

## Network Camera Firmware

**Version: V5.5.80**

### Release Note

**(2018-11-01)**

<b>Firmware Basic Information</b>	Firmware Version:	V5.5.80build 180911
	SDK Version:	V5.3.6.35_build20180830
	iVMS-4200	V2.6.11.5Build180905

### Compatibility Update

- **Milestone:**

1. Milestone Enterprise 8.1a(10.2a), Milestone drive version (Driver 9.6, test HIKCGI
2. Milestone software version (Milestone Corporate 11.3a), Milestone drive version (Driver 9.6), test HIKCGI

- **Avigilon:**

Control Center: V6.8.6.4

- **Exacqvision:**

1. Version: .2.3.130093
2. Protocol: HIKCGI, ONVIF

- **Intellect:** V4.10.3

- **Digifort:** V7.2.1

- **Axxon:** AxxonNext-4.0.2.5237

- **Tested NVRs:**

DS-96256NI-I24/H (baseline V3.2.8\_170213\_05) 96000 I Series

96000NI-I Series NVR (V3.6.21)

E Series: DS-7732NI -E4/16P(V3.4.92)

Netra DVR: DS-9016HFI-ST (V3.4.3)

DeepInmind NVR

- **Tested Keyboard:**

DS-1600KI V2.0.0

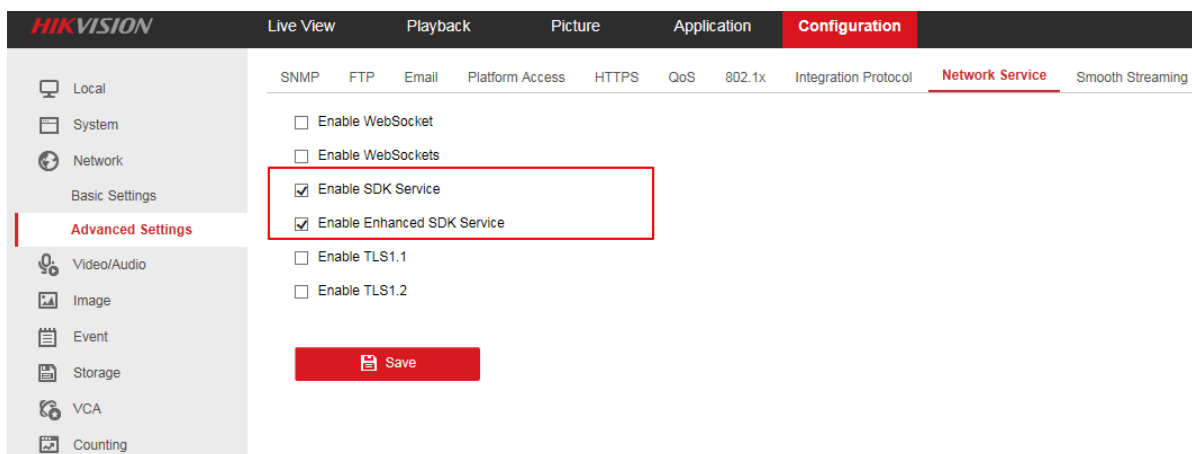
DS-1006KI V1.0

## Hikvision Firmware V5.5.80 Features

*\*for DS-2CD2XX3, DS-2CD2XX5, DS-2XM6XX6 Cameras*

### 1. New Features

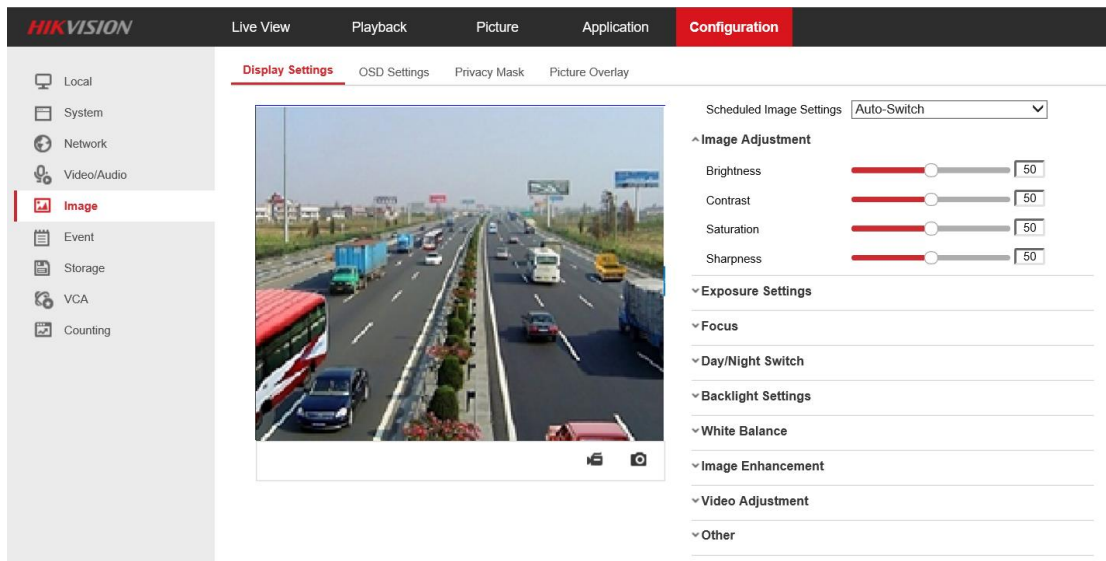
- **Newly add the Enhanced SDK(SDK over TLS) service port configuration and the default port is 8443.**  
