# DS-2CD2786G2H-IPTRZS2U/S(L)(RB)
# 8 MP AcuSense PTRZ Varifocal Dome Network Camera

AcuSense

DarkFighter







- Motorized Pan, Tilt, Rotate, Zoom for easy installation and monitoring
- Excellent low-light performance via DarkFighterS technology
- Clear imaging against strong back light due to 130 dB WDR technology
- Human and vehicle classification based on deep learning
- Water and dust resistant (IP66) and vandal resistant (IK10)
- Audio and alarm interface available
- Clear two-way audio with dual-array mic
- Active strobe light and audio alarm to warn intruders off

## ▪ Specification

| | |
|---|---|
| **Camera** | |
| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Max. Resolution | 3840 × 2160 |
| Min. Illumination | Color: 0.0008 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR |
| Shutter Time | 1/3 s to 1/100,000 s |
| Day & Night | IR cut filter |
| Angle Adjustment | Pan: 0° to 350°, tilt: 0° to 85°, rotate: 0° to 350° |
| **Lens** | |
| Lens Type | Varifocal lens, motorized lens, 2.8 to 12 mm |
| Focal Length & FOV | 2.8 to 12 mm, horizontal FOV 112.3° to 41.2°, vertical FOV 58.1°to 23.1°, diagonal FOV 137.4°to 47.3° |
| Lens Mount | Integrated |
| Iris Type | Fixed |
| Aperture | Max. F1.2 |
| Depth of Field | 1 m to ∞ |
| **DORI** | |
| DORI | Wide: D: 89 m, O: 35 m, R: 18 m, I: 9 m<br>Tele: D: 220 m, O: 87 m, R: 44 m, I: 22 m |
| **Illuminator** | |
| Supplement Light Type | IR |
| Supplement Light Range | Up to 40 m |
| Smart Supplement Light | Yes |
| IR Wavelength | 850 nm |
| **Video** | |
| Main Stream | 50 Hz:<br>25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz:<br>24 fps (3840 × 2160), 30 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz:<br>25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz:<br>30 fps (1280 × 720, 640 × 480, 640 × 360) |
| Third Stream | 50 Hz:<br>10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz:<br>10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings. |
| Video Compression | Main stream: H.265/H.264/H.264+/H.265+,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264,<br>*Third stream is supported under certain settings. |
| 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) | 1 fixed region for main stream and sub-stream |
| **Audio** | |
| 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/44.1 kHz/48 kHz |
| Environment Noise Filtering | Yes |
| **Network** | |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP |
| Simultaneous Live View | Up to 6 channels |
| API | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP |
| 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 1.1/1.2/1.3, host authentication (MAC address) |
| Network Storage | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR) |
| Client | iVMS-4200, Hik-Connect, Hik-Central |
| Web Browser | Plug-in required live view: IE 11,<br>Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+,<br>Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+ |
| **Image** | |
| Image Parameters Switch | Yes |
| Image Settings | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser |
| Day/Night Switch | Day, Night, Auto, Schedule |
| Image Enhancement | BLC, HLC, 3D DNR |
| SNR | ≥ 52 dB |
| Wide Dynamic Range (WDR) | 130 dB |
| Privacy Mask | 4 programmable polygon privacy masks |
| **Interface** | |
| Ethernet Interface | 1 RJ45 10 M/100 M self-adaptive Ethernet port |
| On-Board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB |
| Built-in Microphone | Yes, 2 built-in microphones |
| Built-in Speaker | 1 built-in speaker, Max. power consumption: 2 W, max. sound pressure level: 10 cm: 97 dB. |
| Audio | 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium,<br>1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium |
| Alarm | 1 input, 1 output (max. 24 VDC/24 VAC, 1 A) |

| | |
|---|---|
| Reset Key | Yes |
| **Event** | |
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception |
| Smart Event | scene change detection |
| Linkage | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning, white light flashing |
| **Deep Learning Function** | |
| Face Capture | Yes |
| Perimeter Protection | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle) |
| **General** | |
| Power | 12 VDC ± 25%, 1.35 A, max. 16 W, reverse polarity protection, two-core terminal block, PoE: IEEE 802.3at, Class 4, max. 18 W |
| Material | Metal |
| Dimension | Ø155 mm × 140.4 mm (Ø6.10" × 5.23") |
| Package Dimension | 203 mm × 203 mm × 230 mm (8.0" × 8.0" × 9.1") |
| Weight | Approx. 840 g (1.9 lb.) |
| With Package Weight | Approx. 1450 g (3.2 lb.) |
| Storage Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Startup and Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| General Function | Heartbeat, mirror, password reset via email, pixel counter, anti-banding, flash log |
| 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 |
| Flashing Light | White Light |
| **Approval** | |
| EMC | CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014,<br>IC: ICES-003: Issue 7,<br>RCM: AS/NZS CISPR 32: 2015 |
| Safety | CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017 |
| Environment | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006 |
| Protection | IK10: IEC 62262:2002, IP66: IEC 60529-2013 |

