

## iDS-2CD7186G2/LM-IZHSY 8MP DeepinViewX Moto Varifocal Dome Camera

DarkFighter<sup>2.0</sup>

DeepinView X



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 protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 8 MP resolution
- Excellent low-light performance via DarkFighter2.0 technology
- Clear imaging against strong back light due to 140 dB WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- Built-in dual MIC and speaker
- Supports Guanlan large model algorithms, license plate recognition, vehicle attribute analysis, perimeter protection, AIOP with built-in PPE detection model
- Capable of loading trained large model algorithm packages from the AI training platform

## ▪ Function

Powered by Guanlan large model, the camera supports following deep learning functions:

### Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leaves, lights, animal, flag, etc.

### Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

### Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

### Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

### Activity Analysis

With the embedded deep learning algorithms, the camera detects abnormal event of people in the specified region.



## ▪ Specification

| Camera                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Max. Resolution        | 3840 × 2160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Min. Illumination      | Color: 0.002 Lux @ (F1.2, AGC ON), B/W: 0.0002 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Shutter Time           | 1 s to 1/100,000 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Day & Night            | IR cut filter,<br>Blue glass module (less ghost phenomenon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Lens                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Focal Length & FOV     | 2.8 to 12 mm, horizontal FOV 112.0° to 47.5°, vertical FOV 58.0° to 26.6°, diagonal FOV 137.5° to 54.6°<br>8 to 32 mm, horizontal FOV 41.8° to 15.0°, vertical FOV 22.9° to 8.5°, diagonal FOV 48.7° to 17.1°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Focus                  | Auto, Semi-auto, Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Iris Type              | P-iris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Aperture               | 2.8 to 12 mm: F1.4 to F2.1<br>8 to 32 mm: F1.7 to F1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DORI                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| OODPCVS                | <p>Wide:</p> <p>2.8 to 12 mm: Overview: 110.0 m, Outline: 55.0 m, Discern: 27.5 m, Perceive: 17.6 m, Characterize: 8.8 m, Validate: 4.4 m, Scrutinize: 1.5 m<br/>8 to 32 mm: Overview: 272.5 m, Outline: 136.3 m, Discern: 68.1 m, Perceive: 43.6 m, Characterize: 21.8 m, Validate: 10.9 m, Scrutinize: 3.6 m</p> <p>Tele:</p> <p>2.8 to 12 mm: Overview: 232.5 m, Outline: 116.3 m, Discern: 58.1 m, Perceive: 37.2 m, Characterize: 18.6 m, Validate: 9.3 m, Scrutinize: 3.1 m<br/>8 to 32 mm: Overview: 725.0 m, Outline: 362.5 m, Discern: 181.3 m, Perceive: 116.0 m, Characterize: 58.0 m, Validate: 29.0 m, Scrutinize: 9.7 m</p> <p>The OODPCVS values are calculated using pixel densities for different use cases as recommended by the IEC/EN 62676-4:2025 standard. IEC 62676-4:2025 describes the planning, design, installation, testing, commissioning, and maintaining of video surveillance systems (VSS) comprising image capture device(s), interconnection(s) and image handling device(s), for use in security applications within private or public spaces.</p> |
| Illuminator            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Supplement Light Type  | IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Supplement Light Range | 2.8 to 12 mm: Monitoring: 40 m; 8 to 32 mm: Monitoring: 60 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Smart Supplement Light | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| IR Wavelength          | 850 nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| AI Open Platform            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Specification         | <p>1. Up to 3 models. Model type: detection model, classification model, mixed model (detection model and classification model).</p> <p>2. Supports video analysis (detection, classification, mixed, OCR, segmentation, comparison) and scheduled capture analysis (classification).</p> <p>(1) Detection: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule, area overlap ratio counting, area overlap ratio exception detection.</p> <p>(2) Classification: Region exception status detection, full analysis rule.</p> <p>(3) Mixed: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule; area overlap ratio counting, area overlap ratio exception detection.</p> <p>(4) Picture Comparison: Area status change detection.</p> <p>(5) OCR: OCR-triggered capture.</p> <p>(6) OVD: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule, area overlap ratio counting, area overlap ratio exception detection.</p> <p>3. Supports 4 model packages, each capable of detecting 16 target types and classifying 4 targets. The targets can be classified as 64 types. The device runs only 1 model at the same time.</p> <p>4. Built-in models for PPE detection (hard hat and reflective clothing).</p> |
| Video                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Main Stream                 | 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sub-Stream                  | 50 Hz: 25 fps (704 × 576, 640 × 480)<br>60 Hz: 30 fps (704 × 480, 640 × 480)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Third Stream                | 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Video Bit Rate              | 32 Kbps to 16 Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| H.264 Type                  | Baseline Profile, Main Profile, High Profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| H.265 Type                  | Main Profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Bit Rate Control            | CBR, VBR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Region of Interest (ROI)    | 4 fixed regions for each stream                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Target Cropping             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| e-PTZ                       | Support Patrol and Auto Tracking settings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| AI Encoding                 | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Audio                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Audio Type                  | Mono sound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Audio Bit Rate              | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/48 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Network</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Protocols                   | IPv6,RTP,ICMP,PPPoE,DNS,WebSocket,TCP/IP,SSL/TLS,HTTPS,RTSP,IGMP,SNMP,NTP,S<br>MTP,WebSockets,SFTP,UPnP,DHCP,802.1X,IPv4,FTP,UDP,QoS,RTCP,HTTP,DDNS                                                                                                                                                                                                                                                                  |
| Simultaneous Live View      | Up to 20 channels                                                                                                                                                                                                                                                                                                                                                                                                    |
| API                         | ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)                                                                                                                                                                                                                                                                                                                                               |
| User/Host                   | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                                                                                                                   |