**The range of port configuration is 2000 to 65535.**
- **Add the Enhanced SDK service and SDK service switch. The service is enabled by default.**



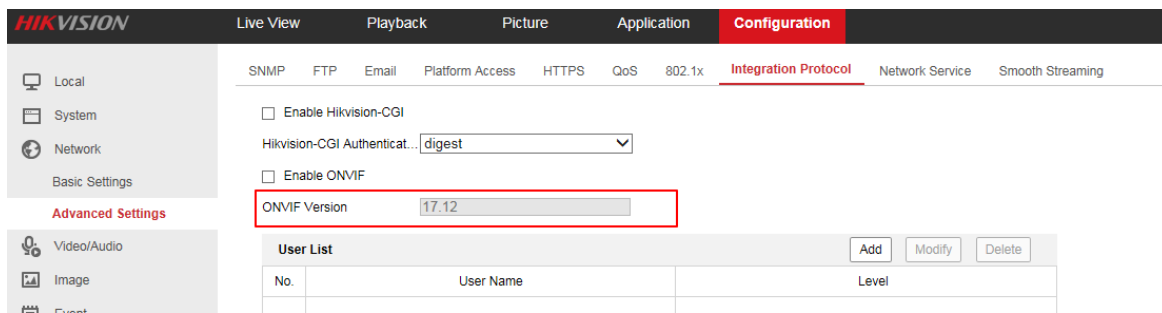
- **The operation of restoring won't change the status of SDK service, only the default operation will change the service status to be enabled.**
- **The enhanced SDK service function is disabled by default if the device is upgrading from previous version to V5.5.80. For new devices with V5.5.80, the SDK service is enabled by default.**
- **For the device, which the HC verification code is the combination of capital & Small ABCDEF or empty code can not be accessed to the Hik-Connect with V1.5.54 or above. For those old device without verification code, if the device is unbound with Hik-connect account and the verification code is empty, it needs server assign a verification code when the APP first adds the device. The device can register and bind to the Hik-connect account within 24 hours. It needs to add it again if**

out of 24 hours. There is no influence after upgrading if the device is already bind to the Hik-connect account.

