SIMPLE AND POWERFUL
THE EASIER JOURNEY TO BETTER SECURITY
EasyIP 3.0 SOLUTION

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EasyIP 3.0

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EasyIP 3.0 SOLUTION

THE EasyIP SOLUTION

Video surveillance does not have to be complex. Technological advancements in every corner of our lives is becoming more and more simplified and user friendly. And it's true in security, too.

What makes the best security system? The right components in the right places. And for the small to medium sized business with budget and time restrictions, Hikvision has got the right solution. The Easy IP 3.0 Solution. For those who know the earlier EasyIP versions, this is the go-to, out-of-the-box system. It gets the job done with stable, reliable components and advanced features from the industry's number one worldwide solutions provider.
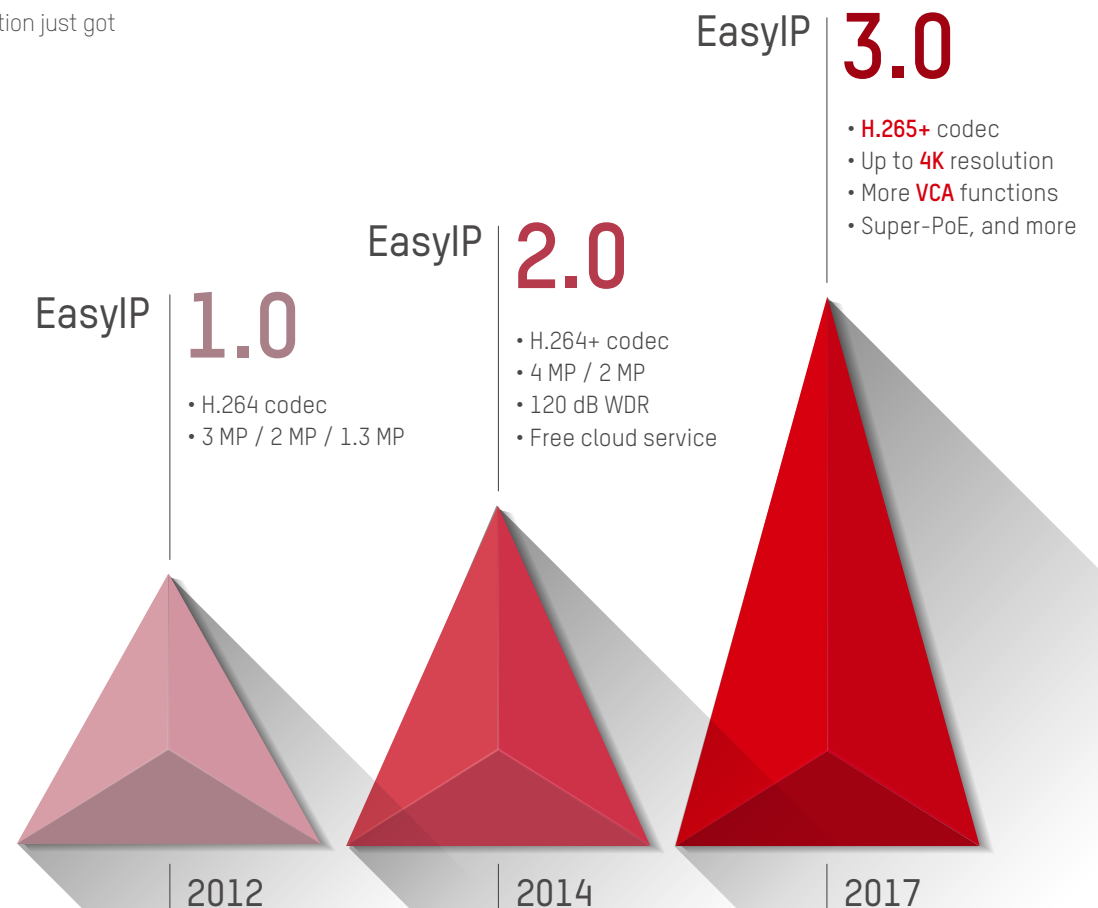
The EasyIP 3.0 Solution from Hikvision is truly the easier way to better security. Keep reading to see all the benefits EasyIP offers.

In 2012, Hikvision launched the first iteration of the EasyIP Solution, making a significant impact on the industry. EasyIP 1.0 employed the H.264 codec and offered 1.3, 2, and 3 MP cameras. Security professionals around the world took advantage of this cost-effective and easy-to-install system, pleasing many customers.

