

## DS-2CD2T86G2-2I/4I Black 8 MP IR Fixed Bullet Network Camera



- 1/2" Progressive Scan CMOS
- 3840 × 2160 @ 20fps
- 2.8/4/6 mm fixed lens
- 120dB WDR
- Powered by Darkfighter
- H.265+, H.265, H.264+, H.264
- Built-in micro SD/SDHC/SDXC card slot, up to 256 GB
- IP67
- **Human and vehicle classification alarm** based on deep learning.

### AcuSense

Empowered by deep learning algorithms, Hikvision AcuSense technology brings human or vehicle target classification alarms to front- and back-end devices. The system can greatly reduce false alarms generated by targets other than humans or vehicles, vastly improving alarm efficiency and effectiveness.



## Specifications

| Camera                                                                                      |                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                                                                                | 1/2" Progressive Scan CMOS                                                                                                                                                                                               |
| Min. Illumination                                                                           | Color: 0.014 Lux @ (F1.6, AGC ON), 0 Lux with IR                                                                                                                                                                         |
| Shutter Speed                                                                               | 1/3 s to 1/100,000 s                                                                                                                                                                                                     |
| Slow Shutter                                                                                | Yes                                                                                                                                                                                                                      |
| Day & Night                                                                                 | IR Cut Filter                                                                                                                                                                                                            |
| WDR                                                                                         | 120 dB                                                                                                                                                                                                                   |
| Angle Adjustment                                                                            | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°                                                                                                                                                                     |
| Lens                                                                                        |                                                                                                                                                                                                                          |
| Lens Type                                                                                   | Fixed lens, 2.8/4/6 mm                                                                                                                                                                                                   |
| Aperture                                                                                    | F1.6                                                                                                                                                                                                                     |
| FOV                                                                                         | 2.8 mm, horizontal FOV: 110.7°, vertical FOV: 59.1°, diagonal FOV: 131°<br>4 mm, horizontal FOV: 87.1°, vertical FOV: 47.4°, diagonal FOV: 101.8°<br>6 mm, horizontal FOV: 50.8°, vertical FOV: 27.6°, diagonal FOV: 60° |
| Lens Mount                                                                                  | M16                                                                                                                                                                                                                      |
| Illuminator                                                                                 |                                                                                                                                                                                                                          |
| IR Range                                                                                    | -2I: up to 50 m<br>-4I: up to 80 m                                                                                                                                                                                       |
| Wavelength                                                                                  | 850 nm                                                                                                                                                                                                                   |
| Video                                                                                       |                                                                                                                                                                                                                          |
| Max. Resolution                                                                             | 3840 × 2160                                                                                                                                                                                                              |
| Main Stream                                                                                 | 50Hz: 20fps (3840 × 2160, 3072 × 1728), 25fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60Hz: 20fps (3840 × 2160, 3072 × 1728), 30fps (2688 × 1520, 1920 × 1080, 1280 × 720)                                             |
| Sub-Stream                                                                                  | 50Hz: 25fps (640 × 480, 640 × 360, 320 × 240)<br>60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)                                                                                                                           |
| Third Stream                                                                                | 50Hz: 25fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240)<br>60Hz: 30fps (1280 × 720, 640 × 480, 640 × 360, 320 × 240)                                                                                                   |
| Video Compression                                                                           | Main stream: H.265+/H.264+/H.265/H.264<br>Sub-stream: H.265/H.264/MJPEG<br>Third stream: H.265/H.264                                                                                                                     |
| H.264 Type                                                                                  | Baseline Profile/Main Profile/High Profile                                                                                                                                                                               |
| H.265 Type                                                                                  | Main Profile                                                                                                                                                                                                             |
| Video Bit Rate                                                                              | 32 Kbps to 16 Mbps                                                                                                                                                                                                       |
| Scalable Video Coding (SVC)                                                                 | H.264 and H.265 encoding support                                                                                                                                                                                         |
| * When the main stream resolution is 3840 × 2160, max frame rate is 20 fps for all streams. |                                                                                                                                                                                                                          |
| Smart Feature-Set                                                                           |                                                                                                                                                                                                                          |
| Perimeter Protection                                                                        | Line crossing detection, intrusion detection, region entrance detection, region exiting detection (Human&Vehicle classification)                                                                                         |
| Basic Event                                                                                 | Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), scene change detection                                                               |