| Security                    | Password protection, control timeout settings, IP address filter, RTP/RTSP over HTTPS,<br>HTTPS encryption, 802.1X authentication(EAP-LEAP,EAP-TLS,EAP-MD5,EAP-PEAP),<br>complicated password, TLS 1.3, security audit log, basic and digest authentication for<br>HTTP/HTTPS, AES128/256, TLS 1.2, host authentication (MAC address), watermark,<br>WSSE and digest authentication for Open Network Video Interface |
| Network Storage             | NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),<br>Together with high-end Hikvision memory card, memory card encryption and health<br>detection are supported.                                                                                                                                                                                                                                                 |
| Client                      | iVMS-4200,Hik-Connect,Hik-Central                                                                                                                                                                                                                                                                                                                                                                                    |
| Web Browser                 | Plug-in required live view: IE 10, IE 11,<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+                                                                                                                                                                                                                                      |
| <b>Image</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Image Settings              | Rotate mode,saturation,brightness,contrast,sharpness,white balance,AGC,adjustable<br>by client software or web browser                                                                                                                                                                                                                                                                                               |
| Day/Night Switch            | Day,Night,Auto,Schedule                                                                                                                                                                                                                                                                                                                                                                                              |
| Wide Dynamic Range (WDR)    | 140 dB                                                                                                                                                                                                                                                                                                                                                                                                               |
| Image Enhancement           | BLC,HLC,3D DNR,Distortion Correction,Defog                                                                                                                                                                                                                                                                                                                                                                           |
| Privacy Mask                | 8 programmable polygon privacy masks                                                                                                                                                                                                                                                                                                                                                                                 |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                                                                                              |
| Picture Overlay             | LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.                                                                                                                                                                                                                                                                                                                                              |
| Image Stabilization         | EIS                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AI Noise Reduction          | No                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Interface</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Video Output                | 1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)                                                                                                                                                                                                                                                                                                                                                             |
| Ethernet Interface          | 1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                                                                                 |
| On-Board Storage            | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB                                                                                                                                                                                                                                                                                                                                      |
| Built-in Microphone         | 2 built-in microphones                                                                                                                                                                                                                                                                                                                                                                                               |
| Alarm                       | 2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)                                                                                                                                                                                                                                                                                                                                                                        |
| Built-in Speaker            | 1 built-in speaker,Max. power consumption: 1.5 W                                                                                                                                                                                                                                                                                                                                                                     |
| Audio                       | 1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,<br>input impedance: 4.7 KΩ, interface type: non-equilibrium,<br>1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp,<br>output impedance: 100 Ω, interface type: non-equilibrium, mono sound                                                                                                     |
| RS-485                      | 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)                                                                                                                                                                                                                                                                                                                                                   |
| Reset Key                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Output                | 12VDC,max.100mA,External extension cord less than 10 meters.                                                                                                                                                                                                                                                                                                                                                         |

