

Network Camera Firmware

Version: V5.6.10

Release Note (**Internal**)

(2019-11-07)

Firmware Basic Information	Firmware Version:	V5.6.10_190919
	SDK Version:	V6.1.0.45 build20190909
	iVMS-4200	V3.1.2.1_190919

5/7 Series Camera Firmware V5.6.10 build190919 Features

1. Optimization

- Newly support SFTP function and the encrypted algorithm includes AES128, AES256. The default algorithm is AES256. Multicast, audio and video are supported with SRTP. SRTP and RTSP can be used simultaneously. iVMS-4200 and SDK demo can access stream with SRTP. Audio and video encryption are also supported with SRTP, the supported protocol includes UDP and Multicast. WebComponents doesn't support access stream with SRTP. It is necessary to select the proper certificate and the function can take effect. The status of certificate can be checked in the Certificate Management interface.
- Support encrypt SD card. If a memory card is installed, its encryption status is displayed: Unencrypted, encrypted and verification failed. For the unencrypted memory card, you can click Format or Encrypted Format to format it. The encryption password is required for the encryption format. The encrypted memory card cannot playback in the Windows computer directly.
- Support encrypted upload with ISAPI and the protocol can select HTTPS. For Queue detection and Face capture function, it can upload alarm picture with HTTP/HTTPS. And other smart event and basic event don't support it.

- Support Security Audit Log function. The flash log won't be deleted when restoring or defaulting the device. The total capability can save 800 logs. Enable Log Upload Server and Enable Encrypted Transmission options are disabled by default. It is necessary to install certificate in the certificate management interface if enabling encrypted transmission.
- Newly support Certificate Management function. Create Self-signed Certificate is supported. Only 16 certificates are allowed for the CA certificate and Server and Client certificate. The permissions of the certificate are shown as below:
 - 1) Certificate Management: Only administrators have the permission of configuration, and other user only has the permission of checking.
 - 2) Certificate Select.
 - 3) Certificate Expiration Alarm.
- Support Certificate Expiration Alarm function.
- Support Recording Expiration. It is disabled by default. If enabling it, the deleted recordings cannot be restored. The expired time can be set range from 1 to 90 days.
- Support EPTZ Patrol function. It will delete all the set patrol paths and presets after restoring and defaulting device. The function is supported for all 5 series IPCs and 7 series IPCs except DS-2CD7126G0/L-IZS, which it is only supported under Smart Event mode for 7 series IPCs. EPTZ is disabled by default and the original PTZ function cannot be used after enabling EPTZ. RS-485 cannot be used with EPTZ simultaneously.
- Support EPTZ Auto-tracking function. The function is supported for all 5 series IPCs and 7 series IPCs except DS-2CD7126G0/L-IZS, which it is only supported under Smart Event mode for 7 series IPCs. For 7 series IPCs, Human or Vehicle can be selected.
- For smart event, it supports overlay rule frame and target frame on background picture with sub-stream. The smart event includes Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting

Detection, Unattended Baggage Detection and Object Removal Detection.

Detection target is not supported. User can enable local rule information in Web at same time.

- Support stream rule. Support overlay stream rule on live view image, overlay rule frame, and target frame on background picture. Supported smart event includes intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection and object removal detection.
- Privacy mask type newly support mosaic.
- FTP/SFTP support automatic replenishment. Supported event includes: queue detection, face capture, and smart event (intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection and object removal detection).
- Queue management function supports store regional people queuing-up and waiting time detection event picture. It needs to enable upload to FTP/Memory Card/NAS.
- IP Address Filter function supports filter via IP segment.
- Change the position of Smart Display as shown in the below interface.
- Upgrade face capture version. Cancel invalid capture filter function.
- Change the name of Ehome 5.0 to ISUP.
- Illegal login attempt time is different with email reset password attempt time. Illegal login attempt time can be configured and 7 is default. Email reset password attempt time is 3.
- Optimize HEOP license saving mechanism and validity function.

Compatibility Update

- Milestone:

Milestone Corporate (ISAPI) version: 2018R2, 12.2a, 8608

- Exacq ISAPI version:

Version: 19.03.6.152960 (x64)



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- **Avigilon (ONVIF) version:**

Version: V6.8.20180110

- **Digifort:**

Version: V7.2.0.0

- **Tested NVRs:**

DeepInmind NVR: iDS-96128NXI-I16 V4.1.25, only for vehicle detection testing.

