# DS-2DP7D836IXG1-LEFY/432
# 8 MPx4 360° Panoramic & 8 MP 36x PTZ Camera




Hikvision has been dedicated to develop products with security since established.
Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- Captures a large area and great details at the same time
- 24/7 colorful imaging and excellent low-light performance
- Motorized pan, tilt and rotation in 4 panoramic lenses for flexible adjustment
- 4 adjustable lenses in one camera cover up to 360° field of view, ensuring no blind area monitoring and the monitoring tilt angle can be adjusted
- Clear imaging against strong back light due to 120 dB(panorama) and 140 dB(PTZ) WDR technology
- High quality imaging with 4 MP resolution for both panoramic channel and PTZ channel
- Secures an expansive area with 36 × optical zoom and 16 × digital zoom
- Supports deep learning functions
- Water and dust resistant (IP67) and vandal resistant (IK10)

## ▪ Specification

| | |
|---|---|
| **Camera** | |
| Image Sensor | [Panoramic channel] 1/1.8" Progressive Scan CMOS, [PTZ channel] 1/1.8" Progressive Scan CMOS |
| Max. Resolution | [Panoramic channel] 3840 × 2160, [PTZ channel] 3840 × 2160 |
| Min. Illumination | Color: 0.001 Lux @ (F1.0, AGC ON),<br>[PTZ channel] Color: 0.002 Lux @ (F1.2, AGC ON), B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 lux with IR |
| Shutter Speed | 1/30 s to 1/30000 s |
| Day & Night | IR cut filter |
| Zoom | 36 × optical,16 × digital |
| Slow Shutter | Yes |
| **Lens** | |
| Focal Length | [Panoramic channel] 2.8 mm, [PTZ channel] 6-216 mm |
| FOV | [Panoramic channel]<br>horizontal field of view: 106.3°, vertical field of view: 56.2°, diagonal field of view: 131.3°,<br>[PTZ channel]<br>horizontal field of view: 59° to 2°, vertical field of view: 34.2° to 1.1°, diagonal field of view: 67.1° to 2.3° |
| Focus | Auto,semi-auto,manual |
| Aperture | [Panoramic channel] Max. F1.0, [PTZ channel] Max. F1.36 |
| Zoom Speed | Approx. 4.8 s |
| **Illuminator** | |
| Supplement Light Type | IR |
| Supplement Light Range | 300 m |
| **PTZ** | |
| Movement Range (Pan) | [Panoramic channel] 0° to 175° , ( Max.500cycles ) [PTZ channel] 0° to 360° |
| Movement Range (Tilt) | [Panoramic channel] 9° to 65° , ( Max.500cycles ) [PTZ channel] -20° to 90° |
| Pan Speed | [Power adaptor]: Pan speed: configurable from 0.1° to 700°/s, preset speed: 700°/s<br>[POE]: Pan speed: configurable from 0.1° to 350°/s, preset speed:350°/s |
| Movement Range (Rotate) | [Panoramic channel] -90° to 90° |
| Tilt Speed | [Power adaptor]: Tilt speed: configurable from 0.1° to 300°/s, preset speed 300°/s<br>[POE]: Tilt speed: configurable from 0.1° to 300°/s, preset speed 300°/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 |

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| Power-off Memory | Yes |
| **Video** | |
| Sub-Stream | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) |
| Main Stream | [PTZ channel] Channel 1:<br>50 Hz: 50 fps (3840 × 2160, 2688 × 1520, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960)<br>60 Hz: 60 fps (3840 × 2160, 2688 × 1520, 2560 × 1440), 120 fps (1920 × 1080, 1280 × 960)<br>[Panoramic channel] Channel 2,3,4,5:<br>50 Hz: 25 fps (3840 × 2160, 2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 960)<br>60 Hz: 30 fps (3840 × 2160, 2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 960) |
| 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 | 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 |
| Video Bit Rate | 32 Kbps to 16 Mbps |
| H.264 Type | Baseline profile,Main profile,High profile |
| H.265 Type | Main profile |
| Region of Interest (ROI) | 8 fixed regions for each stream |
| **Audio** | |
| Audio Compression | G.711,G.722.1,G.726,MP2L2,PCM |
| Audio Bit Rate | 32 to 192 Kbps (MP2L2) |
| Audio Sampling Rate | MP2L2: 16 to 48 kHz,PCM: 8 to 48 kHz,MP3: 8 to 48 kHz,AAC-LC: 16 to 48 kHz |
| Environment Noise Filtering | Yes |
| **Network** | |
| Protocols | IPv4/IPv6,HTTP,HTTPS,802.1X,QoS,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP/IP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,FTP |
| Simultaneous Live View | Up to 20 channels |
| API | ONVIF (Profile S, Profile G, Profile T),ONVIF (Profile M),ISAPI,SDK,ISUP,EZVIZ |
| User/Host | Up to 32 users. 3 user 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 1.3,host authentication (MAC address),host authentication (MAC address),TPM 2.0 (FIPS 140-2 level 2) |
| Network Storage | NAS (NFS, SMB/CIFS),auto network replenishment (ANR) |
| Client | iVMS-4200,HikCentral Pro,Hik-Connect |
| Web Browser | IE 10+, 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,schedule |