Hikvision responded to the increased demand for this renowned solution, applying more advanced technologies in 2014. The result was EasyIP 2.0, utilizing the H.264+ codec, and this time offering 2 and 4 MP cameras. More than that, the 2.0 version carried 120 dB Wide Dynamic Range cameras and free cloud service, opening up new possibilities and extending system management. But Hikvision was not finished.

Now, in 2017, the EasyIP 3.0 Solution operates with the H.265+ codec, maximizing resources and taking video surveillance resolution up to 4K! What's more, the 3.0 version provides more VCA functions, extended power-over-Ethernet functionality, and more. The best SMB solution just got better!

EasyIP **3.0**

- **H.265+** codec
- Up to **4K** resolution
- More **VCA** functions
- Super-PoE, and more

EasyIP **2.0**

- H.264+ codec
- 4 MP / 2 MP
- 120 dB WDR
- Free cloud service

EasyIP **1.0**

- H.264 codec
- 3 MP / 2 MP / 1.3 MP

2012

2014

2017

KEY FEATURES

H.265+

If you could cut down bandwidth, decrease data storage requirements, and improve overall system performance with one reliable, advanced codec, you would save time, money, and resources. Why would you say no? Tested and proven, Hikvision's signature compression technology does all this – and more. Boost resolutions to ultra-high 4K and get the most precise imaging available. Here's how it works.

Prediction Encoding

Noise Suppression

Bitrate Control

smart
CODEC

H.265+

The latest codec technology in video surveillance

H.265

■ Daytime ■ Night

Chart 1:

24-Hour File Size (GB)

- H.264: 17.9 (Daytime), 4.8 (Night)
- H.265: 9.5 (Daytime), 2.3 (Night)
- H.265+: 3.3 (Daytime), 0.56 (Night)
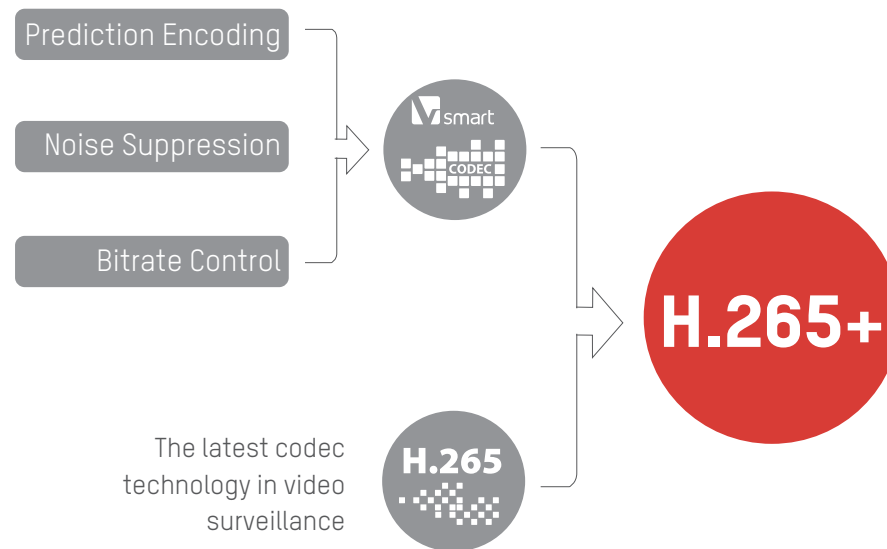
Up to 83% difference
Up to 67% difference
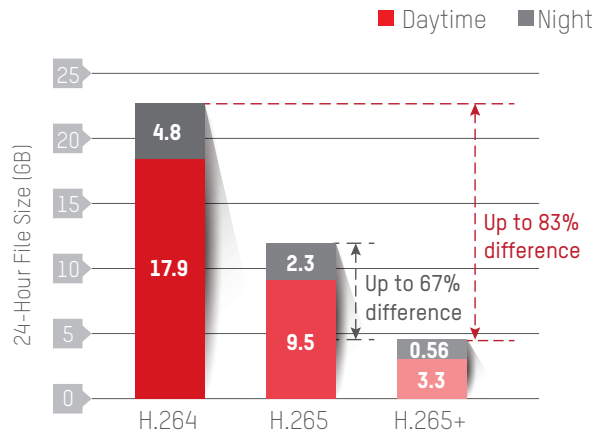
24-Hour recording file size (GB) comparing H.264, H.265, and H.265+
*Data was tested in a common scene; for reference only.