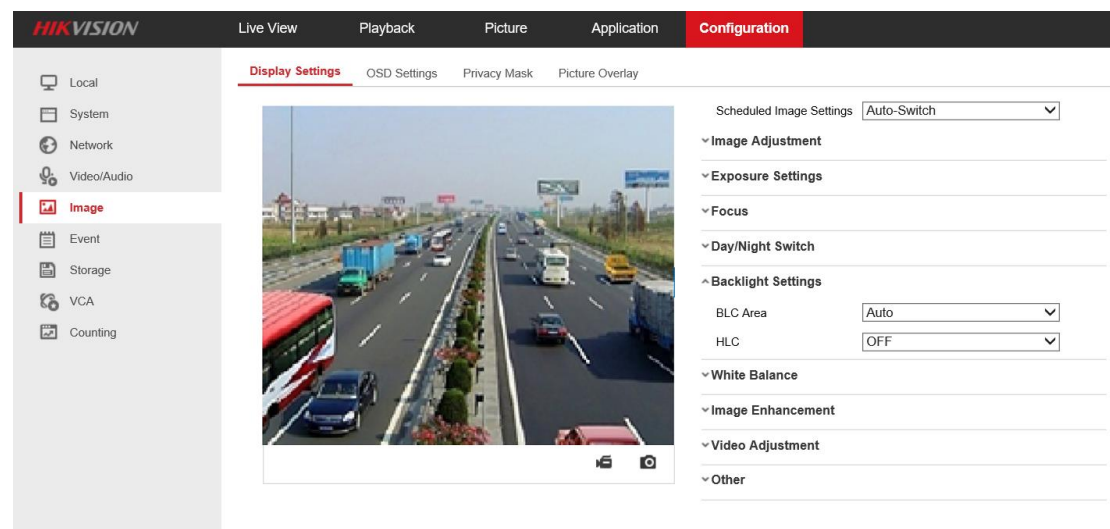
- Password cannot include account. Some part of devices default password is admin+ verification code, these devices are no need to activate. This specification is required if the user changes the password.
- The Host name/IP will change to random string when the self-signed certificate is generated by factory. The device supports exporting self-signed root certificate. After upgrading to the new firmware version, the device will automatically rebuild the Hostname/IP according to the default self-signed certificate. The operation of restoring will keep the same status as before if the user deletes the certificate. It is necessary to rebuild the self-signed certificate if defaulting the device. Add the judgement process when certificate is deleted, the certificate cannot be deleted and it will pop-up hint if the Websockets, HTTPS, Enhanced SDK Service functions are enabled.
- Newly add display the characters supporting by username and password:  
User name: A-Z,a-z,0-9 and !#\$%&'()\*+,-./:;<=>@[ ]^ `{|}~ space  
Password: A-Z,a-z,0-9 and !"#%&'()\*+,-./:;<=>@[ ]^ `{|}~ space
- Support WebSocket and WebSockets. WebSocket is enabled as default. After restore WebSocket remain status as before. After default settings, WebSocket back to enable status. WebSockets is disabled as default. After restore or default settings, WebSockets back to disabled status.
- HTTPS is enabled by default. The status of HTTPS will keep same as before if restoring the device. Only default operation will change the HTTPS status to be enabled as default.
- ONVIF is disabled by default. The status of ONVIF will keep same as before if restoring the device. Only default operation will change the ONVIF status to be disabled as default.
- Newly add TLS1.1 and TLS1.2 Enable selection box. TLS1.1 and TLS1.2 is enabled as default. After restore or default, TLS1.1 and TLS1.2 will be back to enable status. TLS1.0 is unsupported. For compatibility reason, Email, Wi-Fi and 802.1x are still support TLS1.0. TLS1.1 and TLS1.2 cannot be disable at the same time.
- The series port debug command has been changed from zhimakaimen to debug.
- Newly add 'Start Recording' and 'Capture' bottom on Web-Configuration-Image interface, to save picture or clip to local.



**The ONVIF version can be checked in the web interface.**



**Newly add Auto mode of BLC (Backlight Compensation) Area. When enable HLC (High Light Compression) and auto mode BLC Area at the same time, HLC works, auto mode BLC does not work.**



**Newly support Focus and Zoom in/out on Hik-Connect APP.**

**32 languages are available (Traditional Chinese, English, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovakia, French, Polish, Dutch, Portuguese, Spanish, Russian, Japanese, Turkish,**

Korean, Thai, Estonia, Vietnamese, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovene, Serbian, Latvia, Lithuanian, Brazilian Portuguese)

- SSID is blank in Wi-Fi configuration interface by default. Support enable and disable Wi-Fi. Wi-Fi is enabled status as default.
- Wi-Fi cameras support dual color (blue & red) indicator flash light, and it supports to be enabled or disabled on web.
- When light flashes blue: Successfully connected  
When light flashes red: Normal on: camera is starting up. Slow flashing: network connect failure; Fast flashing: SD card or other failure. Fast flashing means the lights on and off in every 200ms, while for slow flashing is 2 second.  
When the blue and red flash alternatively: camera starts up successfully and ready for Wi-Fi connect.
- Hik-Connect stream.

<u>Standard</u>	<u>Using main stream. And it won't change the main stream type.</u>
<u>Basic</u>	<u>If camera sub stream is 4CIF/VGA/nHD(640x360), the resolution won't changed. If not, it will change sub stream to default resolution, 10fps, 256kbps.</u>
<u>Fluent</u>	<u>If camera sub stream is 320x240/CIF, the resolution won't be changed. Then if sub stream support 320x240/CIF, it will change the sub stream resolution to 320x240 or CIF (according to the order).Other condition, it will change sub stream to default resolution, 8fps, 128kbps.</u>

- Import configuration file won't change the DHCP status.

