

## DS-2DF8A842IXS-AEL(T2)

### 8 MP 42 × IR Network Speed Dome



Hikvision DS-2DF8A842IXS-AEL(T2) 8 MP 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
- Up to 3840 × 2160 resolution
- Min. Illumination: Color: 0.005 Lux @(F1.2, AGC ON), B/W: 0.0005 Lux @(F1.2, AGC ON), 0 Lux with IR
- 42 × optical zoom, 16 × digital zoom
- 120 dB WDR, 3D DNR, EIS, HLC, Smart IR
- 24 VAC & Hi-PoE
- Up to 500 m IR distance
- Support H.265+/H.265 video compression
- Support Rapid focus
- IK10, IP67
- Support Vandal-proof alarm
- Support face capture to detect, track, capture, grade, and select face in motion
- Support road traffic to detect vehicles, including license plate number, vehicle model, and vehicle color
- Person arming: supports real-time modeling and comparison, arms and tracks predefined persons, and uploads the longitude and latitude information of the target during tracking
- Vehicle arming: supports vehicle detection and license plate recognition, arms and tracks predefined vehicles, and uploads the longitude and latitude information of the target during tracking



## ▪ Specification

| Camera Module         |  |
|-----------------------|--|
| Image Sensor          | 1/1.8" progressive scan CMOS   |
| Min. Illumination     | color: 0.005 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  |
| Focus                 | semi-auto, manual, auto  |
| Day & Night           | ICR  |
| Day/Night Switch      | day, night, auto, scheduled-switch   |
| BLC                   | yes  |
| WDR                   | 120 dB WDR   |
| HLC                   | yes  |
| 3D DNR                | yes  |
| EIS                   | Yes. Built-in gyroscope to improve EIS performance.  |
| Regional Exposure     | yes  |
| Regional Focus        | yes  |
| White Balance         | auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB   |
| Digital Zoom          | 16 ×   |
| Optical Zoom          | 42 ×   |
| Privacy Mask          | up to 24 masks, polygon region, mosaic mask, mask color configurable   |
| SNR                   | ≥ 55dB   |
| General Function      | mirror, password protection, watermark, IP address filter  |
| Optical Defog         | yes  |
| Lens                  |  |
| Focal Length          | 6 mm to 252 mm, 42 × Optical   |
| Zoom Speed            | approx. 4.9 s  |
| FOV                   | Horizontal field of view: 56.6° to 1.7° (wide-tele),<br>Vertical field of view: 33.7° to 0.9° (wide-tele),<br>Diagonal field of view: 63.4° to 1.9° (wide-tele)              |
| Aperture              | F1.2   |
| 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 Zoom     | 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                 |  |
| Max. Resolution       | 3840 × 2160  |
| Main Stream           | 50 Hz: 25 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720);<br>60 Hz: 30 fps (3840 × 2160, 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     | 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   |
| H.264+                | yes  |

