

DS-2DF8A442IXS-AEL(T5) (S2324C) 4 MP 42× IR Network Speed Dome

DarkFighter[★]



Hikvision DS-2DF8A442IXS-AEL(T5) 4MP 42× Network IR Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the 42× optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations and large venues, etc.

- 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
- Light control by BLC and HLC according to the scene
- Supports road traffic to detect vehicles



▪ 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) | 2965.5 m (9729.3 ft.) | 1176.8 m (3860.9 ft.) | 604.1 m (1982.0 ft.) | 302.1 m (991.1 ft.) |

▪ Specification

| Camera | |
|------------------------|---|
| Image Sensor | 1/1.8" progressive scan CMOS |
| Min. Illumination | Color: 0.0003 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR |
| Shutter Speed | 1/1 s to 1/30,000 s Auto, semi-auto, manual |
| Auto Shutter | Yes |
| Slow Shutter | Yes |
| Day & Night | Auto with IR cut filter |
| Day & Night Switch | Day, Night, Auto, Schedule |
| Zoom | 42x optical, 16x digital |
| Max. Resolution | 2560 × 1440 |
| Lens | |
| Focus | Auto, semi-auto, manual, rapid focus |
| Iris | Auto, semi-auto, manual |
| 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 | Up to 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.264Sub-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/IP, IGMP, ICMP, Bonjour, TLS/SSL |
| API | ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Onvif) Profile S, Profile G, Profile T, Profile M |
| 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, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS/SSL 1.3, host authentication (MAC address), TPM 2.0 (FIPS 140 -2 level 2), AES 128 |
| 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 (AGC), and white balance (AWB) adjustable by client software or web browser |
| Day/Night Switch | Day, night, auto, scheduled-switch |
| Image Enhancement | BLC, HLC, 3D DNR (Dynamic Noise Reduction) |
| Wide Dynamic Range (WDR) | 150 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 |

| 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: 2-2.4 vpp, input impedance: 1 K Ω \pm 10%; 1 output (line out), line level, output impedance: 600 Ω |
| Video Output | 1.0V[p-p]/75 Ω , PAL, NTSC, BNC connector |
| RS-485 | HIKVISION, Pelco-P, Pelco-D, self-adaptive |
| Event | |
| 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-proofalarm, audio exception detection |
| Smart Tracking | Manual tracking, auto-tracking |
| Object Tracking | Support person arming. When the device detects the armed face or human body in the monitoring scene, it triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded.Support vehicle arming. When the device detects the armed vehicles in the monitoring scene, it triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded. |
| Alarm Linkage | Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, SendEmail, etc. |
| 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 theface. gender, color, bag and hat features supported by customization |
| Face Comparison | Yes |
| Perimeter Protection | Line crossing, intrusion detection, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) |
| Road Traffic and Vehicle Detection | |
| Road Traffic | Smart Function: Support license plate recognition of vehicles and motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, driving direction, etc. Support vehicle and non-vehicle counting Blocklist and allowlist: up to 10,000 records LPR Countries/Regions: 4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions Accuracy (Under recommended installation and lighting conditions): License plate recognition rate \geq 98% Capture rate \geq 99% Driving direction accuracy rate \geq 98% Vehicle Capture Speed: Front installation in checkpoint scenario: up to 120 km/h Side installation: up to 80 km/h Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode |
| 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 $^{\circ}$ C to 70 $^{\circ}$ C (-40 $^{\circ}$ F to 158 $^{\circ}$ F), Humidity: \leq 95% |
| Dimension | \varnothing 267 mm \times 405 mm (\varnothing 10.51" \times 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 | <p>FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015);IC VoC (ICES-003: Issue 7); KC (KN 32: 2015, KN 35: 2015)</p> |
| Safety | <p>UL (UL 62368-1) 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)</p> |
| Environment | <p>CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)</p> |
| Protection | <p>Lightning Protection, Surge Protection and Voltage Transient Protection, ±6 kV Line to Gnd, ±3kV Line to Line, IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)</p> |

▪ **Available Model**

DS-2DF8A442IXS-AEL (T5)(CP)

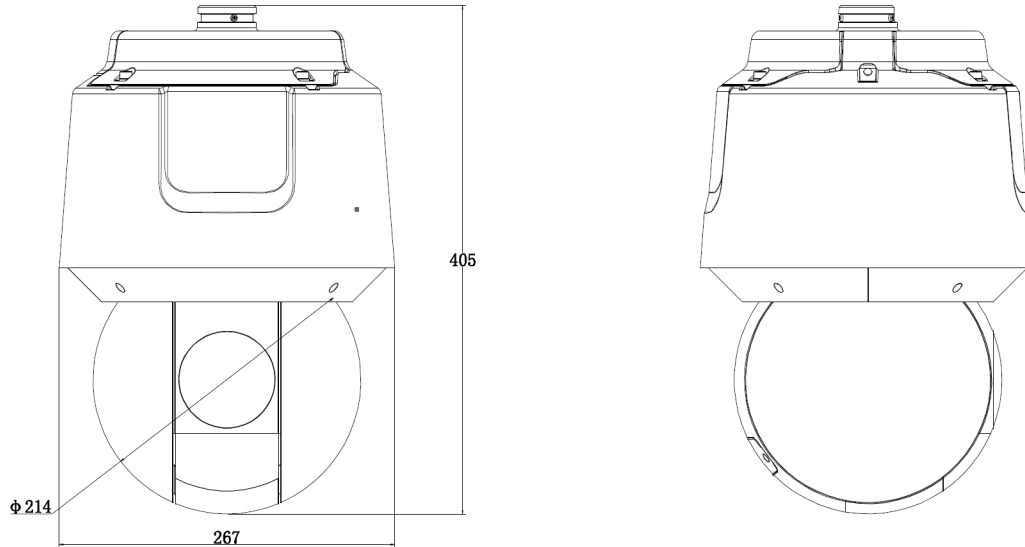
▪ **Typical Application**

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. |

▪ **Dimension**

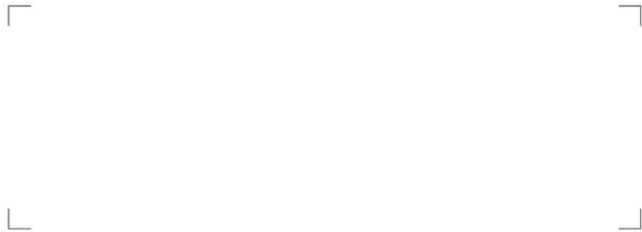


☐ **Accessory**

☐ **Optional**

| | | | | |
|---|---|---|---|---|
| <p>DS-1604ZJ-Pole-P Vertical pole mount</p> | <p>DS-1682ZJ-P Pendant Mount</p> | <p>DS-1604ZJ-BOX- CORNER-P Wall mount</p> | <p>DS-1673ZJ-P Vertical pole mount</p> | <p>DS-1604ZJ-P Wall mount</p> |
|  |  |  |  |  |
| <p>DS-1604ZJ-BOX- POLE-P Vertical pole mount</p> | <p>DS-1604ZJ-BOX- P Wall mount</p> | <p>DS-1667ZJ-P Pendant Mount</p> | <p>DS-1661ZJ-P Pendant Mount</p> | <p>DS-1660ZJ-P Wall mount</p> |
|  |  |  |  |  |
| <p>DS-1663ZJ-P In-ceiling mount</p> | <p>DS-1604ZJ- Corner-P Corner mount</p> | <p>DS-1662ZJ-P Pendant Mount</p> | | |
|  |  |  | | |

Distributed by

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