DS-2CD2455FWD-IW
5 MP IR Fixed Cube Network Camera

- High quality imaging with 5 MP resolution

- Efficient H.265+ compression technology

- Clear imaging against strong back light due to 120 dB true WDR technology

- Provides real-time security through built-in two-way audio

- Detects human body through passive infrared sensitive to body temperature (PIR)

- -W: Wi-Fi connection

▪ Specification

Camera	
Image Sensor	1/2.9" Progressive Scan CMOS
Min. Illumination	Color: 0.005 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
Wide Dynamic Range	120 dB
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
DNR	3D DNR
Lens	
Lens	2.8 mm
Aperture	F1.6
Focus	Fixed
FOV	Horizontal FOV: 97°, vertical FOV: 54°, diagonal FOV: 113°
Lens Mount	M12
Illuminator	
IR Range	10 m
Wavelength	850 nm
PIR	
PIR Angle	Horizontal: 90°, vertical: 80°
PIR Range	10 m
Video	
Max. Resolution	2944 × 1656
Main Stream	50Hz: 20 fps (2944 × 1656) 　　　25 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (2944 × 1656) 　　　30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25 fps (640 × 480, 640 × 360, 320 × 240) 60Hz: 30 fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50Hz: 25 fps (1280 × 720, 640 × 360, 352 × 288) 60Hz: 30 fps (1280 × 720, 640 × 360, 352 × 240)
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.265 Type	Main Profile
Video Bit Rate	32 Kbps to 16 Mbps
SVC	Support H.264 and H.265 encoding
Audio	
Audio Compression	G722.1/G711/G726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2)
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz

Smart Feature-Set	
Behavior Analysis	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection
Region of Interest	Support 1 fixed region for main stream and sub-stream separately
Image	
Image Enhancement	BLC/3D DNR/HLC
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness and white balance adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule
Wi-Fi	
Frequency	2.412 GHz to 2.4835 GHz
Channel Bandwidth	20/40 MHz
Security	WPA, WPA2
Transfer Rate	11b: 11 Mbps 11g: 54 Mbps 11n: up to 150 Mbps
Wireless Range	50 m
Wireless Standards	IEEE 802.11b/g/n
Network	
Network Storage	Support microSD/SDHC/SDXC card (128 GB), local storage and NAS (NFS, SMB/CIFS), ANR
API	ONVIF (PROFILE S, PROFILE G), ISAPI
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users. 3 levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, iVMS-5200, iVMS-4500
Web Browser	Plug-in required live view: IE8+, Chrome 41.0-44, Firefox 30.0-51, Safari 8.0-11 Plug-in free live view: Chrome 45.0+, Firefox 52.0+
Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, HDD full, HDD error, PIR, illegal login
Interface	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Audio	1 built-in mic, 1 built-in speaker, mono sound
On-board Storage	Built-in microSD/SDHC/SDXC slot, up to 128 GB
General	
Firmware Version	V5.5.80
Reset	Yes
Startup and Operating Conditions	-10 °C to 40 °C (14 °F to 104 °F), humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 20%, PoE (802.3af, class 3)
Power Consumption and Current	12 VDC, 0.47 A, max. 7 W; PoE (802.3af, 36 V to 57 V), 0.2 A to 0.1 A, max. 7 W
Material	Plastic
Dimensions	102.8 mm × 65.2 mm × 32.6 mm (4.05" × 2.57" × 1.28")
Weight	Camera: Approx. 128 g (0.28 lb.)
Compression Standard	
H.264+	Main stream supports

H.265+	Main stream supports
Smart Feature-set	
Face Detection	Yes
Exception Detection	Scene change detection

▪ Available Model

DS-2CD2455FWD-IW(2.8 mm)(W)

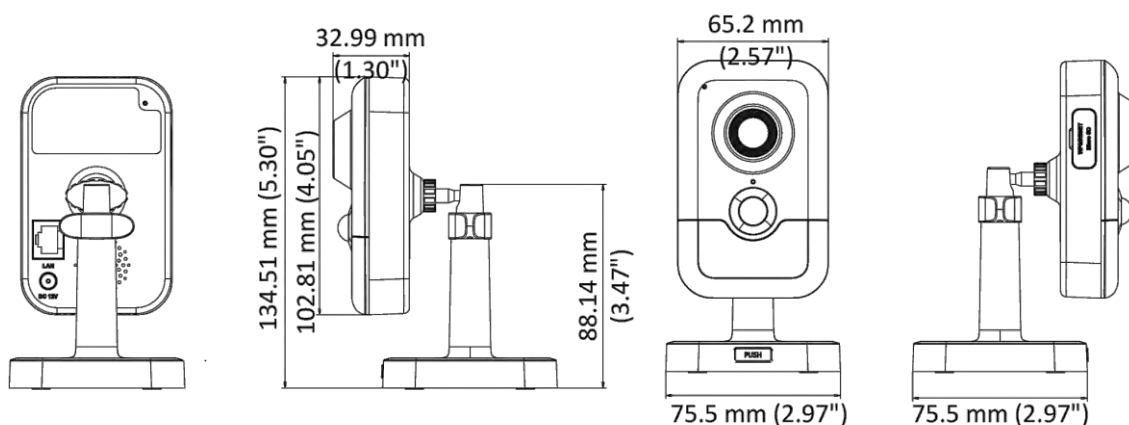## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

▪ Dimension

Distributed by

05050820220114