# DS-2CD2545FWD-I(W)(S)
# 4 MP IR Fixed Mini Dome Network Camera






- High quality imaging with 4 MP resolution
- Excellent low-light performance via powered-by-DarkFighter technology
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 120 dB true WDR technology
- -W: Wi-Fi connection
- -S: built-in microphone, audio and alarm interface available
- Water and dust resistant (IP66) and vandal proof (IK08)
- Mini size suitable for limited space

## ▪ Specification

| | |
|---|---|
| **Camera** | |
| Image Sensor | 1/2.5" Progressive Scan CMOS |
| Min. Illumination | Color: 0.014 lux @(F1.6, AGC ON), 0 lux with IR on |
| Shutter Speed | 1/3 s to 1/100,000 s |
| Slow Shutter | Yes |
| Wide Dynamic Range | 120 dB |
| Day & Night | IR Cut Filter |
| Angle Adjustment | Pan: -30° to 30°, tilt: 0° to 75°, rotate: 0° to 360° |
| **Lens** | |
| Focus | Fixed |
| Lens Type | 2.8, 4, 6 mm |
| FOV | 2.8 mm: horizontal FOV: 109°, vertical FOV: 60°, diagonal FOV: 131°<br>4 mm: horizontal FOV: 88°, vertical FOV: 46°, diagonal FOV: 105°<br>6 mm: horizontal FOV: 53°, vertical FOV: 30°, diagonal FOV: 61° |
| Aperture | F1.6 |
| Lens Mount | M12 |
| **Illuminator** | |
| IR Range | Up to 10 m |
| Wavelength | 850 nm |
| **Video** | |
| Max. Resolution | 2688 × 1520 |
| Main Stream | 50Hz: 25 fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720)<br>60Hz: 30 fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50Hz: 25 fps (640 × 480, 640 × 360, 320 × 240)<br>60Hz: 30 fps (640 × 480, 640 × 360, 320 × 240) |
| Third Stream | 50Hz: 25 fps (1280 × 720, 640 × 360, 352 × 288)<br>60Hz: 30 fps (1280 × 720, 640 × 360, 352 × 240) |
| Video Compression | Main stream: H.265/H.264<br>Sub-stream: H.265/H.264/MJPEG<br>Third stream: H.265/H.264 |
| Video Bit Rate | 32 Kbps to 16 Mbps |
| H.264 Type | Main Profile/High Profile |
| H.265 Type | Main Profile |
| H.264+ | Main stream supports |
| H.265+ | Main stream supports |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding support |
| Region of Interest (ROI) | Support 1 fixed region for main stream and sub-stream separately |
| **Audio** | |
| Environment Noise Filtering | Yes |
| Audio Sampling Rate | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz |
| Audio Compression | G.711/G.722.1/G.726/MP2L2/PCM |
| Audio Bit Rate | 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2) |
| **Network** | |
| Simultaneous Live View | Up to 6 channels |

