

## iDS-2CD7546G2/P-XZHS(Y) 4MP DeepinView PTRZ ANPR Moto Varifocal Dome Camera

DeepinView<sup>series</sup>

DarkFighter<sup>2.0</sup>



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 4 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 150 dB AWDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- High frame rate, up to 2MP@120fps and 4MP@60fps
- Built-in G-sensor for vibration detection
- Built-in power meter for historical power statistics
- License plate recognition and vehicle attribution recognition
- Unique PTRZ capability for efficient installation and configuration

## ▪ Function

### 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.

### 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.

## ▪ Specification

| Camera                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Max. Resolution        | 2688 × 1520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Min. Illumination      | Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Angle Adjustment       | Pan: 0° to 355°, tilt: 0° to 85°, rotate: 0° to 355°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Lens                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Lens Type              | Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Focal Length & FOV     | 2.8 to 12 mm, horizontal FOV 114.6° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV 141.3° to 48.1°<br>8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Focus                  | Auto, Semi-auto, Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Iris Type              | P-iris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Aperture               | 2.8 to 12 mm: F1.47 to F2.53, 8 to 32 mm: F1.7 to F1.73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DORI                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OODPCVS                | <p>Wide:</p> <p>2.8 to 12 mm: Overview: 75.0 m, Outline: 37.5 m, Discern: 18.8 m, Perceive: 12.0 m, Characterize: 6.0 m, Validate: 3.0 m, Scrutinize: 1.0 m</p> <p>8 to 32 mm: Overview: 187.9 m, Outline: 94.0 m, Discern: 47.0 m, Perceive: 30.1 m, Characterize: 15.0 m, Validate: 7.5 m, Scrutinize: 2.5 m</p> <p>Tele:</p> <p>2.8 to 12 mm: Overview: 186.2 m, Outline: 93.1 m, Discern: 46.6 m, Perceive: 29.8 m, Characterize: 14.9 m, Validate: 7.4 m, Scrutinize: 2.5 m</p> <p>8 to 32 mm: Overview: 500.0 m, Outline: 250.0 m, Discern: 125.0 m, Perceive: 80.0 m, Characterize: 40.0 m, Validate: 20.0 m, Scrutinize: 6.7 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, White Light                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| HEOP                        |                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Open Resources              | Memory: 150 MB,<br>Smart RAM: 2200 MB,<br>eMMC: 1288 MB                                                                                                                                                                                                                                                                                                                  |
| Computing Power             | 2.5 TOPS                                                                                                                                                                                                                                                                                                                                                                 |
| Open Capability             | HEOP 2.0 OpendevSDK                                                                                                                                                                                                                                                                                                                                                      |
| Deep Learning Structure     | Caffe,PyTorch,TensorFlow                                                                                                                                                                                                                                                                                                                                                 |
| Programming Language        | C,C++                                                                                                                                                                                                                                                                                                                                                                    |
| Video                       |                                                                                                                                                                                                                                                                                                                                                                          |
| Main Stream                 | Monitoring mode:<br>50 Hz: up to 50 fps (2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080)<br>60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080)<br>*High frame rate is supported under monitoring mode only.<br>smart mode:<br>50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream                  | 50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)<br>60 Hz: 30 fps (1280 × 720, 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)                                                                                                                                                                                                                                           |
| Fourth Stream               | 50 Hz: 25 fps (704 × 576, 640 × 480)<br>60 Hz: 30 fps (704 × 480, 640 × 480)                                                                                                                                                                                                                                                                                             |
| Fifth Stream                | 50 Hz: 25 fps (704 × 576, 640 × 480)<br>60 Hz: 30 fps (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,<br>Fourth stream: H.265/H.264/MJPEG,<br>Fifth stream: H.265/H.264/MJPEG                                                                                                                                                                                          |
| Video Bit Rate              | 32 Kbps to 8 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                                                                                                                                                                                                                                                                                                                                                                      |
| 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                                                                                                                                                                                                                                                                                                                                                                      |