Chart 2:

- H.264: 5 cameras
- H.265: 10 cameras
- H.265+: 20+ cameras

20 MB Broadband Network

Chart 3:

- H.264: 0.5 month
- H.265: 1 month
- H.265+: 2 month
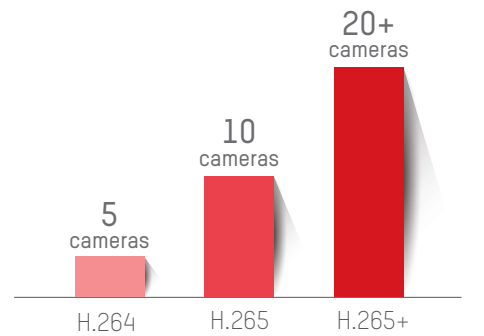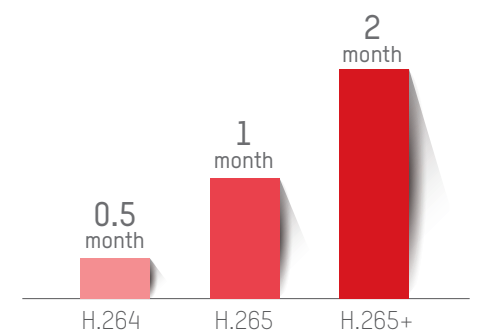
Eight 2-MP cameras

5TB HDDs

4K

Recently, ultra-high-definition surveillance cameras introduced 4K resolution to the security industry. However, 4K resolution has yet to achieve wide application, mainly because of the tremendous bandwidth and data storage requirements. The H.265+ codec optimizes data efficiency and makes 4K video surveillance possible. Every pixel comes to life with vivid clarity.

2MP

3MP

5MP

8MP

4K Camera

H.265+ / H.265
H.264+ / H.264
Self-adaptive

4K NVR

Non-simultaneous output

VGA 1080p

HDMI 4K Display
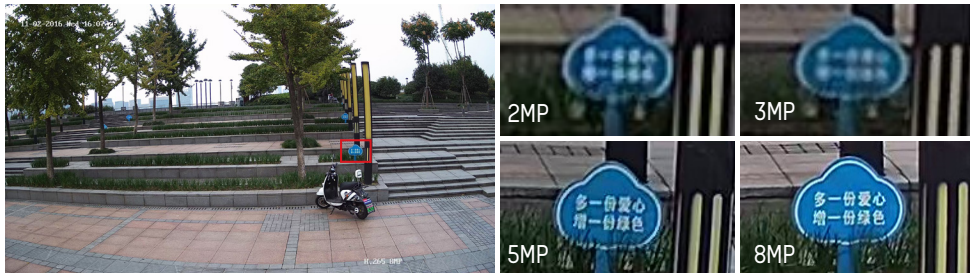
VCAs

Video Content Analytics is no longer reserved only for enterprise level security systems. The EasyIP solution brings VCAs into reach for SMB security, too. Staff can use the Smart Search tool for Alarm event and VCA detection, and the Smart Playback function to replay footage capturing line-crossing, intrusions, and faces. Alarm triggering and investigation are further enhanced with object removal and unattended baggage detection as well.

More VCA functions improve the system efficiency

Line crossing detection

Intrusion detection
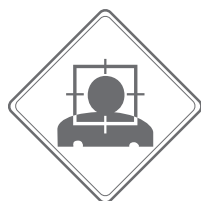
Face detection

Unattended baggage detection

Object removal detection

Network Cameras

Smart Search

Alarm event
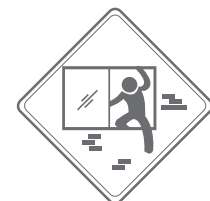
VCA detections

NVRs

11:18
Line Crossing Detection

14:05
Intrusion Detection

17:30
Face Detection

● Normal ● Important ● Custom   Tag

1 Day

02:00   04:00   06:00   08:00   10:00   12:00   14:00   16:00   18:00   20:00   22:00   24:00

1X

Smart Search and Playback

06

Super PoE

The EasyIP 3.0 Solution is also the easier way to get better video surveillance to and from the most important locations. While traditional PoE travels only 100 meters, this solution features Super PoE—upgraded power-over-Ethernet—transmitting both power and data over the same cable up to 300 meters (using 802.3af, CAT.6).