## Customer Impact and Recommended Action

This update refers to function/compatibility improvement and will take effect automatically after the  
Internal

Date of Change. We are very sorry for any inconvenience of use-habit changes caused by this action. For any questions and request for this firmware, please contact our local technical support team.

**Remarks:**

- Hikvision reserves the right to change, alter or withdraw the above notification without prior notice.
- Product design and specifications are subject to change without prior notice.
- The Hikvision firmware may contain defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.
- Hikvision is not liable for any typing or printing errors.

Hikvision Digital Technology CO., Ltd.  
No. 555 Qianmo Road, Binjiang District, Hangzhou  
310051, China  
Tel: +86-571-8807-5998

<b>Supported Product List (3XX3/3XX5/2XX3/2XX5/6XX6 Series)</b>		
<b>Product Category</b>	<b>Model Number</b>	<b>Product Description</b>
EXIR Fixed Cube	DS-2CD2483G0-I	8MP,IR,WDR
Mini EXIR Bullet	DS-2CD2025FWD-I	2MP, IR, WDR
Mini EXIR Bullet	DS-2CD2035FWD-I	3MP, IR, WDR
Mini EXIR Bullet	DS-2CD2045FWD-I	4MP, IR, WDR
Mini EXIR Bullet	DS-2CD2055FWD-I	5MP, IR, WDR
Mini EXIR Bullet	DS-2CD2085FWD-I	8MP, IR, WDR
Mini EXIR Bullet	DS-2CD2025FHWD-I	2MP, IR, WDR, High frame rate
EXIR Fixed Dome	DS-2CD2125FWD-I(S)	2MP, IR, WDR, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2125FWD-IM	2MP, IR, WDR, HDMI output
EXIR Fixed Dome	DS-2CD2135FWD-I(S)	3MP, IR, WDR, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2145FWD-I(S)	4MP, IR, WDR, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2155FWD-I(S)	5MP, IR, WDR, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2185FWD-I	8MP, IR, WDR, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2125FHWD-I(S)	2MP, IR, WDR, High frame rate, , Audio/Alarm optional
EXIR Turret	DS-2CD2325FWD-I	2MP, IR, WDR
EXIR Turret	DS-2CD2335FWD-I	3MP, IR, WDR
EXIR Turret	DS-2CD2345FWD-I	4MP, IR, WDR

EXIR Turret	DS-2CD2355FWD-I	5MP, IR, WDR
EXIR Turret	DS-2CD2385FWD-I	8MP, IR, WDR
EXIR Turret	DS-2CD2325FHWD-I	2MP, IR, WDR, High frame rate
EXIR Fixed Cube	DS-2CD2425FWD-I(W)	2MP, IR, WDR, Audio
EXIR Fixed Cube	DS-2CD2435FWD-I(W)	3MP, IR, WDR, Audio
EXIR Fixed Cube	DS-2CD2455FWD-I(W)	5MP, IR, WDR, Audio
EXIR Fixed Dome	DS-2CD2525FWD- I(W)(S)	2MP, IR, WDR, Wi-Fi optional, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2525FHWD- I(W)(S)	2MP, IR, WDR, High frame rate, Wi-Fi optional, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2535FWD- I(W)(S)	3MP, IR, WDR, Wi-Fi optional, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2545FWD- I(W)(S)	4MP, IR, WDR, Wi-Fi optional, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2555FWD-I(W)(S)	5MP, IR, WDR, Wi-Fi optional, Audio/Alarm optional
EXIR Bullet	DS-2CD2T25FWD-I5/I8	2MP, IR, WDR
EXIR Bullet	DS-2CD2T35FWD-I5/I8	3MP, IR, WDR
EXIR Bullet	DS-2CD2T45FWD-I5/I8	4MP, IR, WDR
EXIR Bullet	DS-2CD2T55FWD-I5/I8	5MP, IR, WDR
EXIR Bullet	DS-2CD2T85FWD-I5/I8	8MP, IR, WDR
EXIR Bullet	DS-2CD2T25FHWD-I5/I8	2MP, IR, WDR, High frame rate
EXIR VF Turret	DS-2CD2625FHWD-IZS	2MP, IR, WDR, Motorized lens, high frame rate, Audio/Alarm
EXIR VF Bullet	DS-2CD2625FWD-IZS	2MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2635FWD-IZS	3MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2645FWD-IZS	4MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2655FWD-IZS	5MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2685FWD-IZS	8MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Turret	DS-2CD2725FHWD-IZS	2MP, IR, WDR, Motorized lens, high frame rate, Audio/Alarm
EXIR VF Dome	DS-2CD2725FWD-IZS	2MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2735FWD-IZS	3MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2745FWD-IZS	4MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2755FWD-IZS	5MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2785FWD-IZS	8MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Turret	DS-2CD2H25FHWD-IZS	2MP, IR, WDR, Motorized lens, high frame rate, Audio/Alarm
EXIR VF Turret	DS-2CD2H25FWD-IZS	2MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Turret	DS-2CD2H35FWD-IZS	3MP, IR, WDR, Motorized lens, Audio/Alarm