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| Wide Dynamic Range (WDR) | [Panoramic channel] 120 dB, [PTZ channel] 120 dB |
| SNR | ≥ 52 dB |
| Defog | Digital defog |
| Image Stabilization | EIS (Built-in gyroscope to improve EIS performance) |
| Image Enhancement | HLC,3D DNR |
| Privacy Mask | [Panoramic channel] 8 programmable polygon privacy masks, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable |
| Regional Focus | Yes |
| Regional Exposure | Yes |
| **Supplement Detection** | |
| Satellite Positioning | No |
| Gyroscope | Yes |
| Compass | No |
| **Interface** | |
| Ethernet Interface | 1 RJ45 10M/100M/1000MM self-adaptive Ethernet port |
| On-board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1024 GB |
| Audio | 1 input (line in), two-core terminal, max. input amplitude: 3.3 vpp, input impedance: 4.7 KΩ,1 output (line out), two-core terminal, max. output amplitude: 3.3 vpp, output impedance: 4.7K Ω |
| Alarm | 7 input(s), 2 output(s) |
| 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** | |
| Basic Event | Motion detection,video tampering alarm,exception,alarm input and output |
| Linkage | Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture |
| Smart Tracking | Manual tracking,auto-tracking,panorama tracking |
| Smart Linkage | 3D positioning, manual tracking, auto tracking, linked tracking capture |
| **Deep Learning Function** | |
| Multi-Target-Type Detection | [PTZ channel] Supports simultaneous detection and capture of human body and face |
| Perimeter Protection | Line crossing detection;intrusion detection;region entrance detection;region exiting detection |
| **General** | |
| Power | 36 VDC± 25%, max. 150 W (Max. 105 W, including max. 12 W for IR)<br>PoE 802.3bt, type4, class8, max. 90W (Max. 71.3W, including max. 12 W for IR) |
| Dimension | Ø402.37 mm × 363.22 mm (Ø15.84" × 14.3") |
| Material | ADC12 |
| Weight | Weight Approx. 9.67 kg (21.32 lb.) With Package Weight Approx. 12.69 kg (27.98 lb.) |
| Operating Condition | -40 °C to 70 °C (-40 °F to 158 °F). Humidity 95% or less (non-condensing),For speaker: -30 °C to 55°C (-22°F to 122°F) |
| General Function | mirror,password protection |
| Wiper | No |
| Demist | Yes |

| | |
|---|---|
| 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 | CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013 + A1: 2019, EN 50130-4: 2011 + A1: 2014) |
| Safety | CE-LVD (EN 62368-1: 2014/A11: 2017) |
| Environment | CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No 1907/2006) |
| Protection | IP67 (IEC 60529-2013),TVS 6000 V lightning protection, surge protection and voltage transient protection |
| Anti-Corrosion Protection | NEMA 4X (NEMA 250-2018) |

## ▪ 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 |
| [PTZ channel] Distance (Tele) | 4320.0 m (14173.23 ft.) | 1714.3 m (5624.35 ft.) | 864.0 m (2834.65 ft.) | 432.0 m (1417.32 ft.) |
| [Panoramic channel] Distance | 56.0 m ((183.73 ft.) | 22.2 m ((72.80 ft.) | 11.2 m (36.75 ft.) | 5.6 m (18.37 ft.) |