Up to **300** meters

(802.3af, CAT.6)

Network Cameras

NVRs

OTHER FEATURES

Designed for state-of-the-art performance with easier installation, our solution comes armed with reliable components and robust protections. With automatic network backup features and simple Internet connection services, a vigorous security system goes into operation quickly— and stays that way.

- Designed for easier installation

- 120 dB WDR (Wide Dynamic Range)

- EXIR 2.0

- Triple-stream

- On-board storage

- IP67, IP66, & IK10 protection

- ANR (Automatic Network Replenishment)

- Dual system backup (NVR)

- IP address automatic allocation

- Free Hik-connect cloud service

▶ **Designed for easier installation**
- Integrated, hidden junction box
- Pluggable interface; no "pigtail" cables

▶ 120 dB Wide Dynamic Range

04-21-2016 16:39:49

WDR off

04-21-2016 16:38:33

WDR on

▶ Automatic Network Replenishment

Network connection lost

IPC records on SD card

Recorded video transfers to NVR
automatically after network recovery

▶ EXIR 2.0

10-28-2016 Fri 21:16:24

H.264

Captured with conventional IR camera

10-28-2016 Fri 21:17:09

H.265
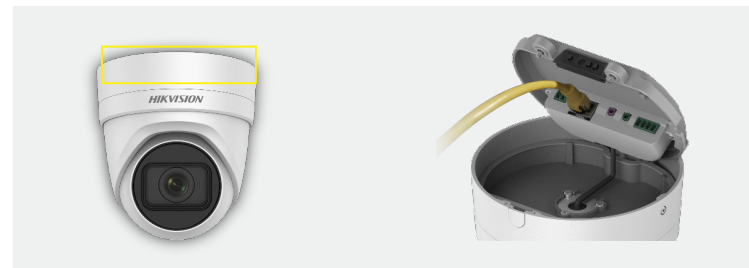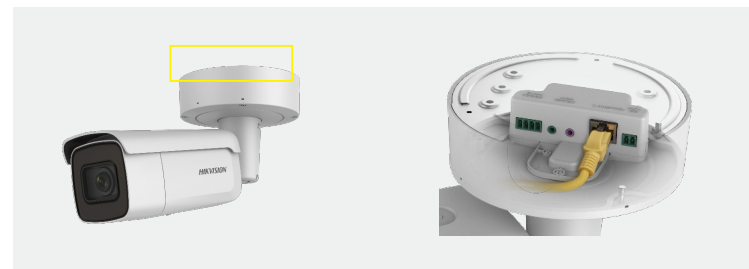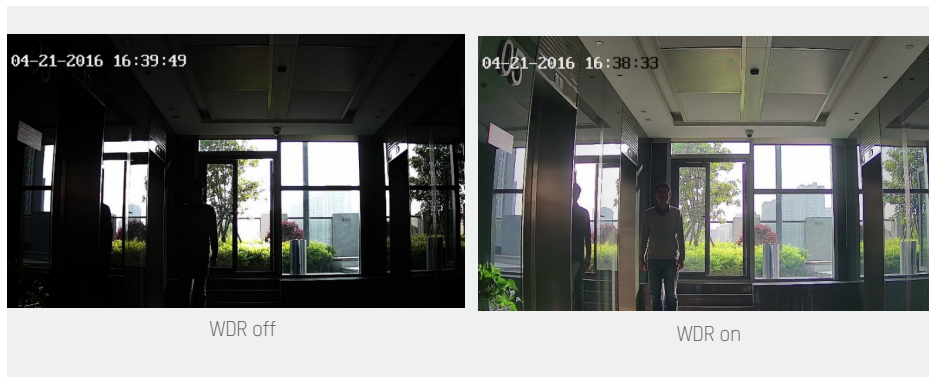
Captured with an EasyIP 3.0 camera
equipped with EXIR 2.0
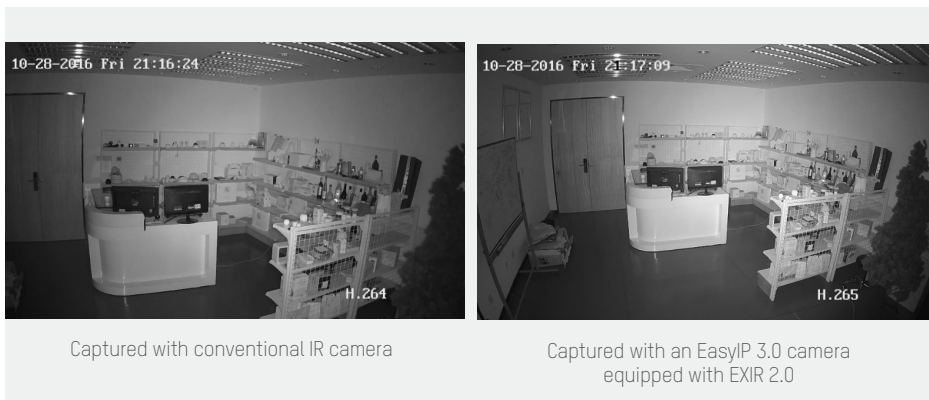
▶ Dual System Backup (NVRs)

