

## DS-2CD2785FWD-IZS 8 MP IR Vari-focal Dome Network Camera



### Key Features

- 1/2.5" Progressive Scan CMOS
- 3840 × 2160 @20fps
- H.265, H.265+
- 120dB WDR
- IP67, IK10
- IR range: up to 30 m
- BLC/3D DNR/ROI/HLC
- Smart encoding: Support low bit rate, low latency
- 4 behavior analyses and face detection
- Color: 0.01 Lux @ (F1.2, AGC ON), 0 Lux with IR  
Color: 0.014 Lux @ (F1.4, AGC ON), 0 Lux with IR



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## Specifications

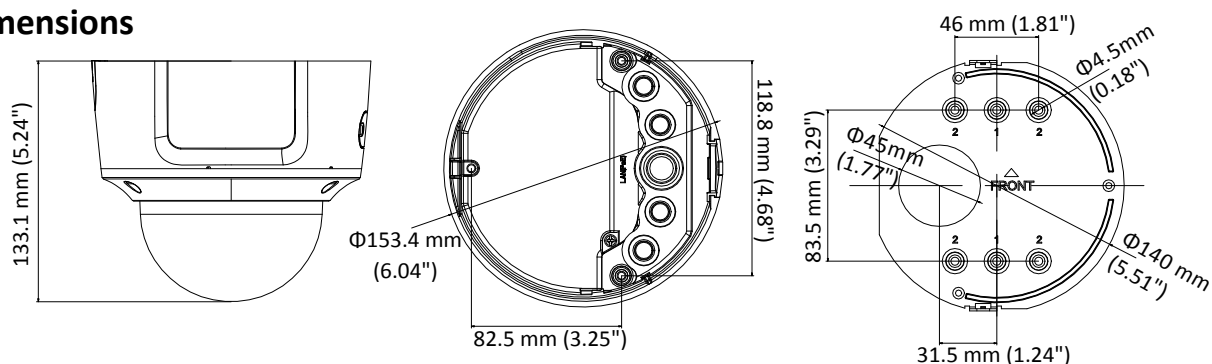
| <b>Camera</b>               |                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/2.5" Progressive Scan CMOS                                                                                                                                                     |
| Min. Illumination           | Color: 0.01 Lux @ (F1.2, AGC ON), 0 Lux with IR<br>Color: 0.014 Lux @ (F1.4, 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: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°                                                                                                                             |
| <b>Lens</b>                 |                                                                                                                                                                                  |
| Focal length                | 2.8 to 12 mm                                                                                                                                                                     |
| Aperture                    | F1.4                                                                                                                                                                             |
| Focus                       | Auto                                                                                                                                                                             |
| FOV                         | Horizontal field of view: 115° to 35°<br>Vertical field of view: 60° to 19°<br>Diagonal field of view: 146° to 38.5°                                                             |
| Lens Mount                  | Ø14                                                                                                                                                                              |
| <b>IR</b>                   |                                                                                                                                                                                  |
| IR Range                    | Up to 30 m                                                                                                                                                                       |
| Wavelength                  | 850nm                                                                                                                                                                            |
| <b>Compression Standard</b> |                                                                                                                                                                                  |
| Video Compression           | Main stream: H.265/H.264<br>Sub stream: H.265/H.264/MJPEG<br>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           | 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)                                                                                                                    |
| <b>Smart Feature-set</b>    |                                                                                                                                                                                  |
| Behavior Analysis           | Line crossing detection, intrusion detection, unattended baggage detection, object removal detection                                                                             |
| Exception Detection         | Scene change detection                                                                                                                                                           |
| Face Detection              | Yes                                                                                                                                                                              |
| Region of Interest          | Support 1 fixed region for main stream and sub stream                                                                                                                            |
| <b>Image</b>                |                                                                                                                                                                                  |
| Max. Resolution             | 3840 × 2160                                                                                                                                                                      |
| Main Stream                 | 50Hz: 20 fps (3840 × 2160), 25 fps (3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)<br>60Hz: 20 fps (3840 × 2160), 30 fps (3072 × 1728, 2560 × 1440, 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 × 360, 352 × 288)<br>60Hz: 30fps (1280 × 720, 640 × 360, 352 × 240)                                            |
| Image Enhancement                                                                                       | BLC/3D DNR/HLC                                                                                                                              |
| Image Setting                                                                                           | Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser                                       |
| Day/Night Switch                                                                                        | Day/Night/Auto/Schedule/Triggered by Alarm In                                                                                               |
| <b>*Note:</b> When the main stream resolution is 3840 × 2160, max frame rate is 20 fps for all streams. |                                                                                                                                             |
| <b>Network</b>                                                                                          |                                                                                                                                             |
| Network Storage                                                                                         | Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR                                                           |