| Event                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Event                        | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, video quality diagnosis, exception (network disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error)                                                                                                                                                                                                                                                                                                                                 |
| Smart Event                        | scene change detection, audio exception detection, defocus detection, unattended baggage detection, loitering detection, object removal detection, people gathering detection, fast moving detection, parking detection                                                                                                                                                                                                                                                                                                                                                                |
| Linkage                            | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Deep Learning Function             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Multi-target-type Detection        | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Face Capture                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Face Comparison                    | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Activity Analysis                  | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Perimeter Protection               | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle)<br>Support combined event alarm triggering                                                                                                                                                                                                                                                                                                                                                                                                         |
| Metadata                           | Intrusion detection, line crossing detection, region entrance detection, region exiting detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Road Traffic and Vehicle Detection | Accuracy (under recommended installation and lighting conditions)<br>Capture rate > 98%<br><br>Vehicle moving direction recognition accuracy > 96%<br><br>Mistaken capture rate < 2% (entrance/exit), < 5% (checkpoint)<br><br>Blocklist and allowlist: up to 10000 records<br>Captures vehicle that has no license plate<br>Supports license plate recognition of motorcycles (only in checkpoint scenario)<br>Powered by Guanlan large model algorithm, the camera supports detecting vehicle attribute, including vehicle type, color, brand, etc. City Street mode is recommended. |
| General                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power                              | three-core terminal block,<br>12 VDC $\pm$ 20%, 1.51 A, max. 18.1 W,<br>24 VAC $\pm$ 20%, 1.3 A, max. 17.9 W,<br>PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.39 A to 0.29 A, max. 18.7 W                                                                                                                                                                                                                                                                                                                                                                                     |
| Material                           | Aluminum alloy body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dimension                          | $\varnothing$ 144.3 mm $\times$ 114.1 mm ( $\varnothing$ 5.7" $\times$ 4.5")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Package Dimension                  | 244 mm $\times$ 174 mm $\times$ 173 mm (9.6" $\times$ 6.9" $\times$ 6.8")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Weight                             | Approx. 1100 g (2.43 lb.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| With Package Weight                | Approx. 1482 g (3.27 lb.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage Conditions                 | -40 $^{\circ}$ C to 65 $^{\circ}$ C (-40 $^{\circ}$ F to 149 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Startup and Operating Conditions   | -40 $^{\circ}$ C to 65 $^{\circ}$ C (-40 $^{\circ}$ F to 149 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                            |                                                                                                                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Language                   | 32 languages : English,Traditional Chinese,Bulgarian,Hungarian,Greek,German,Italian,Czech,Slovak,French,Polish,Dutch,Portuguese,Spanish,Russian,Japanese,Turkish,Korean,Thai,Estonian,Vietnamese,Romanian,Danish,Swedish,Norwegian,Finnish,Croatian,Slovenian,Serbian,Lithuanian,Portuguese (Brazil),Ukrainian |
| General Function           | Heartbeat,anti-banding,one-key reset,mirror,password protection,flash log                                                                                                                                                                                                                                      |
| Heater                     | Yes                                                                                                                                                                                                                                                                                                            |
| Device Management          | Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces                                                                                                                                                                                                    |
| Integrated Connector Panel | No                                                                                                                                                                                                                                                                                                             |
| <b>Approval</b>            |                                                                                                                                                                                                                                                                                                                |
| EMC                        | CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, RCM: AS/NZS CISPR 32: 2015                                                                                                                                                           |
| Safety                     | CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017, LOA: IEC/EN 60950-1                                                                                                                                                                                                                             |
| Environment                | CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006                                                                                                                                                                                                                                     |
| Protection                 | IP67: IEC 60529-2013, IK10: IEC 62262:2002                                                                                                                                                                                                                                                                     |
| Anti-Corrosion Protection  | NEMA 4X (NEMA 250-2018)                                                                                                                                                                                                                                                                                        |
| Other                      | PVC FREE                                                                                                                                                                                                                                                                                                       |