## ▪ 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.

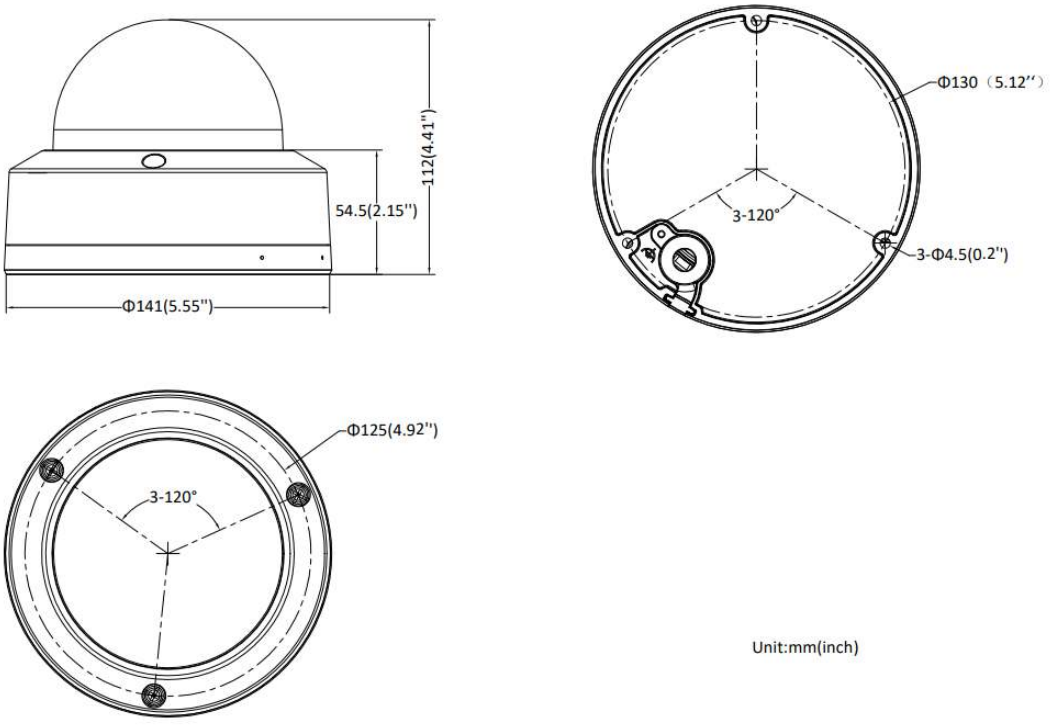
This model has NO SPECIFIC PROTECTION.

| 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. |

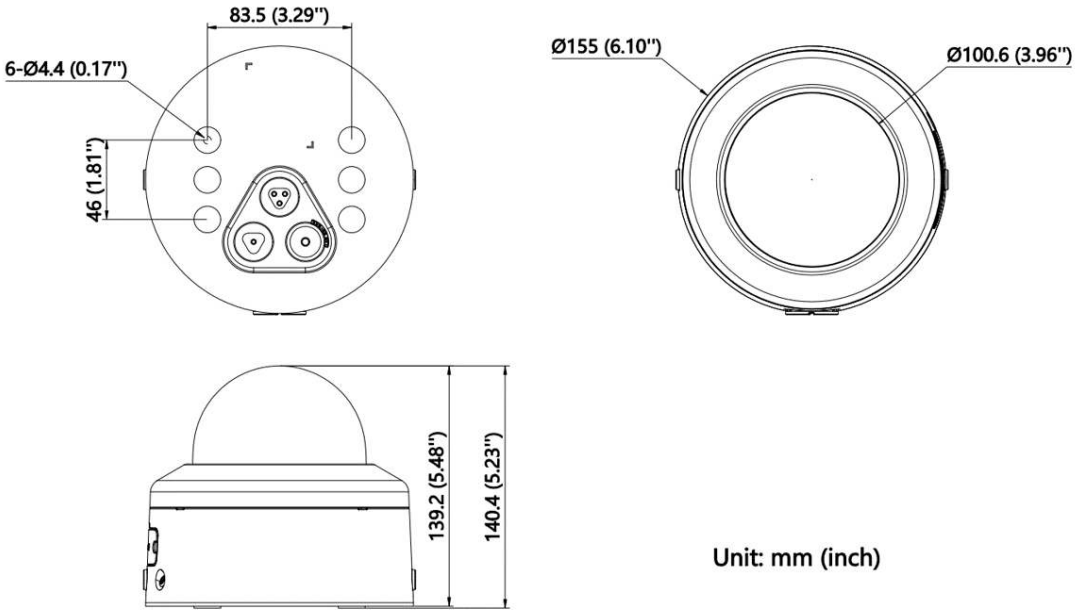
## ▪ Available Model

DS-2CD2786G2H-IPTRZS2U/SL(2.8-12mm)

## ▪ Dimension




Unit:mm(inch)




Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1473ZJ-155<br>Wall mount | DS-1471ZJ-155<br>Pendant Mount | DS-1475ZJ-SUS<br>Vertical pole mount | DS-1476ZJ-SUS<br>Corner mount | DS-1250ZJ<br>Water-proof |
|---|---|---|---|---|
|  |  |  |  |  |

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