| Alarm Trigger                                                                                           | Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error, Alarm input, Alarm output |
| Protocols                                                                                               | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour            |
| General Function                                                                                        | One-key reset, anti-flicker, three streams, heartbeat, password protection, privacy mask, watermark, IP address filter                      |
| Firmware Version                                                                                        | V5.5.52                                                                                                                                     |
| API                                                                                                     | ONVIF (PROFILE S, PROFILE G), ISAPI                                                                                                         |
| Simultaneous Live View                                                                                  | Up to 6 channels                                                                                                                            |
| User/Host                                                                                               | Up to 32 users<br>3 levels: Administrator, Operator and User                                                                                |
| Client                                                                                                  | iVMS-4200, Hik-Connect, iVMS-5200, iVMS-4500                                                                                                |
| Web Browser                                                                                             | IE8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+                                                                                          |
| <b>Interface</b>                                                                                        |                                                                                                                                             |
| Audio                                                                                                   | 1 input (line in, 3.5 mm), 1 output(3.5 mm), mono sound                                                                                     |
| Communication Interface                                                                                 | 1 RJ45 10M/100M self-adaptive Ethernet port                                                                                                 |
| Alarm                                                                                                   | 1 input, 1 output (max. 12 VDC, 30 mA), terminal block                                                                                      |
| Video Output                                                                                            | 1Vp-p composite output (75 Ω/BNC) (For adjustment only)                                                                                     |
| On-board storage                                                                                        | Built-in Micro SD/SDHC/SDXC slot, up to 128 GB                                                                                              |
| SVC                                                                                                     | Support H.264 and H.265 encoding                                                                                                            |
| Reset Button                                                                                            | Yes                                                                                                                                         |
| <b>Audio</b>                                                                                            |                                                                                                                                             |
| Environment Noise Filtering                                                                             | Yes                                                                                                                                         |
| Audio Sampling Rate                                                                                     | 8kHz/16kHz/32kHz/44.1kHz/48kHz                                                                                                              |
| <b>General</b>                                                                                          |                                                                                                                                             |
| 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)<br>Terminal block for DC input                                                                                  |
| Power Consumption and Current                                                                           | 12 VDC, 0.95A, max. 11.5W<br>PoE (802.3af, 36V to 57V), 0.3A to 0.1A, max. 12.9W                                                            |
| Protection Level                                                                                        | IP67, IK10                                                                                                                                  |
| Material                                                                                                | Metal                                                                                                                                       |
| Dimensions                                                                                              | Φ153.4 × 133.1 mm (Φ6.04" × 5.24")                                                                                                          |
| Weight                                                                                                  | Camera: 1287 g (2.84 lb.)                                                                                                                   |

## Available Model:

DS-2CD2785FWD-IZS

## Dimensions



## Accessories



DS-1471ZJ-155  
Pendant Mount



DS-1473ZJ-155  
Wall Mount



DS-1475ZJ-SUS  
Vertical Pole Mount



DS-1476ZJ-SUS  
Corner Mount



Distributed by

DS-1227ZJ-DM37  
In-ceiling Mount

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