| Network                  |                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocols                | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, SRTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, WebSocket, WebSockets, MQTT/MQTTs, RTMP. Support X.509 authentication ,<br><br>Support 802.1x EAP-GTC and MSCHAP V2 ; 802.1x EAP 1.2 supports a maximum 32-bit key.                                                                        |
| 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, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256 |
| Smooth Streaming         | Yes                                                                                                                                                                                                                                                                                                                                                                                           |
| Network Storage          | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR), Cloud Storage,<br>Together with high-end Hikvision memory card, memory card encryption and health 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+                                                                                                                                                                                                               |
| Image                    |                                                                                                                                                                                                                                                                                                                                                                                               |
| Image Parameters Switch  | Yes                                                                                                                                                                                                                                                                                                                                                                                           |
| Image Settings           | Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client software or web browser                                                                                                                                                                                                                                                                    |
| Day/Night Switch         | Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger                                                                                                                                                                                                                                                                                                                                      |
| Wide Dynamic Range (WDR) | 150 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                                                                                                                                                                                                                                                                                                                                                                                           |
| Interface                |                                                                                                                                                                                                                                                                                                                                                                                               |
| 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                                                                                                                                                                                                                                                                                                                                                                            |

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio                              | 1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,<br>1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , 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                       | 12 VDC, max. 100 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Wiegand                            | 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72 bit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Event</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Basic Event                        | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), glass break detection, scream detection, gunshot and explosion sound detection, crying sound detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Smart Event                        | Line crossing detection, intrusion detection, region entrance detection, region exiting detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Linkage                            | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning, HTTP custom alarm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Deep Learning Function</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Road Traffic and Vehicle Detection | <p>Smart Function:</p> <p>Support license plate recognition of vehicles and motorcycles (only in checkpoint scenario)</p> <p>Support vehicle attribute detection, including vehicle type, color, brand, driving direction, etc.</p> <p>Support vehicle and non-vehicle counting</p> <p>Blocklist and allowlist: up to 50,000 records</p> <p>LPR Countries/Regions:</p> <p>4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions</p> <p>Accuracy (Under recommended installation and lighting conditions):</p> <p>License plate recognition rate <math>\geq 98\%</math></p> <p>Capture rate <math>\geq 99\%</math></p> <p>Driving direction accuracy rate <math>\geq 98\%</math></p> <p>Vehicle Capture Speed:</p> <p>Front installation in checkpoint scenario: up to 120 km/h</p> <p>Side installation: up to 80 km/h</p> <p>Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode</p> <p>Supports license plate recognition in detection area or lane line in the entrance and exit.</p> <p>Supports Reverse License Plate Secondary Detection. If the vehicle is always in the camera view, when it triggers one capture, another capture will be triggered when it backs out of parking lot.</p> |

|                                  |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parking Management               | Support distant view mode and close view mode<br>Distant view mode: support status detection on up to 40 parking spaces, parking duration detection, and vacant parking space alarm<br>Close view mode: support status detection on up to 4 parking spaces, license plate recognition, parking timeout alarm, and vacant parking space alarm          |
| AcuSeek                          | Support searching for humans, license plates, vehicles, non-motorized vehicles, and animals and uploading the feature information. This function requires use with AcuSeek NVR/Servers.                                                                                                                                                               |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                       |
| Power                            | 12 VDC $\pm$ 20%, 1.87 A, max. 22.4 W, two-core terminal block,<br>PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.53 A to 0.4 A, max. 22.4 W                                                                                                                                                                                                   |
| Material                         | Aluminum alloy body                                                                                                                                                                                                                                                                                                                                   |
| Dimension                        | $\varnothing$ 155 mm $\times$ 140.4 mm ( $\varnothing$ 6.10" $\times$ 5.53")                                                                                                                                                                                                                                                                          |
| Package Dimension                | 206 mm $\times$ 206 mm $\times$ 230 mm (8.12" $\times$ 8.12" $\times$ 9.06")                                                                                                                                                                                                                                                                          |
| Weight                           | Approx. 1300 g (2.87 lb.)                                                                                                                                                                                                                                                                                                                             |
| With Package Weight              | Approx. 1980 g (4.37 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                         | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian |
| 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. Supports adding network microphone and speaker.                                                                                                                                                                                          |
| 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,<br>RCM: AS/NZS CISPR 32: 2015,<br>IC: ICES-003: Issue 7,<br>KC: KN32: 2015, KN35: 2015                                                                                                                                      |
| Safety                           | CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017,<br>BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005,<br>LOA: IEC/EN 60950-1                                                                                                                                                                                                           |
| Environment                      | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006                                                                                                                                                                                                                                                                      |
| Protection                       | IP67: IEC 60529-2013, IK10: IEC 62262:2002                                                                                                                                                                                                                                                                                                            |
| Anti-Corrosion Protection        | -Y: 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.

