

## DS-2CD2085FWD-I 8 MP IR Fixed Bullet Network Camera



- Up to 8 megapixel high resolution
- Max. 3840 × 2160 @ 20 fps
- 2.8 mm/4 mm/6 mm fixed lens, optional
- 120 dB Wide Dynamic Range
- 3D Digital Noise Reduction
- Support on-board storage, up to 128 GB



## ▪ Specification

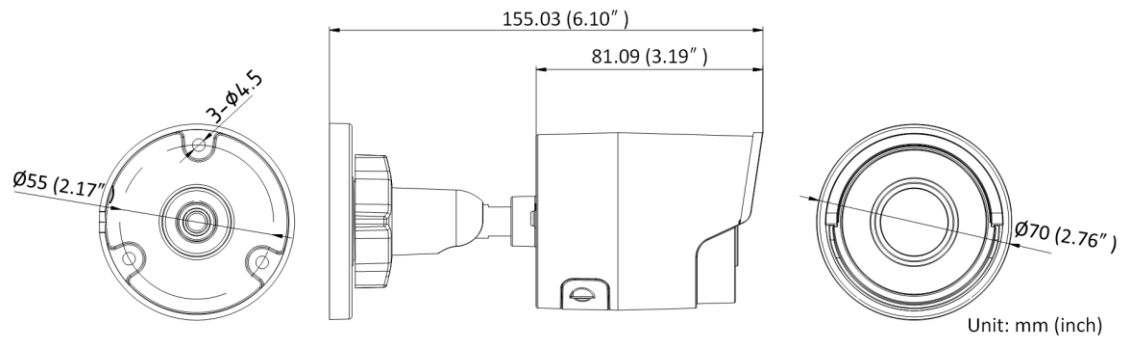
Camera	
Image Sensor	1/2.5" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.01 lux @(F1.2, AGC ON), 0.028 lux @(F2.0, AGC ON), B/W: 0 lux with IR
Shutter Time	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV: 102° 4 mm, horizontal FOV: 79° 6 mm, horizontal FOV: 50°
Lens Mount	M12
Iris Type	Fixed
Aperture	F2.0
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 30 m
Video	
Main Stream	50 Hz: 20 fps (3840 × 2160), 25 fps (3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (3840 × 2160), 30 fps (3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360, 320 × 240) 60 Hz: 30 fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50 Hz: 25 fps (1280 × 720, 640 × 360, 352 × 288) 60 Hz: 30 fps (1280 × 720, 640 × 360, 352 × 240)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG 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
Region of Interest (ROI)	1 fixed region for main stream and sub-stream separately
Network	
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
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK
User/Host	Up to 32 users. 3 user 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 Open Network Video Interface, TLS1.2
Network Storage	NAS (NFS,SMB/CIFS), ANR
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+
<b>Image</b>	
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule
Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC/3D DNR/HLC
<b>Interface</b>	
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 128 GB
Reset Key	Yes
<b>Event</b>	
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, unattended baggage detection, object removal detection, face detection, scene change detection
Linkage	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, email
<b>General</b>	
Power	12 VDC $\pm$ 25%, 7 W PoE: 802.3af, class 3, 36 V to 57 V, 7.5 W
Dimension	$\varnothing$ 70 $\times$ 155.03 mm ( $\varnothing$ 2.76" $\times$ 6.1")
Package Dimension	216 $\times$ 121 $\times$ 118 mm (8.5" $\times$ 4.76" $\times$ 4.65")
Weight	410 g (0.9 lb.)
Startup and Operating Conditions	-30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
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)
General Function	Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening
<b>Approval</b>	
Protection	IP67 (IEC 60529-2013)

**▪ Available Model**

DS-2CD2085FWD-I (2.8/4/6 mm)

DS-2CD2085FWD-I (2.8 mm) (Black)

**▪ Dimension****▪ Accessory****▪ Optional****DS-1280ZJ-XS****Junction Box**

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