

DS-2CD4020F

2MP Smart IP Box Camera



The 2MP series Smart cameras are able to capture high quality colored images. DS-2CD4020F offers Full HD resolution with up to 25fps high frame rate, DWDR, Defog, 3D DNR and various Smart Feature-set to meet a wide variety of applications.

smart IPC

DS-2CD4020F is Hikvision Smart IPC and features various Smart functions including:

Smart Detection

Intrusion Detection, Line Crossing Detection, Scene Change Detection, Audio Surge Detection, Audio Loss Detection, Defocus Detection, Face Detection, etc

Smart Codec

Smart Recording with dual-VCA, Low Bitrate, Low Latency, ROI enhancement, Multi-stream, Rotate Mode, Edge Recording, etc.

- 1/2.8" Progressive Scan CMOS
- 2MP real time
- Up to 25fps frame rate
- Slow shutter
- Digital WDR
- 3D DNR
- Audio/Alarm IO
- Support 128G on-board storage
- DC12V/AC24V/PoE



Key Features

Smart

- 2 behavior analysis, 4 exception detections.
- Smart recording: Support edge recording and dual-VCA.
- Smart encoding: Support low bit rate; low latency; ROI enhance encoding

Image

- HD 1920 × 1080@25fps
- Support rotate mode, suitable for environment as corridor.
- Code smoothness setting for different requirements of image quality and fluency.
- Support H.264/MJPEG video compression, multi-level video quality configuration; support Basic/Main Profile H.264 encoding complexity.
- Multiple OSD color: Black & white self-adaptive; Custom
- Digital WDR is supportable for backlight environment.
- Support defog, BLC.

System

- Support ONVIF (profile S/profile G), CGI, PSIA, ISAPI protocol.
- Support three streams, and Support 20 channels live view at the same time.
- Anti-thunder, anti-surge, anti-static protection level.

Interface

- Support standard 128G Micro SD/SDHC/SDXC card storage.
- Support 10M/100M Ethernet Port.
- Support Audio I/O, support dual channel stereo audio.
- Support Alarm I/O
- Support CVBS analog output (4CIF resolution)

Security

- Support three-level user authentication management, user and password authorization, IP address filtering and anonymous access.
- Support security certificate as HTTPS, SSH; support creating certificate.
- Basic and digest authentication is supportable in IE configuration
- Lock user login for over 5 times wrong username or password

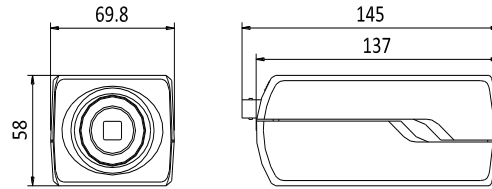
DS-2CD4020F 2MP Smart IP Box Camera



Specification

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), B/W: 0.001 Lux @ (F1.2, AGC ON)
Shutter Speed	1/3s ~ 1/100,000s
Slow Shutter	Support
Lens Mount	C/CS mount
Auto-iris	DC drive
Day & Night	IR cut filter with auto switch
WDR	DWDR
Compression Standard	
Video Compression	H.264/MJPEG
H.264 Type	Baseline Profile / Main Profile
Video Bit Rate	32 Kbps – 8 Mbps
Audio Compression	G.711/G.722.1/G.726/MP2L2
Audio Bit Rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2)
Image	
Max. Resolution	1920 × 1080
Frame Rate	50Hz: 25fps (1920 × 1080) / (1280 × 960) / (1280 × 720) 60Hz: 30fps (1920 × 1080) / (1280 × 960) / (1280 × 720)
Third Stream	Independent with Main Stream and Sub Stream, up to 50Hz: 1fps (1920 × 1080) 60Hz: 1fps (1920 × 1080)
Image Enhancement	BLC/3D DNR/ROI/Defog
Image Setting	Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser
Day/Night Switch	Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128x128 24bit bmp format
Network	
Network Storage	NAS (Support NFS,SMB/CIFS), ANR
Alarm Trigger	Line crossing detection, Intrusion detection, scene change detection, audio exception detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Security	One-key recovery, flash-prevention, three streams, heartbeat, mirror, password protection, video mask, Watermark, IP address filtering, Anonymous access
Standard	ONVIF(PROFILE S,PROFILE G),PSIA,CGI,ISAPI
Interface	
Audio	1-ch 3.5 mm audio in(Mic in/Line in)/out interface, 1 build-in Microphone
Communication Interface	1 RJ45 10M/100M Ethernet port, 1 RS-485 interface and 1 RS-232 interface
Alarm	1 input, 1 output (up to DC24V 1A or AC110V 500mA)
Video Output	1Vp-p composite output (75 Ω/BNC)
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB
Reset Button	Yes

Dimensions



Unit: mm

Smart Feature-set

Behavior Analysis	Line crossing detection, Intrusion detection
Line Crossing Detection	Cross a pre-defined virtual line
Intrusion Detection	Enter and loiter in a pre-defined virtual region
Exception Detections	Scene change detection, Sudden audio increase/decrease detection, Audio loss detection, Defocus detection
Recognition	Face detection recognition

General

Operating Conditions	-30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing)
Power Supply	24 V AC ± 10%, 12 V DC ± 10%, PoE (802.3af)
Power Consumption	Max. 6 W (Max. 9W with IR cut filter on)
Dimensions	69.8×58×145 mm (2.75" × 2.28" × 5.71")
Weight	830 g (1.83 lbs)

Order Models

DS-2CD4020F

Accessories



HV3816D-8MPIR
3.8~16mm DC Iris Lens
HV3816P-8MPIR
3.8~16mm P-Iris Lens



HV1140D-8MPIR
11~40mm DC Iris Lens
HV1140P-8MPIR
11~40mm P-Iris Lens



DS-1293ZJ
Long Arm Wall Mount



DS-1292ZJ
Short Arm Wall Mount



DS-1322HZ-C/H/CW/HW
Outdoor Housing



DS-1320HZ
Indoor Housing