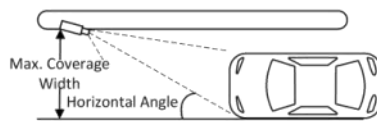
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                                  |

## Installation Recommendation

### Entrance/Exit

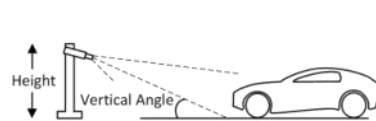
#### Horizontal Angle

The view angle of the camera should be within 30° to the path of movement.



#### Vertical Angle

The angle between the lens direction and the horizontal should be less than 30°.

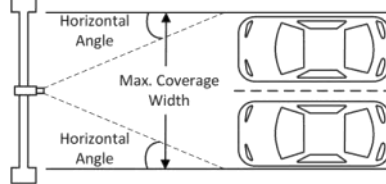


### Side of the Lane

### City Street

#### Horizontal Angle

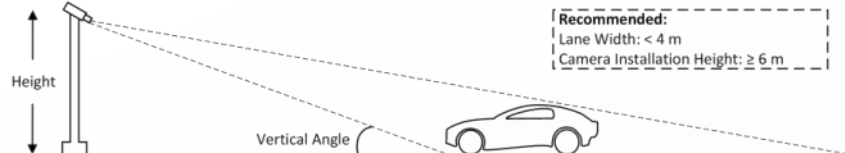
The horizontal angle should not exceed 30°.



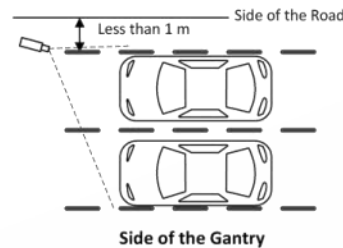
### Middle of the Road

#### Vertical Angle

The angle between the lens direction and the horizontal should be less than 30°.



**Recommended:**  
Lane Width: < 3.5 m  
Camera Installation Height: 1.6 to 2 m



### Side of the Gantry

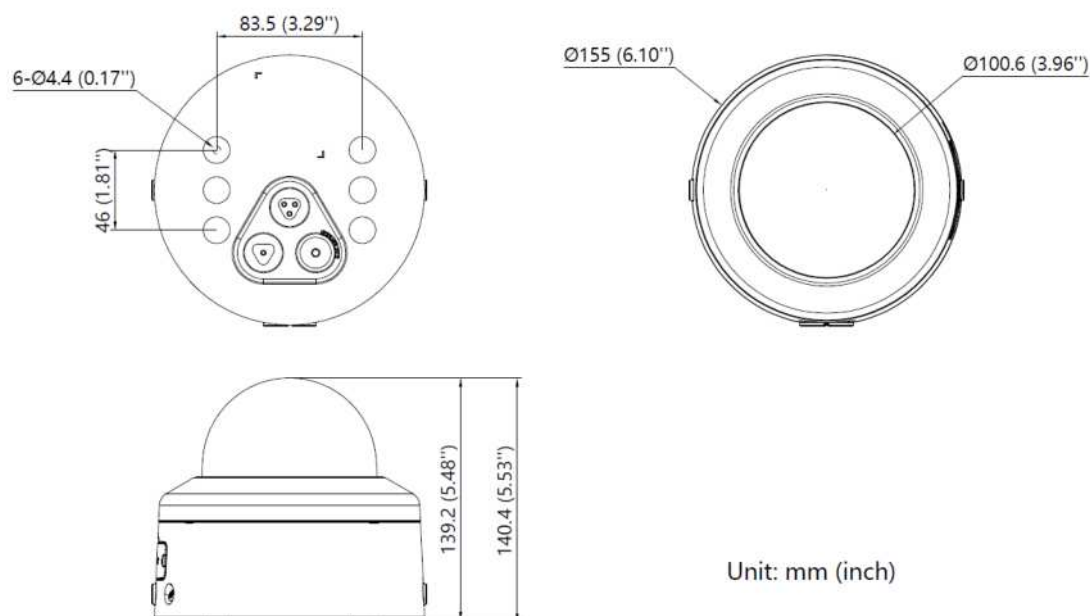
**Recommended:**  
Lane Width: < 4 m  
Camera Installation Height: ≥ 6 m