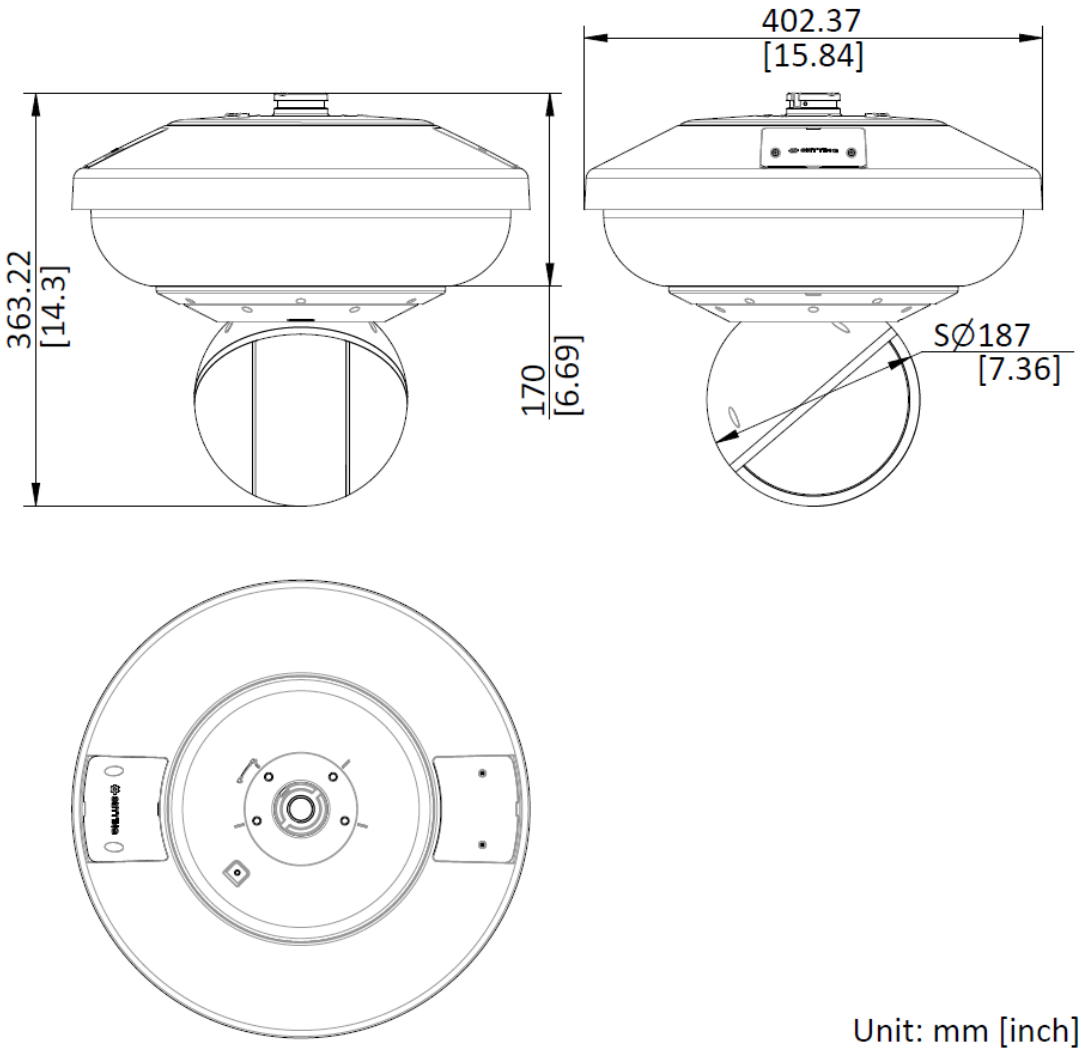
## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

DS-2DP7D836IXG1-LEF and has NO SPECIFIC PROTECTION.
DS-2DP7D836IXG1-LEFY has MODERATE 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

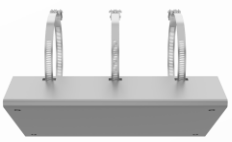
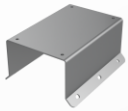



Unit: mm [inch]

| SCALE | 1:1 |
|---|---|

## ▪ Accessory

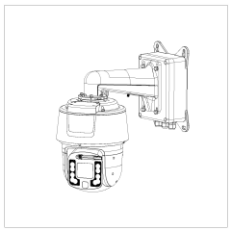
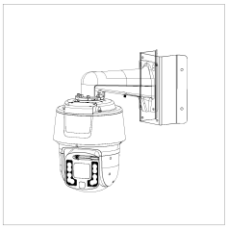
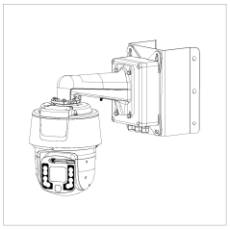
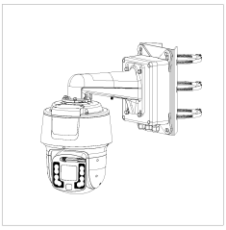
### ▪ Optional

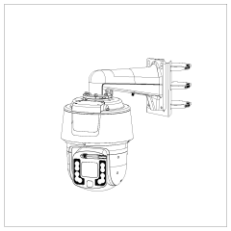
| DS-1674ZJ-P-Y | DS-1673ZJ-P-Y | DS-1276ZJ-P-Y | DS-4650ZJ-PSLY | DS-4660ZJ-PSLY |
|---|---|---|---|---|
|  |  |  |  |  |
| **DS-4603ZJ-PAAC** | **DS-4612ZJ-PAAC** | **DS-1684ZJ-P-Y** | | |





## ▪ Installation Methods

| Junction Box<br>DS-1674ZJ-P-Y+DS-4603ZJ-PAAC | Horizontal Pole Mounting<br>DS-1673ZJ-P-Y+DS-4612ZJ-PAAC | Corner Mounting<br>DS-1276ZJ-P-Y+DS-4603ZJ-PAAC | Corner Mounting<br>DS-4660ZJ-PSLY+DS-4603ZJ-PAAC+DS-1674ZJ-P-Y | Vertical Pole Mounting<br>DS-4650ZJ-PSLY+DS-4603ZJ-PAAC+DS-1674ZJ-P-Y |
|---|---|---|---|---|
|  |  |  |  |  |

| Vertical Pole Mounting<br>DS-1684ZJ-P-Y+DS-4603ZJ-PAAC | Wall Mounting<br>DS-4603ZJ-PAAC | Pendant Mounting<br>DS-4612ZJ-PAAC |
|---|---|---|
|  |  |  |

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