|                                  |                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Linkage Method                   | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture                                                                                                                                                                                                                                    |
| Region of Interest               | 1 fixed region for main stream, sub-stream and third stream                                                                                                                                                                                                                                                                                  |
| <b>Image</b>                     |                                                                                                                                                                                                                                                                                                                                              |
| Image Enhancement                | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                                                                                             |
| Image Setting                    | Saturation, brightness, contrast, sharpness, AGC and white balance adjustable by client software or web browser                                                                                                                                                                                                                              |
| Day/Night Switch                 | Day/Night/Auto/Schedule                                                                                                                                                                                                                                                                                                                      |
| <b>Network</b>                   |                                                                                                                                                                                                                                                                                                                                              |
| Network Storage                  | microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR                                                                                                                                                                                                                                                                   |
| Protocols                        | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS                                                                                                                                                                                                     |
| API                              | ONVIF (PROFILE S, PROFILE G), ISAPI, SDK                                                                                                                                                                                                                                                                                                     |
| Security                         | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2                                                                                                                 |
| Simultaneous Live View           | Up to 6 channels                                                                                                                                                                                                                                                                                                                             |
| User/Host                        | Up to 32 users, 3 levels: administrator, operator and user                                                                                                                                                                                                                                                                                   |
| Client                           | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                                                                                                                                          |
| Web Browser                      | Plug-in required live view: IE8+, Chrome 41.0-44, Firefox30.0-51, Safari8.0-11<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+                                                                                                                                                                                                        |
| <b>Interface</b>                 |                                                                                                                                                                                                                                                                                                                                              |
| Communication Interface          | 1 RJ45 10M/100M self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                  |
| On-board storage                 | Built-in micro SD/SDHC/SDXC slot, up to 256 GB                                                                                                                                                                                                                                                                                               |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                              |
| Web Client Language              | 32 languages<br>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) |
| General Function                 | Anti-flicker, three streams, heartbeat, mirror, privacy masks, pixel counter                                                                                                                                                                                                                                                                 |
| Reset                            | Reset via reset button on camera body, web browser and client software                                                                                                                                                                                                                                                                       |
| Startup and Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F), humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                    |
| Storage Conditions               | -30 °C to 60 °C (-22 °F to 140 °F), humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                    |
| Power Supply                     | 12 VDC ± 25%, Φ 5.5 mm coaxial power plug; reverse polarity protection; PoE (802.3af, class 3)                                                                                                                                                                                                                                               |
| Power Consumption and Current    | -2I: 12 VDC, 0.63 A, max. 7.5 W; PoE (802.3af, 36 V to 57 V), 0.25 A to 0.16 A, max. 9 W<br>-4I: 12 VDC, 0.88 A, max. 10.5 W; PoE (802.3af, 36 V to 57 V), 0.34 A to 0.21 A, max. 12 W                                                                                                                                                       |
| Material                         | Metal                                                                                                                                                                                                                                                                                                                                        |
| Dimensions                       | Camera: Φ 105 × 290 mm (Φ 4.1" × 11.4")<br>With package: 386 × 156 × 155 mm (15.2" × 6.1" × 6.1")                                                                                                                                                                                                                                            |

|                 |                                                                                                                                                                                                                        |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight          | Camera: approx. 1270 g (2.8 lb.)<br>With package: approx. 1510 g (3.3 lb.)                                                                                                                                             |
| <b>Approval</b> |                                                                                                                                                                                                                        |
| EMC             | FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015) |
| Safety          | UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)                                    |
| Chemistry       | CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)                                                                                                                                          |
| Protection      | Ingress protection: IP67 (IEC 60529-2013)                                                                                                                                                                              |

\* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

## Available Model

DS-2CD2T86G2-2I (2.8 mm)

DS-2CD2T86G2-2I (4 mm)

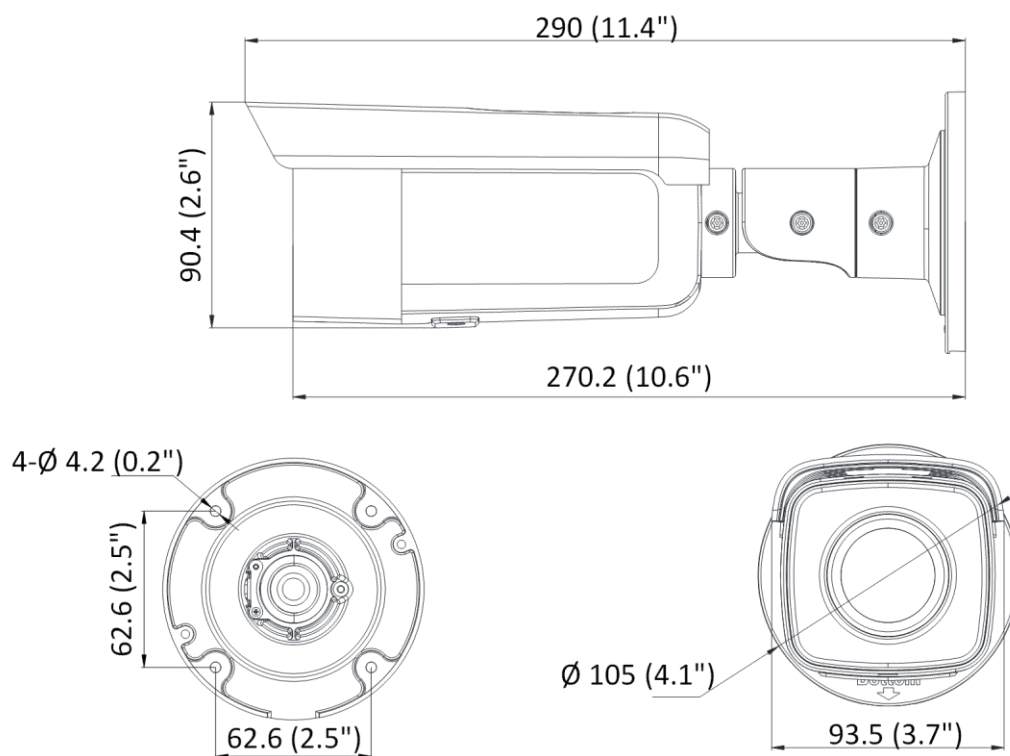
DS-2CD2T86G2-2I (6 mm)

DS-2CD2T86G2-4I (2.8 mm)

DS-2CD2T86G2-4I (4 mm)

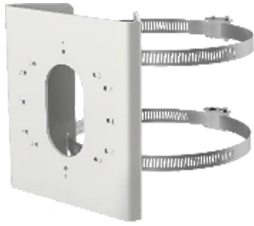
DS-2CD2T86G2-4I (6 mm)

## Dimension

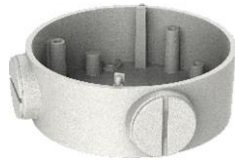


Unit: mm(inch)

## Accessory



**DS-1275ZJ-S-SUS**  
Vertical pole mount



**DS-1260ZJ**  
Junction box



**DS-1276ZJ-SUS**  
Corner mount



**DS-1280ZJ-S**  
Junction box

Distributed by



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