| Camera Position  | Lens         | Height (m) | Suggested Vertical Angle | Suggested Trigger Distance (m) | Max. Coverage Width | Max. Horizontal Angle | Vertical Angle Range | Capture Range (m) |
|------------------|--------------|------------|--------------------------|--------------------------------|---------------------|-----------------------|----------------------|-------------------|
| Side of the Lane | 2.8 to 12 mm | 1.5        | 20°                      | 4                              | 4.5                 | 30°                   | 15° to 30°           | 2.5 to 5.5        |
| Side of the Lane | 2.8 to 12 mm | 2          | 20°                      | 5.5                            | 4.5                 | 30°                   | 15° to 30°           | 3.5 to 7.5        |
| Side of the      | 2.8 to 12    | 2.5        | 20°                      | 6.5                            | 4.5                 | 30°                   | 15° to               | 4.5 to 9          |

|                    |            |   |     |      |    |     |            |           |
|--------------------|------------|---|-----|------|----|-----|------------|-----------|
| Lane               | mm         |   |     |      |    |     | 30°        |           |
| Side of the Lane   | 8 to 32 mm | 3 | 20° | 8    | 6  | 30° | 15° to 30° | 5 to 11   |
| Side of the Lane   | 8 to 32 mm | 4 | 20° | 11   | 6  | 30° | 15° to 30° | 6 to 14   |
| Side of the Lane   | 8 to 32 mm | 5 | 20° | 13.5 | 6  | 30° | 15° to 30° | 8.5 to 18 |
| Side of the Lane   | 8 to 32 mm | 6 | 20° | 16.5 | 6  | 30° | 15° to 30° | 10 to 22  |
| Middle of the Road | 8 to 32 mm | 3 | 20° | 8    | 12 | 30° | 15° to 30° | 5 to 11   |
| Middle of the Road | 8 to 32 mm | 4 | 20° | 11   | 12 | 30° | 15° to 30° | 6 to 14   |
| Middle of the Road | 8 to 32 mm | 5 | 20° | 13.5 | 12 | 30° | 15° to 30° | 8.5 to 18 |
| Middle of the Road | 8 to 32 mm | 6 | 20° | 16.5 | 12 | 30° | 15° to 30° | 10 to 22  |

\*Note: The installation diagram is for reference only. The actual scenario and appearance may vary.

## ▪ Dimension



Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

DS-1473ZJ-155

DS-1476ZJ-SUS

DS-1471ZJ-155-Y

DS-1475ZJ-SUS

DS-1473ZJ-155-Y

|                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| <b>DS-1476ZJ-Y</b>                                                                | <b>DS-1471ZJ-155</b>                                                              | <b>DS-1475ZJ-Y</b>                                                                |                                                                                     |                                                                                     |
|  |  |  |                                                                                     |                                                                                     |

*\*Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y bracket models).*

# See Far, Go Further



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