Once NVR does not start up normally under the 1st system, the backup system will take over. It
ensures the NVR always can start up with this dual system industry design.

System 1

System 2

Model	DS-2CD2055FWD-I	DS-2CD2155FWD-I(S)	DS-2CD2355FWD-I	DS-2CD2455FWD-I(W)	DS-2CD2555FWD-I(S)
	5MP	5MP	5MP	5MP	5MP
Image sensor	1/2.9" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS
Max. Resolution	2560 × 1920	2560 × 1920	2560 × 1920	2560 × 1920	2560 × 1920
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG
Min. IllumiN/Ation	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)
WDR	120dB	120dB	120dB	120dB	120dB
Lens	2.8mm/4mm/6mm	2.8mm/4mm	2.8mm/4mm/6mm/8mm	2.8 mm	2.8 mm
FOV	81°/63.5°/50°	81°/63.5°	81°/63.5°/50°/33°	81°	81°
IR Range	Up to 30 m	Up to 30 m	Up to 30 m	up to 10 m	up to 10 m
VCA	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection
Frame Rate	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Ingress Protection	IP67	IP67, IK10	IP67	——	IP67, IK10
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°	Pan: 0° to 355° , tilt: 0° to 75°, rotate: 0° to 355°	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°	Pan: 0° to 360°, tilt: 0° to 90°	Pan: -30° to +30°, tilt: 0° to 75°, rotate: 0° to 360°
Working Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-10 °C to +40°C (14 °F to 104 °F)	-30 °C to +60 °C (-22 °F to +140 °F)
Humidity	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)
On-board Storage	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB
Audio I/O	——	1/1(-S)	——	Build-in mic., Build-in speaker	Build-in mic., 1 output (line out)
Alarm I/O	——	1/1(-S)	——	1/1	1/1
Power Supply	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)

Model	DS-2CD2T55FWD-I5/I8	DS-2CD2655FWD-IZ(S)	DS-2CD2755FWD-IZ(S)	DS-2CD2H55FWD-IZ(S)	DS-2CD2085FWD-I
	5MP	**5MP**	**5MP**	**5MP**	**8MP**
Image sensor	1/2.9" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS
Max. Resolution	2560 × 1920	2560 × 1920	2560 × 1920	2560 × 1920	3840 × 2160
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.265/MJPEG	H.265+/H.265/H.264+/H.265/MJPEG	H.265+/H.265/H.264+/H.265/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG
Min. IllumiN/Ation	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)
WDR	120dB	120dB	120dB	120dB	120dB
Lens	2.8mm/4mm/6mm/12mm/16mm	2.8-12mm	2.8-12mm	2.8-12mm	2.8mm/4mm/6mm
FOV	81°/63.5°/50° 12 mm 16 mm	110° to 33°	110° to 33°	——	102°/78°/50°
IR Range	I5: Up to 50 m I8: up to 80 m	Up to 50 m	Up to 30 m	Up to 30 m	Up to 30 m
VCA	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection
Frame Rate	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)	Main stream 50Hz: 20 fps (2560 × 1920), 25 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720) 60Hz: 20 fps (2560 × 1920), 30 fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 ×720)	Main stream 50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Ingress Protection	IP67	IP67, IK10	IP67, IK10	IP67	IP67
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 100°, rotate: 0° to 360°	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Working Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)
Humidity	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)
On-board Storage	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB
Audio I/O	——	1/1(-S)	1/1(-S)	1/1(-S)	——
Alarm I/O	——	1/1(-S)	1/1(-S)	1/1(-S)	——
Power Supply	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)

