) |
| Anti-Corrosion Protection | NEMA 4X, WF2 |
| Protection | IP67 Standard, Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5, IK10 |

## ▪ 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.
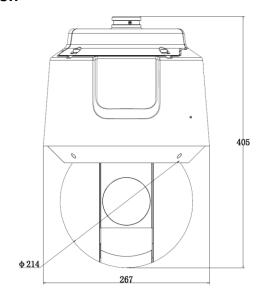
It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.
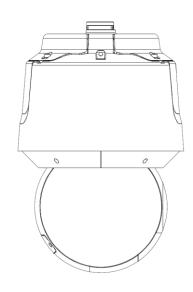
| DORI | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|
| Definition | 25 px/m | 63 px/m | 125 px/m | 250 px/m |
| Distance (Tele) | 3475.9 m (11403 ft.) | 1379.3 m (4525.3 ft.) | 695.2 m (2280.8 ft.) | 347.6 m (1140.4 ft.) |

## ▪ Available Model

DS-2DF8A442IXG-ELY

## ▪ Dimension



405
φ214
267

## ▪ Accessory

### ▪ Optional

| DS-1602ZJ-AKS Wall mount | DS-1604ZJ-BOX-Corner-Y Corner mount | DS-1604ZJ-BOX-Y Wall mount |
|---|---|---|
|  |  |  |