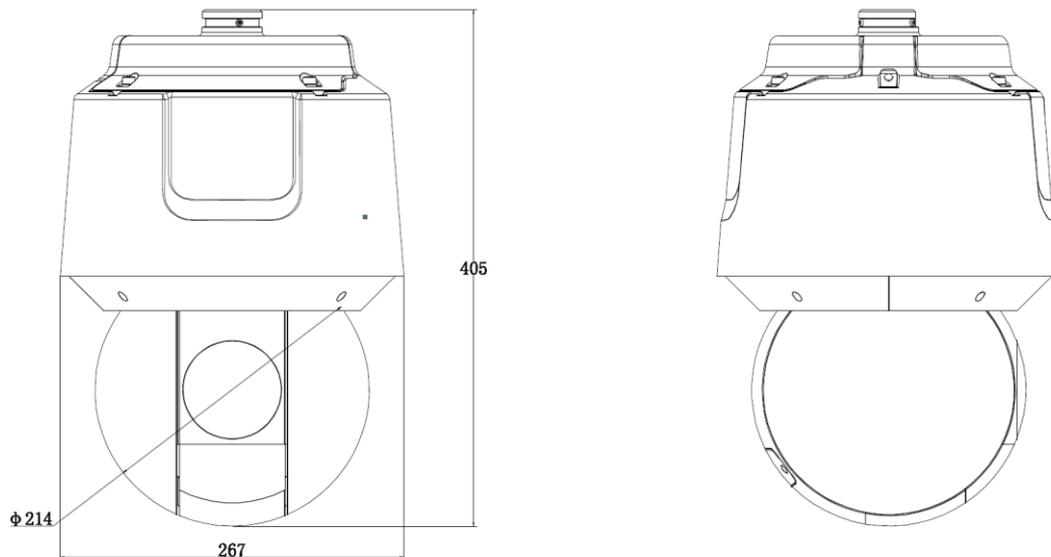
|                         |  |
|-------------------------|--|
| H.265+                  | yes  |
| SVC                     | yes  |
| ROI                     | dynamic face tracking, fixed region, dynamic license plate tracking  |
| <b>Audio</b>            |  |
| Audio Compression       | G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM  |
| Audio Bit rate          | 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps(MP2L2)   |
| <b>Smart Features</b>   |  |
| 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.   |
| Road Traffic            | Support vehicle detection (license plate number,vehicle model, and vehicle color recognition)  |
| Basic Event             | motion detection,video tampering alarm,alarm input,alarm output  |
| Smart Event             | unattended baggage detection,object removal detection,Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection,vandal-proof alarm  |
| Smart Tracking          | manual tracking, panorama tracking, event tracking   |
| Smart Record            | ANR, Dual-VCA  |
| Alarm Linkage           | preset, patrol scan, pattern scan, memory card video recording, alarm output, sending email, notify surveillance center, upload to FTP, NAS video recording  |
| <b>Network</b>          |  |
| Network Storage         | NAS (NFS, SMB/ CIFS)   |
| Protocols               | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour   |
| API                     | Open-ended API, ONVIF (Profile S, Profile G), ISAPI, Hikvision SDK, Third-party management platform, ISUP  |
| Simultaneous Live View  | Up to 20 channels  |
| User/Host               | Up to 32 users. 3 levels: Administrator, Operator and User   |
| Smooth Streaming        | yes  |
| Security Measures       | Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter   |
| Client                  | iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect   |
| Web Browser             | IE 10+, Chrome 57+, Firefox 52+, Safari 12+  |
| <b>Interface</b>        |  |
| Communication Interface | 1 RJ45 10 M/100 M Ethernet Interface; Hi-PoE   |
| On-board Storage        | Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB; NAS (NFS, SMB/ CIFS), ANR   |
| Alarm Input             | 7 alarm inputs   |
| Alarm Output            | 2 alarm outputs  |
| Audio Input             | 1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%  |
| Audio Output            | 1 audio output, line level, impedance: 600 Ω   |
| Video Output            | 1.0V[p-p]/75Ω,PAL,NTSC,BNC connector   |
| RS-485                  | HIKVISION, Pelco-P, Pelco-D, self-adaptive   |
| <b>Supplement Light</b> |  |
| IR Distance             | 500 m  |
| Smart IR                | yes  |
| <b>General</b>          |  |
| Power                   | 24 VAC (Max. 60 W, including max. 18 W for laser and max. 6 W for heater), Hi-PoE (Max. 50 W, including max. 18 W for laser and max. 6 W for heater)   |
| Operating Conditions    | Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%   |
| Dimensions              | Φ 267 mm × 405 mm (Φ 10.51" × 15.94")  |
| Weight                  | Approx. 8.5 kg (18.74 lb.)   |
| Web Client Language     | 32 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) |
| <b>Approval</b>         |  |
| Protection              | IP67, Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5, IK10   |

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) | 4800 m (15748.0 ft) | 1904.8 m (6249.3 ft) | 960 m (3149.6 ft) | 480 m (1574.8 ft) |

## ▪ Dimension



## ▪ Accessory

### ▪ Optional

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

|   |   |   |   |   |
|---|---|---|---|---|
|  |  |  |  |  |
| <b>DS-1673ZJ-P</b><br><b>Vertical pole mount</b>                                  | <b>DS-1604ZJ-BOX-POLE-P</b><br><b>Vertical pole mount</b>                         | <b>DS-1662ZJ-P</b><br><b>Pendant Mount</b>  |   |   |
|  |  |  |   |   |

## ▪ Available Model

DS-2DF8A842IXS-AEL (T2)

Distributed by



## HIKVISION®

### Headquarters

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Australia**  
T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahikvision.com

**Hikvision Canada**  
T +1-866-200-6690  
sales.canada@hikvision.com

**Hikvision Thailand**  
T +662-275-9949  
sales.thailand@hikvision.com

**Hikvision Europe**  
T +31-23-5542770  
sales.eu@hikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision Brazil**  
T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Turkey**  
T +90 (216)521 7070- 7074  
sales.tr@hikvision.com

**Hikvision Malaysia**  
T +601-7652-2413  
sales.my@hikvision.com

**Hikvision UK & Ireland**  
T +01628-902140  
sales.uk@hikvision.com

**Hikvision South Africa**  
Tel: +27 (10) 0351172  
sale.africa@hikvision.com

**Hikvision France**  
T +33(0)1-85-330-450  
info.fr@hikvision.com

**Hikvision Kazakhstan**  
T +7-727-9730667  
nikia.panfilov@hikvision.ru

**Hikvision Vietnam**  
T +84-974270888  
sales.vt@hikvision.com

**Hikvision UAE**  
T +971-4-4432090  
salesme@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Tashkent**  
T +99-87-1238-9438  
uzb@hikvision.ru

**Hikvision Hong Kong**  
T +852-2151-1761  
info.hk@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision Korea**  
T +82-(0)31-731-8817  
sales.korea@hikvision.com

**Hikvision Poland**  
T +48-22-460-01-50  
info.pl@hikvision.com

**Hikvision Indonesia**  
T +62-21-2933759  
Sales.Indonesia@hikvision.com

**Hikvision Colombia**  
sales.colombia@hikvision.com