

Network Camera Firmware

Version: V5.5.81

Release Note (**External**)

(2018-11-06)

Firmware Basic Information	Firmware Version:	V5.5.81_180910
	SDK Version:	V5.3.6.35_build20180830
	iVMS-4200 Version:	V2.6.11.5_build180905

Compatibility Update

- Milestone Enterprise 8.1a (2016 R2 10.2a), Milestone Device Pack 9.6
- Milestone Corporate 2017 R3 11.3a, Milestone Device Pack 9.6
- Exacqvision:

Version: 9.2.3.130093

- Avigilon Control Center:

Version: V6.8.6.4

- 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

5/7 Series Camera Firmware V5.5.81 build180910 Features

**for all IPC platforms*

New Features

- Newly add the Enhanced SDK 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 those devices with factory 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.

- The password doesn't allow contain the user name. It is no need to activate the devices with the default password includes admin + verification code. The specification is required if the user wants to change 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.
- The available characters of user name are as below:
User name: A-Z,a-z,0-9 and !#\$%&'()*+,-./;<=>@[]^_`{|}~blank space
Password: A-Z,a-z,0-9 and !"#%&'()*+,-./;<=>@[]^_`{|}~blank space
- 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.
- HTTPS skip automatically is supported and is disabled by default. Newly add the HTTPS port mapping.
- 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.
- The ONVIF version can be checked in the web interface.

- The series port debug command has been changed from zhimakaimen to debug.
- 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. When disable TLS1.1 and TLS1.2 at the same time, it will show Device error.
- Newly add 'Start Recording' and 'Capture' bottom on Web-Configuration-Image interface, to save picture or clip to local.
- 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.
- SSID is blank in Wi-Fi configuration interface by default. Support enable and disable Wi-Fi. Wi-Fi is enabled status as default.
- Hik-Connect server online upgrading is removed and no upgrade button in web interface and IVMS-4200 client software.
- 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>
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- Import configuration file won't change the DHCP status.
- 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

**for H3 platform IPC*

New Features

- 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.
- The supported browser of plug-in free is above Firefox52 and above Chrome45.
- The supported function of plug-in free has updated compared with previous version.
- For 8MP face capture models, the maximum snap picture resolution is 3840*2160.

- For 7 series camera, it's not recommend to enable mirror function on face capture mode. It will influence face capture performance when enable mirror.
- If face capture camera is in manual focus mode, the lens won't do initialization when power on.
- Third stream supports MJPEG, default resolution is 720P/10fps.
- DS-2CD7126G0/L supports custom report type, user can set start time and end time. Camera can give the queueing-up time analysis and queue status result in the customized time period. The report can be exported as txt or excel, and txt is the default format. The longest custom time is 31 days. Both web client and ivms 4200 support this function.
- DS-2CD7126G0/L supports queueing-up alarm when the regional person number is 1 while threshold is set as 0.
- 5 series camera optimizes IR performance.
- Support 32 languages: Traditional Chinese, English, Russian, Turkish, Japanese, Korean, Thai, Vietnamese, Estonian, Bulgarian, Hungarian, Czech, Slovak, French, Italian, German, Spanish, Portuguese, Polish, Greek, Dutch, Romanian, Finnish, Norwegian, Danish, Swedish, Croatian, Serbian, Slovenian, Latvian, Lithuanian, Brazil Portuguese.
- Support upload the metadata protocol for Road Traffic, Queue detection, Intrusion detection, Line crossing detection, Region Entrance/Exiting detection, Unattended baggage detection, Object removal detection and face capture. Metadata protocol supports upload rule information, target ID and target position. Metadata is enabled by default when the above event is enabled. SDK DEMO supports display real-time result.
- Optimize the ABF electrical motor process.

Customer Impact and Recommended Action

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

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Supported Product List (5XXX, 7XXX)

