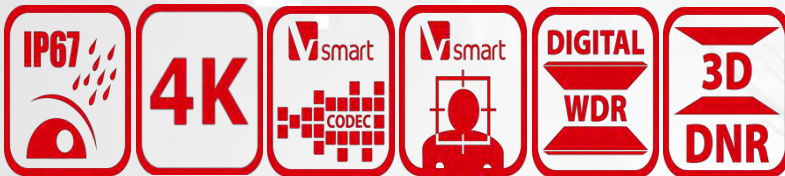


## DS-2CD4AC5F-IZ(H)(S) 4K Smart Bullet Camera



The 4K series Smart cameras are able to capture super high quality images.

DS-2CD4AC5F-IZ(H)(S) offers 12MP HD resolution with up to 15fps frame rate, DWDR, PoE, Defog, 3D DNR and complete Smart Feature-set to meet a wide variety of applications.

### smart IPC

DS-2CD4AC5F-IZ(H)(S) 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, Rotate Mode, Edge Recording, etc.

#### **Smart Image Control**

Support distortion correction

- 1/1.7" Progressive Scan CMOS
- 4000 × 3000 @15fps frame rate
- Slow shutter
- DWDR
- 3D DNR
- Up to 50m IR range
- Motorized lens with Smart Focus
- -H: built-in heater
- -S: audio/alarm IO
- Support 128G on-board storage
- DC12V/PoE
- IP67



## 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: AF lens

### Image

- HD 4000 × 3000@15fps
- Supports image distortion correction
- Support rotate mode, 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.

### Infrared

- Irradiation distance is up to 50m
- IR anti-reflection panel, increase infrared light transmittance.
- Smart IR, prevent over-exposure in close distance

### System

- Support ONVIF (profile S/profile G), CGI, PSIA, ISAPI protocol.
- Support three streams, and Support 20 channels live view at the same time.
- AF automatic fast focus, maintain focused during zooming
- Smart heater for starting in extra low temperature (-H optional)
- Anti-surge, anti-static, IP67 protection level.

### Interface

- Support standard 128G Micro SD/SDHC/SDXC card storage.
- Support 10M/100M/1000M Ethernet Port.
- Support Audio I/O (-S), support dual channel stereo audio.
- Support Alarm I/O (-S)
- Support CVBS analog output (-S, 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 IP for many times error login

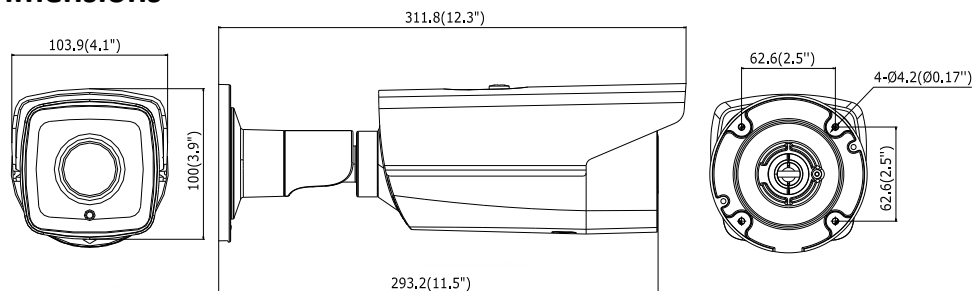
# DS-2CD4AC5F-IZ(H)(S) 4K Smart Bullet Camera



## Specification

<b>Camera</b>	
Image Sensor	1/1.7" Progressive Scan CMOS
Min. Illumination	0.01 Lux @ (F1.2, AGC ON), 0.014 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter Speed	1s ~ 1/100,000s
Slow Shutter	Support
Lens	2.8~12mm @ F1.4, angle of view, 93.6°~31.8°
Lens Mount	AF automatic focusing and motorized zoom lens
Auto-iris	DC drive
Day & Night	IR Cut Filter with auto switch
WDR	DWDR
<b>Compression Standard</b>	
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)
<b>Image</b>	
Max. Resolution	4000 × 3000
Frame Rate	50Hz: 15fps (4000 × 3000), 22fps (4096 × 2160), 25fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 15fps (4000 × 3000), 22fps (4096 × 2160), 24fps (3840 × 2160), 30fps (3072 × 1728, 2560 × 1440, 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	Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser
Regional Cropping	Support
Distortion Correction	Support
Day/Night Switch	Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128x128 24bit bmp format
<b>Network</b>	
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),PSIA,CGI,ISAPI
<b>Interface</b>	
Audio (-S)	1-ch 3.5 mm audio in(Mic in/Line in)/out interface
Communication Interface	1 RJ45 10M/100M/1000M Ethernet port
Alarm (-S)	1 input, 1 output (up to DC24V 1A or AC110V 500mA)
Video Output (-S)	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 (-S)

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)

### General

Protection Level	IP67
Operating Conditions	-30°C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing); -H: -40°C – 60 °C
Power Supply	12 V DC ± 10%, PoE (802.3at)
IR Distance	Up to 50m
Power Consumption	Max. 12 W
Dimensions	100×103.9×311.8 mm (3.94" × 4.09" × 12.28")
Weight	2000 g (4.41 lbs)

### Order Models

DS-2CD4AC5F-IZ, DS-2CD4AC5F-IZS, DS-2CD4AC5F-IZH, DS-2CD4AC5F-IZHS