DS-2CFWQ3
2K Indoor Wi-Fi PT Camera





- 2K Higher Definition Helps See More Details
- Support Wi-Fi 6
- Support Human and Vehicle Detection
- Support One-tap Privacy Mode
- Support Smart Hybrid Light
- Provide real-time security via built-in two-way audio
- Built-in microphone for real-time audio security

▪ Specification

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Resolution	2304 × 1296
Shutter Time	1/3 s to 1/100,000 s
Min. Illumination	Color: 0.01 Lux @ (F2.2, AGC ON), B/W: 0 Lux with IR
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 345°, tilt: 15° to 85°
Lens	
Lens Type	Fixed focal lens, 2.8 and 4 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 106.4°, vertical FOV 58.4°, diagonal FOV 126.6° 4 mm, horizontal FOV 84°, vertical FOV 45.5°, diagonal FOV 101.1°
Lens Mount	M12
Iris Type	Fixed
Aperture	F2.2
Depth of Field	2.8 mm: 0.9 m to ∞ 4 mm: 1 m to ∞
DORI	
DORI	2.8 mm, D: 50 m, O: 20 m, R: 10 m, I: 5 m 4 mm, D: 63 m, O: 25 m, R: 12 m, I: 6 m
Illuminator	
Supplement Light Type	IR, White Light
Supplement Light Range	IR: up to 10 m White Light: up to 10 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 20 fps (2304 × 1296, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2304 × 1296, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 20 fps (768 × 432) 60 Hz: 20 fps (768 × 432)
Video Compression	Main stream: H.265, Sub-stream: H.265
Video Bit Rate	32 Kbps to 2 Mbps
H.265 Type	Main Profile
Bit Rate Control	CBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream
Audio	
Audio Type	Mono sound
Audio Compression	G.711(ulaw)/ AAC-LC
Audio Bit Rate	64 Kbps (G.711ulaw)/16 to 64 Kbps (AAC-LC)
Audio Sampling Rate	8 kHz/16 kHz
Environment Noise Filtering	Yes

Network	
Security	Password protection, complicated password, watermark, basic and digest authentication for HTTP, WSSE and digest authentication for Open Network Video Interface, security audit log, host authentication (MAC address)
Client	Hik-Connect, HiLookVision
Simultaneous Live View	Up to 10 channels
Protocols	TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, NTP, IGMP, UDP, QoS
Wi-Fi	
Encryption Mode	WPA-PSK/WPA2-PSK
Wi-Fi Protocol	IEEE802.11b, IEEE802.11g, IEEE802.11n, IEEE802.11ax
Frequency Range	2.4 GHz to 2.4835 GHz
Channel Bandwidth	20/40 MHz
Modulation	802.11b: DBPSK, DQPSK, CCK 802.11g: BPSK, QPSK, 16QAM, 64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Transfer Rate	11b: up to 11 Mbps 11n: up to 150 Mbps 11g: up to 54 Mbps 11ax: up to 114 Mbps
Wireless Range	Up to 50 m (The performance varies based on actual environment)
Image	
Wide Dynamic Range (WDR)	Digital WDR
SNR	≥ 52 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
Privacy Mask	4 programmable polygon privacy masks, *Support one-click physical privacy mask.
Interface	
Audio	1 built-in microphone 1 built-in speaker
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle))
Linkage	Notify surveillance center, audible warning
General	
Power	5 VDC ± 5%, 1.6 A, Type-C
Material	Plastics
Dimension	Ø124.2 mm × 113 mm (Ø4.9" × 4.5")
Package Dimension	165 mm × 155 mm × 126 mm (6.5" × 6.1" × 5.0")
Weight	Approx. 280 g (0.6 lb.)
With Package Weight	Approx. 680 g (1.5 lb.)

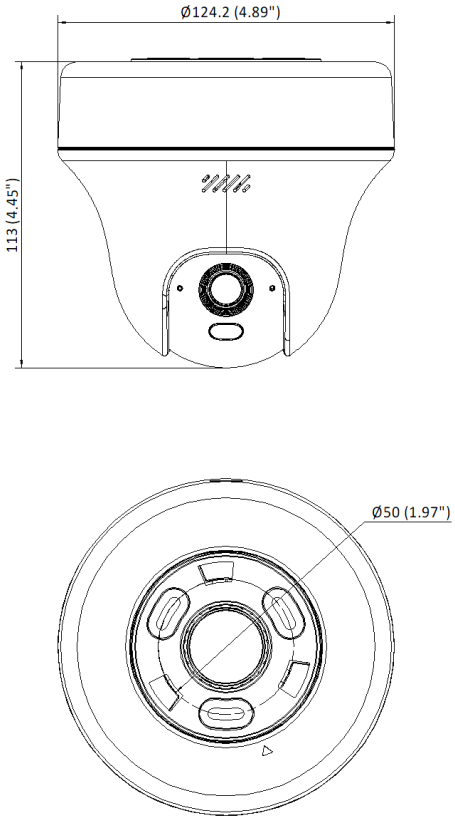
Storage Conditions	-10 °C to 40 °C (14 °F to 104 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-10 °C to 40 °C (14 °F to 104 °F). Humidity 95% or less (non-condensing)
General Function	Heartbeat, mirror, password protection, anti-banding
Approval	
RF	CE-RED: EN 301489-1 V2.1.1(BT or 2.4G); EN 301489-17 V3.1.1 (BT or 2.4G); EN 300328 V2.1.1 (BT or 2.4G); EN 62311:2008 (BT or 2.4G)
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021
Safety	CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11:2017
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006

▪ Available Model

DS-2CFWQ3(2.8mm)

DS-2CFWQ3(4mm)

▪ Dimension



Unit: mm (inch)

See Far, Go Further

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