Product Category	Model Number	Product Description
Box Camera	DS-2CD5026G0-(A)(P)	2MP, 60fps, 140dB WDR
Box Camera	DS-2CD5046G0-(A)(P)	4MP, 140dB WDR
Box Camera	DS-2CD5065G0-(A)(P)	6MP, ABF, P-iris optional
Box Camera	DS-2CD5085G0-(A)(P)	8MP, ABF, P-iris optional
Box Camera	DS-2CD50C5G0-(A)(P)	12MP, ABF, P-iris optional
Indoor Dome Camera	DS-2CD5126G0-IZS (2.8-12mm)	2MP, 60fps, 140dB WDR
Indoor Dome Camera	DS-2CD5146G0-IZS (2.8-12mm)	4MP, IK10, 140dB WDR
Indoor Dome Camera	DS-2CD5165G0-IZS (2.8-12mm)	6MP, IK10, WDR
Indoor Dome Camera	DS-2CD5185G0-IZS (2.8-12mm)	8MP, IK10, WDR
Indoor Dome Camera	DS-2CD51C5G0-IZS (2.8-12mm)	12MP, IK10, IR
Anti-Corrosion Dome Camera	DS-2CD5526G0-IZ(H)SY(2.8-12mm)(8-32mm)	2MP, IR, Anti-Corrosion
Anti-Corrosion Dome Camera	DS-2CD5546G0-IZ(H)SY(2.8-12mm)	4MP, IR, Anti-Corrosion
Outdoor Dome Camera	DS-2CD5565G0-IZ(H)S(2.8-12mm)	6MP, IR, WDR
Outdoor Dome Camera	DS-2CD5585G0-IZ(H)S(2.8-12mm)	8MP, IR, Heater optional
Outdoor Dome Camera	DS-2CD55C5G0-IZ(H)S(2.8-12mm)	12MP, IR, Heater optional
Bullet Camera	DS-2CD5A26G0-IZ(H)S(2.8-12mm)(8-32mm)	2MP, IR, WDR, Heater optional
Anti-Corrosion Bullet Camera	DS-2CD5A26G0-IZ(H)SY(2.8-12mm)	2MP, IR, Anti-Corrosion
Bullet Camera	DS-2CD5A46G0-IZ(H)S(2.8-12mm)	4MP, IR, WDR, Heater optional
Anti-Corrosion Bullet Camera	DS-2CD5A46G0-IZ(H)SY(2.8-12mm)	4MP, IR, Anti-Corrosion
Bullet Camera	DS-2CD5A65G0-IZ(H)S(2.8-12mm)	6MP, IR, Heater optional
Bullet Camera	DS-2CD5A85G0-IZ(H)S(2.8-12mm)	8MP, IR, Heater optional
Bullet Camera	DS-2CD5AC5G0-IZ(H)S(2.8-12mm)	12MP, IR, Heater optional
Box Camera with housing	DS-2CD5026G0/E-I(H)	2MP, IR, Heater optional
Box Camera	DS-2CD7026G0-(A)(P)	2MP, P-iris optional
Box Camera	DS-2CD7046G0-(A)(P)	4MP, P-iris optional
Box Camera	DS-2CD7065G0-(A)(P)	6MP, P-iris optional
Box Camera	DS-2CD7085G0-(A)(P)	8MP, P-iris optional

Indoor Dome Camera	DS-2CD7126G0-IZS(2.8-12mm)(8-32mm)	2MP, IK10, WDR, IR
Indoor Dome Camera	DS-2CD7126G0/L-IZS(2.8-12mm)	2MP, IK10, WDR, IR
Indoor Dome Camera	DS-2CD7146G0-IZS(2.8-12mm)	4MP, IK10, WDR, IR
Indoor Dome Camera	DS-2CD7165G0-IZS(2.8-12mm)	6MP, IK10, IR
Indoor Dome Camera	DS-2CD7185G0-IZS(2.8-12mm)	8MP, IK10, IR
Outdoor Dome Camera	DS-2CD7526G0-IZ(H)S(2.8-12mm) (8-32mm)	2MP, IR, WDR
Outdoor Dome Camera	DS-2CD7546G0-IZ(H)S(2.8-12mm)	4MP, IR, WDR
Outdoor Dome Camera	DS-2CD7565G0-IZ(H)S(2.8-12mm)	6MP, IR, WDR
Outdoor Dome Camera	DS-2CD7585G0-IZ(H)S(2.8-12mm)	8MP, IR, WDR
Bullet Camera	DS-2CD7A26G0-IZ(H)S(2.8-12mm)(8-32mm)	2MP, IR, WDR
Bullet Camera	DS-2CD7A46G0-IZ(H)S(2.8-12mm)	4MP, IR, WDR
Bullet Camera	DS-2CD7A65G0-IZ(H)S(2.8-12mm)	6MP, IR, Heater optional
Bullet Camera	DS-2CD7A85G0-IZ(H)S(2.8-12mm)	8MP, IR, Heater optional