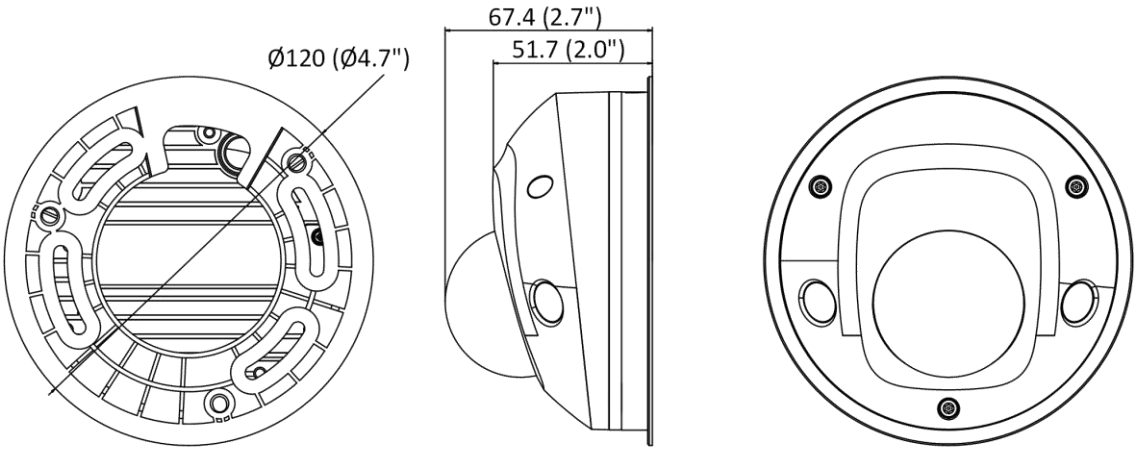
| | |
|---|---|
| API | ONVIF (PROFILE S, PROFILE G), ISAPI |
| Protocols | TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets |
| User/Host | Up to 32 users. 3 levels: administrator, operator and user |
| Security | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2 |
| Network Storage | Support MicroSD/SDHC/SDXC card (128 GB), local storage and NAS (NFS, SMB/CIFS), ANR |
| Client | Wired network: Hik-Connect, iVMS-4200, Hik-Central<br>Wi-Fi: iVMS-4200, Hik-Central<br>*Wi-Fi connection with Hik-Connect directly is not possible. |
| Web Browser | Plug-in required live view: IE 10, IE 11<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+ |
| Alarm Trigger | Motion detection, video tampering, network disconnected, IP address conflict, HDD full, HDD error, illegal login |
| **Wi-Fi** | |
| Encryption Mode | -W: WPA, WPA2 |
| Wi-Fi Protocol | -W: IEEE 802.11b/g/n |
| Frequency Range | -W: 2.412 GHz to 2.4835 GHz |
| Channel Bandwidth | -W: 20 MHz |
| Transfer Rate | -W:<br>11b: 11 Mbps<br>11g: 54 Mbps<br>11n: up to 150 Mbps |
| Wireless Range | -W: Up to 50 m (The performance varies based on actual environment) |
| **Image** | |
| Day/Night Switch | Day/Night/Auto/Schedule/Triggered by Alarm In (-S) |
| Image Enhancement | BLC/3D DNR/HLC |
| Image Settings | Rotate mode, saturation, brightness, contrast, sharpness and white balance adjustable by client software or web browser |
| **Interface** | |
| Audio | -S:<br>2 inputs: line in or mic in (built-in microphone)<br>1 output: line out, mono sound, terminal block |
| Alarm | -S:<br>1 input: alarm in<br>1 output: alarm out, terminal block |
| On-board Storage | Built-in Micro SD/SDHC/SDXC slot, up to 128 GB |
| Hardware Reset | Yes |
| Communication Interface | 1 RJ45 10M/100M self-adaptive Ethernet port |
| **Event** | |
| Basic Event | Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error) |

| | |
|---|---|
| Smart Event | Line crossing detection, intrusion detection, object removal detection, unattended baggage detection |
| Face Detection | Yes |
| Exception Detection | Scene change detection |
| **General** | |
| Linkage Method | Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email<br>Trigger notification: HTTP, ISAPI, alarm output , Email |
| Firmware Version | V5.6.5 |
| 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, password reset via e-mail, pixel counter, HTTP listening |
| Startup and Operating Conditions | -30 °C to +60 °C (-22 °F to +140 °F), humidity 95% or less (non-condensing) |
| Power Supply | 12 VDC ± 25%<br>PoE (802.3af) |
| Power Consumption and Current | 12 VDC, 0.7 A, max. 8.5 W, Ø5.5mm coaxial plug power<br>PoE (802.3af, 36 V to 57 V), 0.3 A to 0.1 A, max. 10 W |
| Camera Dimension | Ø120 mm × 67.4 mm (Ø4.7" × 2.7") |
| Camera Weight | Camera: approx. 400 g (0.9 lb.) |
| **Approval** | |
| Protection | Ingress protection: IP66 (IEC 60529-2013), IK08 (IEC 60529-2013) |

## ▪ Available Model

DS-2CD2545FWD-I (2.8/4/6 mm)
DS-2CD2545FWD-IS (2.8/4/6 mm)
DS-2CD2545FWD-IW (2.8/4/6 mm)
DS-2CD2545FWD-IWS(2.8/4/6 mm)

## ▪ Dimension




Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1275ZJ-SUS<br>Vertical Pole Mount | DS-1272ZJ-120<br>Wall Mount | DS-1276ZJ-SUS<br>Corner Mount | DS-1280ZJ-DM46<br>Junction Box | DS-1271ZJ-120<br>Pendant Mount |
|---|---|---|---|---|
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| DS-1272ZJ-120B<br>Wall Mount |
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|  |

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