Model	DS-2CD2185FWD-I(S)	DS-2CD2385FWD-I	DS-2CD2485FWD-I(W)	DS-2CD2T85FWD-I5/I8	DS-2CD2685FWD-IZ(S)
	8MP	8MP	8MP	8MP	8MP
Image sensor	1/2.5" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS
Max. Resolution	3840 × 2160	3840 × 2160	3840 × 2160	3840 × 2160	3840 × 2160
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.265/MJPEG
Min. IllumiN/Ation	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)
WDR	120dB	120dB	120dB	120dB	120dB
Lens	2.8mm/4mm	2.8mm/4mm/6mm	2.8 mm	2.8mm/4mm/6mm/12mm/16mm	2.8-12mm
FOV	102°/78°	102°/78°/50°	102°	81°/63.5°/50° 12 mm 16 mm	110° to 33°
IR Range	Up to 30 m	Up to 30 m	Up to 10 m	I5: Up to 50 m I8: up to 80 m	Up to 50 m
VCA	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection
Frame Rate	Main stream 50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)	Main stream 50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)	Main stream 50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)	Main stream 50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)	Main stream 50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Ingress Protection	IP67, IK10	IP67	——	IP67	IP67, IK10
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°	Pan: 0° to 360°, tilt: 0° to 90°	Pan: 0° to 360°, tilt: 0° to 100°, rotate: 0° to 360°	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Working Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-10 °C to +40°C (14 °F to 104 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)
Humidity	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)
On-board Storage	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB
Audio I/O	1/1(-S)	——	Build-in mic., Build-in speaker	——	1/1(-S)
Alarm I/O	1/1(-S)	——	1/1	——	1/1(-S)
Power Supply	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)

Model	DS-2CD2785FWD-IZ(S)	DS-2CD2H85FWD-IZ(S)	DS-2CD2935FWD-I(S)	DS-2CD2955FWD-I(S)
Image sensor	1/2.5" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS
Max. Resolution	3840 × 2160	3840 × 2160	2048 × 1536	2560 × 1920
Video Compression	H.265+/H.265/H.264+/H.265/MJPEG	H.265+/H.265/H.264+/H.265/MJPEG	H.265+/H.265/MJPEG	H.265+/H.265/MJPEG
Min. IllumiN/Ation	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.01 lux @(F1.2, AGC ON)	Color: 0.005Lux @ (F1.2, AGC ON)	Color: 0.005Lux @ (F1.2, AGC ON)
WDR	120dB	120dB	120dB	120dB
Lens	2.8-12mm	2.8-12mm	1.16mm	1.16mm
FOV	110° to 33°	——	horizontal field of view: 180°, vertical field of view: 180°	horizontal field of view: 180°, vertical field of view: 180°
IR Range	Up to 30 m	Up to 30 m	Up to 15 m	Up to 15 m
VCA	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Line crossing detection, intrusion detection, object removal detection, unattended baggage detection, face detection	Motion Detection, DyN/Amic AN/Alysis, Intrusion Detection, Line Crossing Detection	Motion Detection, DyN/Amic AN/Alysis, Intrusion Detection, Line Crossing Detection
Frame Rate	Main stream 50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)	Main stream 50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)	Main stream 50Hz: 25fps (2048 × 1536, 1600 × 1200, 1280 × 960) 60Hz: 30fps (2048 × 1536, 1600 × 1200, 1280 × 960)	Main stream 50Hz: 25fps (2048 × 1536, 1600 × 1200, 1280 × 960) 60Hz: 30fps (2048 × 1536, 1600 × 1200, 1280 × 960)
Multi-streaming	3 streams	3 streams	2 streams	2 streams
Ingress Protection	IP67, IK10	IP67	——	——
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°	——	——
Working Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-10 °C to +50 °C (-14 °F to +122 °F)	-10 °C to +50 °C (-14 °F to +122 °F)
Humidity	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)	Humidity 95% or less (——-condensing)
On-board Storage	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB	Built-in microSD/SDHC/SDXC slot, up to 128 GB
Audio I/O	1/1(-S)	1/1(-S)	1/1(-S)	1/1(-S)
Alarm I/O	1/1(-S)	1/1(-S)	1/1(-S)	1/1(-S)
Power Supply	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)	DC 12V ± 25%, PoE(802.3af)