I Series:

DS-7716NI-I4 V4.1.64 build190119

DS-96256NI-I24/H V4.1.63 build181106

DS-7716NI-I4 NVR_K51_BL_CN_STD_V4.21.000_190409

- **Others:**

HikCentral platform version: V1.4.0.6, EHOME5.0

EHOME DEMO version: V2.2.1.151

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.
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Supported Product List (5XXX, 7XXX)		
NOTES: The models with red are new.		
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-2CD5085G0-(A)(P)	8MP, ABF, P-iris optional
Box Camera	DS-2CD50C5G0-(P)	12MP, 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-2CD5185G0-IZS (2.8-12mm)	8MP, IK10, WDR
Indoor Dome Camera	DS-2CD51C5G0-IZS (2.8-12mm)	12MP, IK10, WDR
Indoor Dome Camera	DS-2CD5126G0-IZS (2.8-12mm)(B)	2MP, 60fps, 140dB WDR
Indoor Dome Camera	DS-2CD5146G0-IZS (2.8-12mm)(B)	4MP, IK10, 140dB WDR
Indoor Dome Camera	DS-2CD5185G0-IZS (2.8-12mm)(B)	8MP, IK10, WDR
Indoor Dome Camera	DS-2CD51C5G0-IZS (2.8-12mm)(B)	12MP, IK10, WDR
Anti-Corrosion Dome Camera	DS-2CD5526G0-IZHSY(2.8-12mm)(B)	2MP, IR, Anti-Corrosion
Anti-Corrosion Dome Camera	DS-2CD5546G0-IZHSY(2.8-12mm)(B)	4MP, IR, Auto-iris, Anti-Corrosion
Outdoor Dome Camera	DS-2CD5526G0-IZHS(2.8-12mm)(8-32mm)	2MP, IR, Heater optional
Outdoor Dome Camera	DS-2CD5546G0-IZHS(2.8-12mm)(8-32mm)	4MP, IR, WDR
Outdoor Dome Camera	DS-2CD5585G0-IZHS(2.8-12mm)(8-32mm)	8MP, IR, Heater optional
Outdoor Dome Camera	DS-2CD55C5G0-IZHS(2.8-12mm)	12MP, IR, Heater optional
Outdoor Dome Camera	DS-2CD5585G0-IZHS(2.8-12mm)(B)	8MP, IR, Heater optional
Outdoor Dome Camera	DS-2CD55C5G0-IZHS(2.8-12mm)(B)	12MP, IR, Heater optional
Outdoor Dome Camera	DS-2CD5526G1-IZHS(2.8-12mm)(8-32mm)	2MP, IR, Heater optional
Outdoor Dome Camera	DS-2CD5546G1-IZHS(2.8-12mm)(8-32mm)	4MP, IR, WDR
Outdoor Dome Camera	DS-2CD5585G1-IZHS(2.8-12mm)(8-32mm)	8MP, IR, WDR
Bullet Camera	DS-2CD5A26G0-IZ(H)S(2.8-12mm)(8-32mm)	2MP, IR, WDR, Heater optional
Bullet Camera	DS-2CD5A46G0-IZ(H)S(2.8-12mm)(8-32mm)	4MP, IR, WDR, Heater optional
Bullet Camera	DS-2CD5A46G0-IZ/UHS(2.8-12mm)	4MP, IR, WDR, Heater optional
Bullet Camera	DS-2CD5A85G0-IZ(H)S(2.8-12mm)(8-32mm)	8MP, IR, Heater optional
Bullet Camera	DS-2CD5AC5G0-IZ(H)S(2.8-12mm)	12MP, IR, Heater optional
Bullet Camera	DS-2CD5A26G0-IZHSY(2.8-12mm)(B)	2MP, IR, WDR, Anti-Corrosion
Bullet Camera	DS-2CD5A46G0-IZHSY(2.8-12mm)(B)	4MP, IR, WDR, Anti-Corrosion
Bullet Camera	DS-2CD5A85G0-IZ(H)S(2.8-12mm)(B)	8MP, IR, Heater optional