## ▪ Typical Application

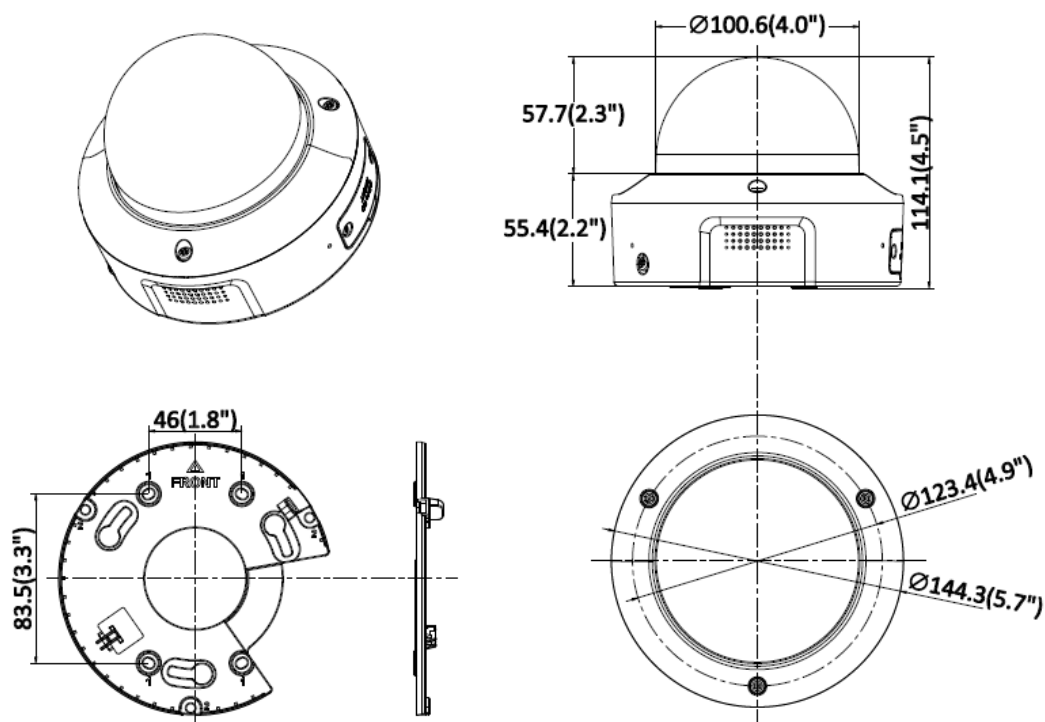
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

With -Y model: This model has MODERATE PROTECTION.

Without -Y model: 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



Unit:mm (inch)

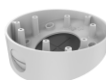
| Camera Mounting Hole<br>(mm) | Camera Mounting Hole<br>(inch) |
|------------------------------|--------------------------------|
| Double Gang(4* $\phi$ 4.5)   | Double Gang(4* $\phi$ 0.2")    |

