DS-2CD2555FWD-I(W)(S)
5 MP IR Fixed Mini Dome Network Camera

Key Features

- 2944 × 1656@20fps
- IR range: up to 10 m
- H.265+, H.265, H.264+, H.264
- 120dB WDR
- Built-in Micro SD/SDHC/SDXC slot, up to 128G
- PoE
- BLC/3D DNR/HLC/ROI
- Wi-Fi (Optional)
- IP66, IK08
- Color: 0.01 Lux @(F1.2, AGC ON), 0 Lux with IR
  Color: 0.028 lux @(F2.0, AGC ON), 0 lux with IR
## Specifications

<table>
<thead>
<tr>
<th><strong>Camera</strong></th>
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<tbody>
<tr>
<td><strong>Image Sensor</strong></td>
<td>1/2.9” Progressive Scan CMOS</td>
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</tbody>
</table>
| **Min. Illumination** | Color: 0.01 Lux @ (F1.2, AGC ON), 0 Lux with IR
Color: 0.028 lux @(F2.0, AGC ON), 0 lux with IR |
| **Shutter Speed** | 1/3 s to 1/100,000 s |
| **Slow Shutter** | Yes |
| **Day & Night** | IR Cut Filter |
| **Digital Noise Reduction** | 3D DNR |
| **WDR** | 120dB |
| **3-Axis Adjustment** | Pan: -30° to +30°, tilt: 0° to 75°, rotate: 0° to 360° |

<table>
<thead>
<tr>
<th><strong>Lens</strong></th>
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<tbody>
<tr>
<td><strong>Focal length</strong></td>
<td>2.8, 4, 6 mm</td>
</tr>
<tr>
<td><strong>Aperture</strong></td>
<td>F2.0</td>
</tr>
</tbody>
</table>
| **FOV** | 2.8 mm: Horizontal field of view: 97°, Vertical field of view: 54°, Diagonal field of view: 113°
4 mm: Horizontal field of view: 78°, Vertical field of view: 42°, Diagonal field of view: 92°
6 mm: Horizontal field of view: 60°, Vertical field of view: 33°, Diagonal field of view: 71° |
| **Lens Mount** | M12 |

<table>
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<tr>
<th><strong>IR</strong></th>
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<tbody>
<tr>
<td><strong>IR Range</strong></td>
<td>Up to 10 m</td>
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<tr>
<td><strong>Wavelength</strong></td>
<td>850nm</td>
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<tr>
<th><strong>Compression Standard</strong></th>
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| **Video Compression** | Main stream: H.265/H.264
Sub-stream: H.265/H.264/MJPEG
Third stream: H.265/H.264 |
| **H.264 Type** | Main Profile/High Profile |
| **H.264+** | Main stream supports |
| **H.265 Type** | Main Profile |
| **H.265+** | Main stream supports |
| **Video Bit Rate** | 32 Kbps to 16 Mbps |
| **Audio Compression (-S)** | G.711/G.722.1/G.726/MP2L2/PCM/ MP3 |
| **Audio Bit Rate (-S)** | 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/8Kbps-320Kbps(MP3) |

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<tr>
<th><strong>Smart Feature-set</strong></th>
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<tbody>
<tr>
<td><strong>Smart Event</strong></td>
<td>Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, face detection, scene change detection</td>
</tr>
<tr>
<td><strong>Basic Event</strong></td>
<td>Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)</td>
</tr>
</tbody>
</table>
| **Linkage Method** | Trigger recording: memory card, network storage, pre-record and post-record
Trigger captured pictures uploading: FTP, HTTP, NAS, Email
Trigger notification: HTTP, ISAPI, alarm output (-S), Email |
| **Region of Interest** | Support 1 fixed region for main stream and sub-stream separately |

<table>
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<tr>
<th><strong>Image</strong></th>
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<tr>
<td><strong>Max. Resolution</strong></td>
<td>2944 × 1656</td>
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</table>
| **Main Stream** | 50Hz: 20fps (2944 × 1656), 25fps (2560 × 1440, 1920 × 1080, 1280 × 720)
60Hz: 20fps (2944 × 1656), 30fps (2560 × 1440, 1920 × 1080, 1280 × 720) |
| **Sub-Stream** | 50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) |
### Third Stream

- 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)

### Image Setting

- Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance adjustable by client software or web browser

### Image Enhancement

- BLC/3D DNR/HLC

### Day/Night Switch

- Day/Night/Auto/Schedule/Triggered by Alarm In (-S)

*Note: When the main stream resolution is 2944 × 1656, max frame rate is 20 fps for all streams.*

### Network

#### Network Storage

- Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR

#### 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

#### General Function

- Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening

#### API

- ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome

#### 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

### 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+
- Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+
- Local Service: Chrome 41.0+, Firefox 30.0+

### Interface

#### Audio (-S model)

- 2 Inputs: Line in or Mic in (built-in microphone), 1 Output: Line out, mono sound, terminal block

#### Alarm (-S model)

- 1 input, 1 output (max. 12 VDC, 30 mA), terminal block

#### Communication Interface

- 1 RJ45 10M/100M self-adaptive Ethernet port

#### On-board storage

- Built-in Micro SD/SDHC/SDXC slot, up to 128G

#### SVC

- Support H.264 and H.265 encoding

#### Reset Button

- Yes

### Wi-Fi

#### Wireless Standards

- IEEE 802.11b/g/n

#### Frequency Range

- 2.412 GHz to 2.4835 GHz

#### Channel Bandwidth

- 20M/40M

#### Protocols

- 802.11b: DQPSK, DBPSK, CCK
- 802.11g/n: OFDM /64-QAM,16-QAM, QPSK, BPSK

#### Security

- WPA, WPA2

#### Transfer Rates

- 11b: 11Mbps, 11g: 54Mbps, 11n: up to 150Mbps

#### Wireless Range

- 50 m

### Audio

#### Environment Noise Filtering

- Yes

#### Audio Sampling Rate

- 8kHz/16kHz/32kHz/44.1kHz/48kHz

### General
### Web Client Language

32 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)

### Operating Conditions

-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)

### Power Supply

- 12 VDC ± 25%, PoE (802.3af, class 3)

### Power Consumption and Current

- 12 VDC, 0.6 A, max. 7.5 W
- PoE (802.3af, 36 V to 57 V), 0.26 A to 0.17 A, max. 9.5 W

### Protection Level

- IK08, IP66

### Material

- Front cover: plastic, Bottom base: metal

### Dimensions

- Φ110 mm × 56.4 mm (Φ4.33" × 2.22")

### Weight

- Camera: Approx. 400 g (0.88 lb.)

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### Available Model

DS-2CD2555FWD-I (2.8/4/6 mm), DS-2CD2555FWD-IS (2.8/4/6 mm),
DS-2CD2555FWD-IW (2.8/4/6 mm), DS-2CD2555FWD-IWS (2.8/4/6 mm)
DS-1280JZ-DM46
Junction Box