Bullet Camera	DS-2CD5AC5G0-IZ(H)S(2.8-12mm)(B)	12MP, IR, Heater optional
Bullet Camera	DS-2CD5A26G1-IZ(H)S(2.8-12mm)(8-32mm)	2MP, IR, WDR
Bullet Camera	DS-2CD5A46G1-IZ(H)S(2.8-12mm)(8-32mm)	4MP, IR, WDR
Bullet Camera	DS-2CD5A85G1-IZ(H)S(2.8-12mm)(8-32mm)	8MP, IR, WDR
Box Camera	DS-2CD7026G0-(A)(P)	2MP, P-iris optional
Box Camera	DS-2CD7046G0-(A)(P)	4MP, 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)(8-32mm)	4MP, IK10, WDR, IR
Indoor Dome Camera	DS-2CD7185G0-IZS(2.8-12mm)(8-32mm)	8MP, IK10, IR
Indoor Dome Camera	DS-2CD7126G0-IZS(2.8-12mm)(B)	2MP, IK10, WDR, IR
Indoor Dome Camera	DS-2CD7126G0/L-IZS(2.8-12mm)(B)	2MP, IK10, WDR, IR
Indoor Dome Camera	DS-2CD7146G0-IZS(2.8-12mm)(B)	4MP, IK10, WDR, IR
Indoor Dome Camera	DS-2CD7185G0-IZS(2.8-12mm)(B)	8MP, IK10, IR
Outdoor Dome Camera	DS-2CD7526G0-IZHSY(2.8-12mm)	2MP, IR, Anti-Corrision
Outdoor Dome Camera	DS-2CD7546G0-IZHSY(2.8-12mm)	4MP, IR, Anti-Corrision
Outdoor Dome Camera	DS-2CD7526G0-IZHS(2.8-12mm) (8-32mm)	2MP, IR, WDR
Outdoor Dome Camera	DS-2CD7546G0-IZHS(2.8-12mm)(8-32mm)	4MP, IR, WDR
Outdoor Dome Camera	DS-2CD7585G0-IZHS(2.8-12mm)(8-32mm)	8MP, IR, WDR
Outdoor Dome Camera	DS-2CD7526G0-IZHS(2.8-12mm)(B)	2MP, IR, WDR
Outdoor Dome Camera	DS-2CD7546G0-IZHS(2.8-12mm)(B)	4MP, IR, WDR
Outdoor Dome Camera	DS-2CD7585G0-IZHS(2.8-12mm)(B)	8MP, IR, WDR
Bullet Camera	DS-2CD7A26G0-IZ(H)S(2.8-12mm)(8-32mm)	2MP, IR, WDR
Bullet Camera	DS-2CD7A26G0-IZHSY(2.8-12mm)	2MP, IR, Anti-Corrision
Bullet Camera	DS-2CD7A46G0-IZHS(2.8-12mm)(8-32mm)	4MP, IR, WDR
Bullet Camera	DS-2CD7A46G0-IZHSY(2.8-12mm)	4MP, IR, Anti-Corrision
Bullet Camera	DS-2CD7A85G0-IZHS(2.8-12mm)(8-32mm)	8MP, IR, Heater optional
Bullet Camera	DS-2CD7A26G0-IZ(H)S(2.8-12mm)(B)	2MP, IR, WDR

Bullet Camera	DS-2CD7A46G0-IZ(H)S(2.8-12mm)(B)	4MP, IR, WDR
Bullet Camera	DS-2CD7A85G0-IZ(H)S(2.8-12mm)(B)	8MP, IR, WDR

Supported P-iris Model:

DS-2CD5546G0-IZHS(8-32)
DS-2CD5585G0-IZHS(8-32)
DS-2CD5A46G0-IZ(H)S(8-32)
DS-2CD5A85G0-IZ(H)S(8-32)
DS-2CD7146G0-IZS(8-32)
DS-2CD7185G0-IZS(8-32)
DS-2CD7546G0-IZHS(8-32)
DS-2CD7585G0-IZHS(8-32)
DS-2CD7A46G0-IZHS(8-32)
DS-2CD7A85G0-IZHS(8-32)
DS-2CD5526G1-IZHS(2.8-12)
DS-2CD5526G1-IZHS(8-32)
DS-2CD5546G1-IZHS(2.8-12)
DS-2CD5546G1-IZHS(8-32)
DS-2CD5585G1-IZHS(2.8-12)
DS-2CD5585G1-IZHS(8-32)
DS-2CD5A26G1-IZ(H)S(2.8-12)
DS-2CD5A26G1-IZ(H)S(8-32)
DS-2CD5A46G1-IZ(H)S(2.8-12)
DS-2CD5A46G1-IZ(H)S(8-32)
DS-2CD5A85G1-IZ(H)S(2.8-12)
DS-2CD5A85G1-IZ(H)S(8-32)
DS-2CD5126G0-IZS(2.8-12) (B)
DS-2CD5146G0-IZS(2.8-12) (B)
DS-2CD5185G0-IZS(2.8-12) (B)
DS-2CD51C5G0-IZS(2.8-12) (B)
DS-2CD5526G0-IZHS(2.8-12) (B)
DS-2CD5546G0-IZHS(2.8-12) (B)
DS-2CD5585G0-IZHS(2.8-12) (B)
DS-2CD55C5G0-IZHS(2.8-12) (B)
DS-2CD5A26G0-IZ(H)S(2.8-12) (B)
DS-2CD5A46G0-IZ(H)S(2.8-12) (B)
DS-2CD5A85G0-IZ(H)S(2.8-12) (B)
DS-2CD5AC5G0-IZ(H)S(2.8-12) (B)
DS-2CD5526G0-IZ(H)SY(2.8-12) (B)
DS-2CD5546G0-IZ(H)SY(2.8-12) (B)
DS-2CD5A26G0-IZ(H)SY(2.8-12) (B)
DS-2CD5A46G0-IZ(H)SY(2.8-12) (B)



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DS-2CD7126G0-IZS(2.8-12) (B)
DS-2CD7146G0-IZS(2.8-12) (B)
DS-2CD7185G0-IZS(2.8-12) (B)
DS-2CD7126G0/L-IZS(2.8-12) (B)
DS-2CD7526G0-IZHS(2.8-12) (B)
DS-2CD7546G0-IZHS(2.8-12) (B)
DS-2CD7585G0-IZHS(2.8-12) (B)
DS-2CD7A26G0-IZ(H)S(2.8-12) (B)
DS-2CD7A46G0-IZ(H)S(2.8-12) (B)
DS-2CD7A85G0-IZ(H)S(2.8-12) (B)