# DS-2DP8A440IXG-LEF/624(F0)(B)
# 270° Stitched 24 MP PanoVu Camera with PTZ







Hikvision DS-2DP8A440IXG-LEF/624(F0) 270° Stitched 24 MP PanoVu Camera with PTZ is able to capture panoramic images as well as close-up images. The panoramic images are captured by 6 sensors for 270° panorama monitoring. The integration of two cameras can locate the details fast over expansive area. Furthermore, with advanced video analysis and multiple targets tracking algorithms, the PanoVu camera features a wide range of smart functions for multiple targets within the panoramic view, including intrusion detection, line crossing detection, region entrance detection, and region exiting detection. The camera can output alarm signals and link the PTZ for tracking to improve the security efficiency.
This product is suitable for the application scenarios that require expansive monitoring and detail capture, such as airports, stations, stadiums, playgrounds, scenic areas, and public squares.

- High quality imaging with 24 MP resolution, up to 8160×2400 @30 fps for panoramic channels
- Excellent low-light performance with DarkFighter technology
- 40x optical zoom and 16x digital zoom provide close up views over expansive areas
- Expansive night view with up to 500 m IR distance
- With one click on the panoramic channel, the PTZ channel shows the details automatically
- Continous and stable manual tracking, auto-tracking, and panorama tracking
- Automatic switch between multiple targets
- Supports 7 alarm inputs, 2 alarm outputs, 1 audio input, and 1 audio output

## ▪ Specification

| | |
|---|---|
| **Camera** | |
| Image Sensor | [Panoramic channel]: 1/1.8" progressive scan CMOS, [PTZ channel]: 1/1.8" progressive scan CMOS |
| Max. Resolution | [Panoramic channel]8160×2400;[PTZ channel]2560×1440 |
| Min. Illumination | [Panoramic channel] Color: 0.0005 Lux (F1.0, AGC ON), B/W: 0.0001 Lux (F1.0, AGC ON);<br>[PTZ channel]: 0.0005 Lux (F1.2, AGC ON), B/W: 0.0001 Lux (F1.2, AGC ON), 0 Lux with IR |
| Shutter Speed | 1 s to 1/30000 s |
| Day & Night | IR cut filter |
| Zoom | [PTZ channel] 40x optical, 16x digital |
| Slow Shutter | Yes |
| **Lens** | |
| Focal Length | [Panoramic channel] 2.8 mm; [PTZ channel] 6.0 to 240 mm |
| FOV | Horizontal FOV 56.6° to 1.8°, vertical FOV 33.7° to 1.0°, diagonal FOV 63.4° to 2.0° |
| Focus | Auto, semi-auto, manual, rapid focus |
| Aperture | [Panoramic channel]Max. F1.0;[PTZ channel]:Max. F1.2 |
| Zoom Speed | [PTZ channel] Approx. 5.6 s |
| **Illuminator** | |
| Supplement Light Type | laser |
| Supplement Light Range | Up to 500 m |
| Smart Supplement Light | Yes |
| **PTZ** | |
| Movement Range (Pan) | 360° |
| Movement Range (Tilt) | -15° to 90° (auto flip) |
| Pan Speed | Pan speed: configurable from 0.1° to 210°/s; preset speed: 240°/s |
| Tilt Speed | Tilt speed: configurable from 0.1° to 150°/s, preset speed 200°/s |
| Proportional Pan | [Panoramic channel]: no; [PTZ channel]: 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 |

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| **Video** | |
| Main Stream | [Panoramic channel]:<br>50Hz:25fps (8160×2400,6128×1800,5760×1696，3840×1080),<br>60Hz: 30fps (8160×2400,6128×1800,5760×1696，3840×1080);<br>[PTZ channel]:<br>50Hz:25fps (2560x1440,1920×1080,1280×960,1280x720)<br>60Hz:30fps (2560x1440,1920x1080,1280x960,1280x720) |
| Sub-Stream | [Panoramic channel]:<br>50Hz: 25fps (2048×600,1280×376)；<br>60Hz:30fps (2048×600,1280×376);<br>[PTZ channel]:<br>50Hz: 25fps(704×576,640×480,352×288)；<br>60Hz:30fps(704×480,640×480,352×240); |
| Third Stream | [Panoramic channel]: no<br>[PTZ channel]:<br>50Hz:25fps (1920×1080,1280×960,1280×720,704×576,640×480,352×288)；<br>60Hz: 30fps(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 |
| **Audio** | |
| Audio Compression | G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, AAC_LC, PCM |
| Audio Sampling Rate | PCM: 8 kHz, 16 kHz, 32 kHz, 48 kHz; MP2L2: 16 kHz, 32 kHz, 48 kHz; AAC_LC: 16 kHz, 32 kHz, 48 kHz |
| **Network** | |
| 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,WebSocket，WebSockets,SRTP |
| Simultaneous Live View | Up to 20 channels |
| API | Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP |
| User/Host | Up to 32 users. 3 user levels: administrator, operator, and user |
| Security | Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter |
| Network Storage | NAS (NFS, SMB/CIFS), ANR |
| Client | iVMS-4200, HikCentral Pro, Hik-Connect |
| Web Browser | IE10-11, Chrome 57+, Firefox 52+, Safari 12+ |
| **Image** | |
| Image Parameters Switch | Yes |
| 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 |
| Wide Dynamic Range (WDR) | [Panoramic channel] no, [PTZ channel] 120 dB |
| SNR | ≥ 55 dB |
| Defog | [Panoramic channel]: no; [PTZ channel]: optical defog |