## ▪ Accessory

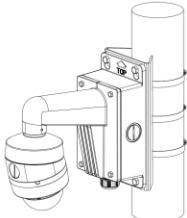
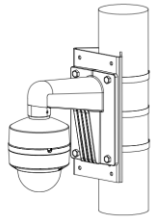
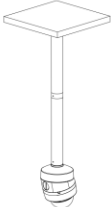
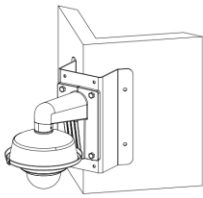
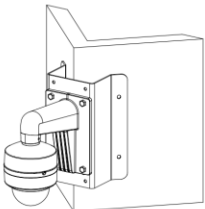
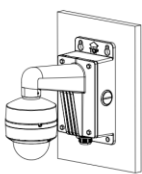
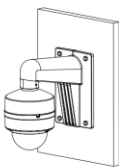
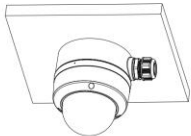
### ▪ Optional

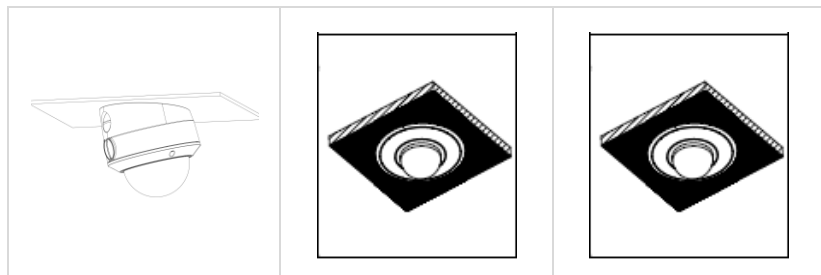
| DS-1475ZJ-SUS          | DS-2210ZJ-WA-140 | DS-1475ZJ-Y | DS-1476ZJ-SUS  | DS-2200ZJ-WAJ-140 |
|------------------------|------------------|-------------|----------------|-------------------|
|                        |                  |             |                |                   |
| DS-1271ZJ-140-DM<br>45 | DS-2280ZJ-WA140  | DS-1476ZJ-Y | DS-1281ZJ-DM23 | DS-4220ZJ-WC      |



|                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| <b>DS-1227ZJ-DM32</b>                                                             | <b>DS-2200ZJ-WA-140</b>                                                           | <b>DS-1273ZJ-160-AK</b><br><b>S</b>                                               |                                                                                     |                                                                                     |
|  |  |  |                                                                                     |                                                                                     |

## ■ Installation Methods

|                                                                                        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Vertical Pole Mounting</b><br><b>DS-1475ZJ-SUS+DS-1281ZJ-DM23+DS-2200ZJ-WAJ-140</b> | <b>Vertical Pole Mounting</b><br><b>DS-1475ZJ-Y+DS-1273ZJ-160-AKS</b>               | <b>Pendant Mounting</b><br><b>DS-2210ZJ-WA-140+DS-1281ZJ-DM23</b>                   | <b>Pendant Mounting</b><br><b>DS-1271ZJ-140-DM45</b>                                  | <b>Corner Mounting</b><br><b>DS-1476ZJ-SUS+DS-1253ZJ-L+DS-2200ZJ-WA-140</b>           |
|     |  |  |  |  |
| <b>Corner Mounting</b><br><b>DS-1476ZJ-Y+DS-1273ZJ-160-AKS</b>                         | <b>Wall Mounting</b><br><b>DS-2200ZJ-WAJ-140</b>                                    | <b>Wall Mounting</b><br><b>DS-2200ZJ-WA-140</b>                                     | <b>Wall Mounting</b><br><b>DS-1273ZJ-160-AKS</b>                                      | <b>Junction Box</b><br><b>DS-2280ZJ-WA140</b>                                         |
|     |  |  |  |  |
| <b>Inclined Ceiling Mounting</b><br><b>DS-1281ZJ-DM23</b>                              | <b>In-Ceiling Mounting</b><br><b>DS-4220ZJ-WC</b>                                   | <b>In-Ceiling Mounting</b><br><b>DS-1227ZJ-DM32</b>                                 |                                                                                       |                                                                                       |



# See Far, Go Further



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