

DS-2DE4A425IW-DE (B) 4 MP 25 × Network IR PTZ Camera



Hikvision DS-2DE4A425IW-DE 4 MP 25 × Network IR PTZ Camera adopts 1/2.8" progressive scan CMOS chip. With the 25 × 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.

Key Features

- 1/2.8" progressive scan CMOS
- Up to 2560 × 1440 resolution
- Min. illumination:
Color: 0.005 Lux @(F1.6, AGC ON)
B/W: 0.001 Lux @(F1.6, AGC ON)
0 Lux with IR
- 25 × optical zoom, 16 × digital zoom
- 120 dB WDR, 3D DNR, HLC, BLC
- Up to 50 m IR distance
- 12 VDC & PoE+ (802.3 at, class4)
- Support H.265+/H.265 video compression



Specification

| Camera Module | |
|-----------------------|---|
| Image Sensor | 1/2.8" progressive scan CMOS |
| Min. Illumination | Color: 0.005 Lux @(F1.6, AGC ON) B/W: 0.001 Lux @(F1.6, AGC ON) 0 Lux with IR |
| White Balance | Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp |
| AGC | Auto/Manual |
| Shutter Time | 1/1 s to 1/30,000 s |
| Day & Night | IR Cut Filter |
| Digital Zoom | 16 × |
| Privacy Mask | 24 programmable privacy masks |
| Focus Mode | Auto/Semi-automatic/Manual |
| WDR | 120 dB WDR |
| Lens | |
| Focal Length | 4.8 mm to 120 mm, 25 × optical |
| Zoom Speed | Approx. 3.6 s (optical lens, wide-tele) |
| FOV | Horizontal field of view: 55° to 2.4° (wide-tele) Vertical field of view: 33° to 1.4° (wide-tele) Diagonal field of view: 61.5° to 2.8° (wide-tele) |
| Working Distance | 100 mm to 1500 mm (wide-tele) |
| Aperture Range | F1.6 to F3.5 |
| IR | |
| IR Distance | 50 m |
| Smart IR | Yes |
| PTZ | |
| Movement Range (Pan) | 360° endless |
| Pan Speed | Configurable, from 0.1°/s to 300°/s Preset Speed: 350°/s |
| Movement Range (Tilt) | From -5° to 90° (auto-flip) |
| Tilt Speed | Configurable, from 0.1°/s to 160°/s Preset Speed: 200°/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 |
| PTZ Position 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 |
| Compression Standard | |
| 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 |
| H.264 Type | Baseline Profile/Main Profile/High Profile |
| H.264+ | Yes |
| H.265 Type | Main Profile |

| | |
|--------------------------------|---|
| H.265+ | Yes |
| Video Bitrate | 32 Kbps to 16384 Kbps |
| Audio Compression | G.711alaw/G.711ulaw/G.722/G.726/MP2L2/PCM |
| Audio Bitrate | 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 160 Kbps (MP2L2) |
| SVC | Yes |
| Smart Feature | |
| Basic Event Detection | Motion Detection, Video Tampering Detection, Alarm Input, Alarm Output, Exception |
| Smart Detection | Audio Exception Detection, Face Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Unattended Baggage Detection, Object Removal Detection |
| Smart Tracking | Manual Tracking, Auto Tracking, Event Tracking |
| ROI encoding | Main stream, sub-stream, and third stream respectively support four fixed areas. |
| Smart Record | ANR (Automatic Network Replenishment), Dual-VCA |
| Image | |
| Max. Resolution | 2560 × 1440 |
| Main Stream | 50Hz: 25fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720) 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720) 60fps (1920 × 1080, 1280 × 960, 1280 × 720) |
| Sub-Stream | 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240) |
| Third Stream | 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) |
| Image Enhancement | HLC/BLC/3D DNR/Defog/EIS/Regional Exposure/Regional Focus |
| Network | |
| Network Storage | Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB; NAS (NFS, SMB/CIFS), ANR |
| Alarm Linkage | Alarm actions, such as Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc. |
| 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 | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK |
| Simultaneous Live View | Up to 20 channels |
| User/Host | Up to 32 users. 3 levels: Administrator, Operator and User |
| Security Measures | User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering |
| Client | iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect |
| Web Browser | IE 8 to 11, Chrome 31.0+, Firefox 30.0+ |
| Interface | |
| Audio Interface | 1-ch audio input and 1-ch audio output |
| Alarm Interface | 2-ch alarm input and 2-ch alarm input |
| Network Interface | 1 RJ45 10 M/100 M Ethernet Interface; PoE+ (802.3 at, class4) |
| General | |
| Language (Web Browser Access) | 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) |
| Power | 12 VDC & PoE+ (802.3 at, class4), Max.:18 W, including max. 5W for IR |
| Working Temperature | -30°C to 65°C (-22°F to 149°F) |

| | |
|------------------|---|
| Working Humidity | ≤ 90% |
| Protection Level | IP66 Standard, 4000V Lightning Protection, Surge Protection and Voltage Transient Protection |
| Installation | Variable installation methods optional, including ceiling mounting (default), in-ceiling mounting, pendant mounting and wall mounting |
| Material | ADC12, PC, PC+ABS, SUS304, POM |
| Dimensions | Φ 169 mm × 161 mm (Φ 6.65" × 6.34") |
| Weight | Approx. 2.45 kg (5.40 lb) |

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.

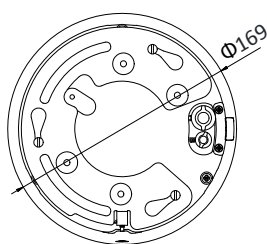
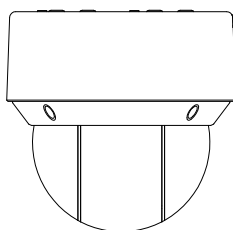
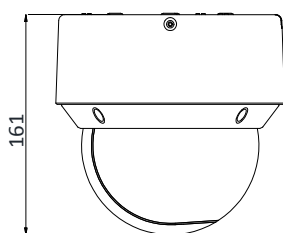
It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

| DORI | Detect | Observe | Recognize | Identify |
|-----------------|----------------------|---------------------|---------------------|--------------------|
| Definition | 25 px/m | 63 px/m | 125 px/m | 250 px/m |
| Distance (Tele) | 2400.0 m (7874.0 ft) | 952.4 m (3124.7 ft) | 480.0 m (1574.8 ft) | 240.0 m (787.4 ft) |

Order Model

DS-2DE4A425IW (B), 12 VDC & PoE+ (802.3 at, class4)

Dimensions



Unit: mm

Accessory

Optional:



DS-1605ZJ
Wall Mount Bracket



DS-1275ZJ-SUS
Vertical pole mount



DS-1276ZJ-SUS
Corner mount



DS-1691ZJ-L
Pendant Mount



DS-1691ZJ-M
Pendant Mount



DS-1691ZJ
Pendant Mount



DS-1671ZJ-SD11
In-ceiling Mount Bracket



DS-1280ZJ-SD11
Junction Box



KPL-040F-VI
Power adapter



LAS60-57CN-RJ45
Hi-PoE midspan



DS-1100KI
Network Keyboard



DS-1005KI
USB Joy-stick

Distributed by



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