DS-2CD4085F-(A)(P)
4K Smart Box Camera

P Iris | 4K | smart CODEC | smart | DIGITAL WDR | 3D DNR

The 4K series Smart cameras are able to capture super high quality images.
DS-2CD4085F-(A)(P) offers 8MP HD resolution with up to 22fps frame rate, DWDR, Auto Back Focus, P-Iris, PoE, Defog, 3D DNR and complete Smart Feature-set to meet a wide variety of applications.

- 1/1.7” Progressive Scan CMOS
- 4096 × 2160 @22fps frame rate
- Slow shutter
- DWDR
- 3D DNR
- -A: Auto Back Focus
- -P: P-Iris
- Audio/Alarm IO
- Support 128G on-board storage
- DC12V/AC24V/PoE

smart IPC

DS-2CD4085F-(A)(P) is Hikvision Smart IPC and features complete Smart functions including:

Smart Detection

Intrusion Detection, Line Crossing Detection, Object Left/Removal, Area Entering/Leaving, Scene Change Detection, Audio Surge Detection, Audio Loss Detection, Defocus Detection, Face Detection, Object Counting, etc.

Smart Codec

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

Smart Image Control

Smart Auto Focus with ABF (-A)

Key Features

Smart

- 6 behavior analysis, 4 exception detections, 1 recognition, 1 statistic function.
- Smart recording: Support edge recording and dual-VCA.
- Smart encoding: Support low bit rate; low latency; ROI enhance encoding
- Smart lens options: ABF (-A), P-iris(-P).

Image

- HD 4096 × 2160@22fps
- Support suitable for environment as corridor.
- Support regional cropping, details can be seen with low bandwidth.
- Code smoothness setting for different requirements of image quality and fluency.
- Support H.264+/H.264/MJPEG video compression, multi-level video quality configuration; support Basic/Main/High Profile H.264 encoding complexity.
- Multiple OSD color: Black & white self-adaptive; Custom
- Digital WDR is supportable for backlight environment.
- Support defog, BLC, HLC.

System

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

Interface

- Support standard 128G Micro SD/SDHC/SDXC card storage.
- Support 10M/100M/1000M 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; support creating certificate.
- Basic and digest authentication is supportable in IE configuration
- Lock user IP for many times error login

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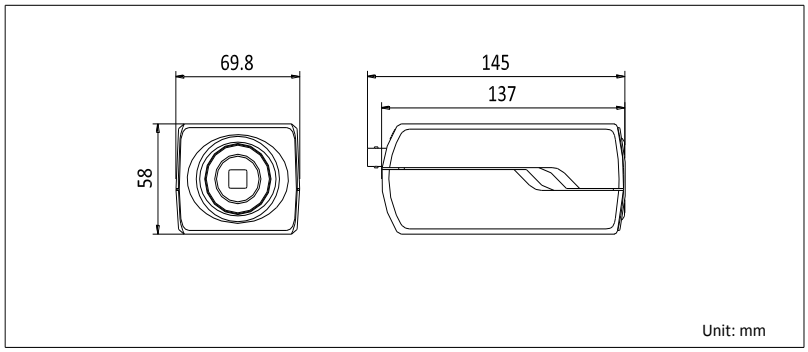
Specification

Camera	
Image Sensor	1/1.7'' Progressive Scan CMOS
Min. Illumination	Color: 0.009 Lux @ (F1.2, AGC ON), B/W: 0.012 Lux @ (F1.2, AGC ON)
Shutter Speed	1s ~ 1/100,000s
Slow Shutter	Support
Lens Mount	C/CS mount
Auto-iris	DC drive (-P: support P-Iris)
Day & Night	IR Cut Filter with auto switch
WDR	DWDR
Focus	-A: support ABF
Compression Standard	
Video Compression	H.264+/H.264/ MJPEG
H.264 Type	Baseline Profile / Main Profile / High Profile
Video Bit Rate	32 Kbps – 16 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	4096 × 2160
Frame Rate	50Hz: 22fps (4096 × 2160), 25fps (3840 × 2160, 1920 × 1080, 1280 × 720) 60Hz: 22fps (4096 × 2160), 24fps (3840 × 2160), 30fps(1920 × 1080, 1280 × 720)
Third Stream	Independent with Main Stream and Sub Stream, up to 50/60Hz: 10fps(1280 × 720)
Image Enhancement	BLC/3D DNR/ROI/Defog
Image Setting	Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser
Regional Cropping	Support
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	Motion detection, 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	User Authentication, Watermark, IP address filtering, Anonymous access
Standard	ONVIF(PROFILE S,PROFILE G) ,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/1000M 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



Audio	
Environment Noise Filtering	Support
Audio I/O	Support dual audio track, stereo
Audio Sampling Rate	16kHz / 32kHz / 44.1kHz / 48kHz
Smart Feature-set	
Behavior Analysis	Line crossing detection, Intrusion detection, Region entrance, Region exiting, Unattended baggage, Object removal
Line Crossing Detection	Cross a pre-defined virtual line
Intrusion Detection	Enter and loiter in a pre-defined virtual region
Region Entrance	Enter a pre-defined virtual region from the outside place
Region Exiting	Exit from a pre-defined virtual region
Unattended Baggage	Objects left over in the pre-defined region such as the baggage, purse, dangerous materials
Object Removal	Objects removed from the pre-defined region, such as the exhibits on display.
Exception Detections	Scene change detection, Sudden audio increase/decrease detection, Audio loss detection, Defocus detection
Recognition	Face detection recognition
Statistics	Object Counting (Entrance and Exit object number is accounted and showed on screen in real time)
Heat Map	Support
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	
Lens no included models: DS-2CD4085F, DS-2CD4085F-A, DS-2CD4085F-P, DS-2CD4085F-AP	

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-1299ZJ

Pendant Mount

DS-1292ZJ

Wall Mount

DS-1332HZ

Indoor Housing

DS-1330HZ

Indoor Housing

DS-1331HZ series

Outdoor Housing

DS-1340HZ

Outdoor Housing

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