EXIR VF Turret	DS-2CD2H45FWD-IZS	4MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Turret	DS-2CD2H55FWD-IZS	5MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Turret	DS-2CD2H85FWD-IZS	8MP, IR, WDR, Motorized lens, Audio/Alarm
Mini EXIR Bullet	DS-2CD2023G0-I	2MP, IR, WDR
Mini EXIR Bullet	DS-2CD2043G0-I	4MP, IR, WDR
Mini EXIR Bullet	DS-2CD2063G0-I	6MP, IR, WDR
Mini EXIR Bullet	DS-2CD2083G0-I	8MP, IR, WDR
EXIR Fixed Dome	DS-2CD2123G0-I(S)	2MP, IR, WDR, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2143G0-I(S)	4MP, IR, WDR, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2163G0-I(S)	6MP, IR, WDR, Audio/Alarm optional
EXIR Fixed Dome	DS-2CD2183G0-I(S)	8MP, IR, WDR, Audio/Alarm optional
EXIR Turret	DS-2CD2323G0-I	2MP, IR, WDR
EXIR Turret	DS-2CD2343G0-I	4MP, IR, WDR
EXIR Turret	DS-2CD2363G0-I	6MP, IR, WDR
EXIR Turret	DS-2CD2383G0-I	8MP, IR, WDR
EXIR Fixed Bullet	DS-2CD2T23G0-I5/8	2MP, IR, WDR
EXIR Fixed Bullet	DS-2CD2T43G0-I5/8	4MP, IR, WDR
EXIR Fixed Bullet	DS-2CD2T63G0-I5/8	6MP, IR, WDR
EXIR Fixed Bullet	DS-2CD2T83G0-I5/8	8MP, IR, WDR
EXIR VF Bullet	DS-2CD2623G0-IZS	2MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2623G1-IZ(S)	2MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2643G0-IZS	4MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2643G1-IZ(S)	4MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2663G0-IZS	6MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2663G1-IZ(S)	6MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2683G0-IZS	8MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Bullet	DS-2CD2683G01-IZ(S)	8MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2723G0-IZS	2MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2723G1-IZ(S)	2MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2743G0-IZS	4MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2743G1-IZ(S)	4MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2763G0-IZS	6MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2763G1-IZ(S)	6MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2783G0-IZS	8MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Dome	DS-2CD2783G1-IZ(S)	8MP, IR, WDR, Motorized lens, Audio/Alarm



EXIR VF Turret	DS-2CD2H23G0-IZS	2MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Turret	DS-2CD2H43G0-IZS	4MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Turret	DS-2CD2H63G0-IZS	6MP, IR, WDR, Motorized lens, Audio/Alarm
EXIR VF Turret	DS-2CD2H83G0-IZS	8MP, IR, WDR, Motorized lens, Audio/Alarm
Mobile Fixed Dome	DS-2XM6726FWD-IS	2MP, IR, WDR
Mobile Fixed Dome	DS-2XM6726FWD-IM	2MP, IR, WDR, HDMI output
Mobile Fixed Dome	DS-2XM6736FWD-IS	3MP, IR, WDR
Mobile Fixed Dome	DS-2XM6736FWD-IM	3MP, IR, WDR, HDMI output
Mobile Fixed Dome	DS-2XM6756FWD-IS	5MP, IR, WDR
Mobile Fixed Dome	DS-2XM6756FWD-IM	5MP, IR, WDR, HDMI output
EXIR Fixed Cube	DS-2CD2423G0-I	2MP, IR, WDR, Audio
EXIR Fixed Cube	DS-2CD2443G0-I	3MP, IR, WDR, Audio
EXIR Fixed Cube	DS-2CD2463G0-I	5MP, IR, WDR, Audio
EXIR Fixed Dome	DS-2CD2523G0-I	2MP, IR, WDR, Audio
EXIR Fixed Dome	DS-2CD2543G0-I	3MP, IR, WDR, Audio
EXIR Fixed Dome	DS-2CD2563G0-I	5MP, IR, WDR, Audio