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| Image Stabilization | EIS |
| Image Enhancement | BLC, HLC, 3D DNR |
| Privacy Mask | Programmable polygon privacy masks (8 for panoramic channel, 24 for PTZ channel), mask color or mosaic configurable |
| Regional Focus | Yes |
| Regional Exposure | Yes |
| **Interface** | |
| Ethernet Interface | 1 RJ45 10M/100M/1000M self-adaptive Ethernet port |
| On-board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB |
| Audio | 1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%; 1 output (line out), line level, output impedance: 600 Ω |
| Alarm | 7 alarm inputs, 2 alarm outputs |
| RS-485 | 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) |
| Reset | Yes |
| Fiber Optical | 1 FC interface, built-in fiber module, 1000M, TX1310/RX1550 nm wavelength, single module fiber, up to 20 km transmission distance |
| **Event** | |
| Smart Event | Line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, intrusion detection |
| Linkage | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan) , Audible Warning |
| Smart Tracking | Manual tracking, auto-tracking, Support patrol tracking among multiple detection scenes |
| **Deep Learning Function** | |
| Face Capture | Detects up to 30 faces simultaneously,<br>Supports detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best face picture |
| Multi-Target-Type Detection | Supports simultaneous detection and capture of human body, face and vehicle,[Bullet channel] no |
| **General** | |
| Power | 36 VDC, max. 135 W (including max. 12 W for IR);Hi-POE, max. 75 W |
| Dimension | Ø 433.5 mm x 430.4 mm (Ø 17.07" x 16.94") |
| Weight | Approx. 18 kg (39.68 lb.) |
| Material | ADC12 |
| Operating Condition | -40°C to 70°C (-40°F to 158 °F). Humidity 90% or less (non-condensing) |
| Wiper | No |
| Demist | Yes |
| **Approval** | |
| Safety | UL (UL 62368-1);<br>CB (IEC 62368-1: 2014+A11);<br>CE-LVD (EN 62368-1:2014/A11:2017);<br>BIS (IS 13252 (Part 1): 2010/IEC 60950-1: 2005);<br>LOA (IEC/EN 60950-1) |

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|---|---|
| Environment | CE-RoHS (2011/65/EU); WEEE (2012/19/EU);<br>Reach (Regulation (EC) No 1907/2006) |
| Protection | IP67 Standard, Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5, IK10 |

## ▪ DORI

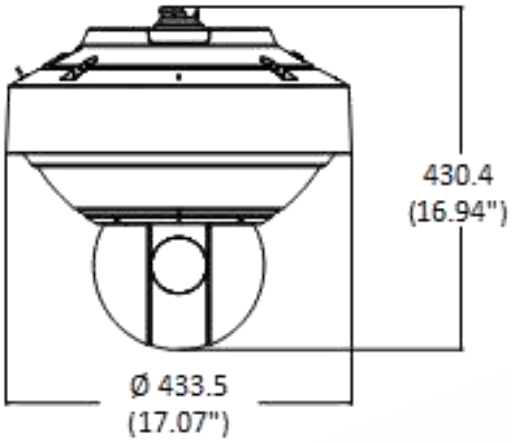
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

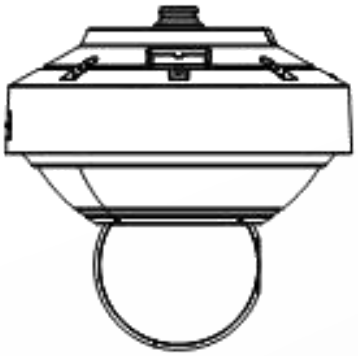
| DORI | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|
| Definition | 25 px/m | 63 px/m | 125 px/m | 250 px/m |
| [Panoramic channel] Distance | 38.6 m (126.6 ft.) | 15.3 m (50.2 ft.) | 7.7 m (25.3 ft.) | 3.9 m (12.8 ft.) |
| [PTZ channel] Distance (Tele) | 4137.9 m (13575.8 ft.) | 1642.0 m (5387.1 ft.) | 827.6 m (2715.2 ft.) | 413.8 m (1357.6 ft.) |

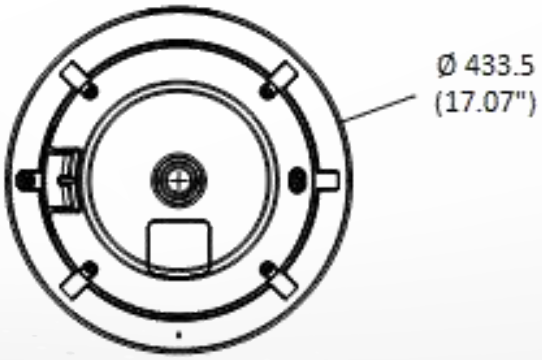
## ▪ Available Model

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## ▪ Dimension






Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1684ZJ-P<br>Vertical pole mount | DS-4604ZJ-PA<br>PTZ Wall mount | DS-4614ZJ-PA<br>PTZ Pendant Mount |
|---|---|---|
|  |  |  |

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