

Network Camera Firmware

Version: V5.5.111

Release Note

(2020-10-24)

Firmware Basic Information	Firmware Version:	V5.5.111_201010
	SDK Version:	V2.4.0.6 build20200817
	Hik Central	V1.6
	Hik Connect	V4.5.0.0609

4G Camera Firmware V5.5.111 build20201010 Features

1. New Features

- Support collecting 4G network, MCU and SOC information by FTP/SFTP log, all logs can save in the SD card, and then you can upload by FTP/SFTP.
- Support scheduled restart, which is enabled by default, and the default time is set 0:00 on Sunday per week.
- Support recording 4G offline log.
- Support overseas 4G NL668-EAU module and 4G SMS function isn't supported.
- Support upgrade the 4G module firmware.
- Support upgrade battery MCU.
- Support timing trigger to wake up picture capturing, it is not enabled by default.
Notify to Surveillance Center and upload to FTP/SD card/NAS are enabled by default.
- Support quick snapshot uploaded by ISUP5.0 protocol. The pictures can be stored with cloud storage. The device under sleep mode will cache the image to the EMMC/SD card if uploading failed, and the device can continuously upload the disconnected image when the device triggers the quick start next time.

- Support reporting and uploading 0%-100% device power status with Hik-Connect and IUSP5.0 protocol. Each time the protocol is activated (activated at the scheduled time, activated via platform), the power status will be reported once. If the platform is always connected, it will upload once per minute. The uploading frequency of power status is once 1 min under full power consumption mode.
- While the solar sleep mode at the Scheduled Sleep or Low Power Sleep mode turn to sleep-woken mode, 4G keeps low-power heartbeat during the device sleep wake-up period. When SOC is in Sleep mode, if the 4G network connection is abnormal, it will try to reconnect until the connection is successful. The time interval for reconnecting will increase from 0 minute, 1 minute, 10 minutes, 1 hour, 4 hours, and 24 hours, and after 6 reconnections the time interval is maintained for 24 hours. Only when the connection is successful, the interval time for the next network abnormality starts from 0 minutes. In sleep-woken mode, if no stream within 5 minutes, the restart mechanism will not take effect.
- Motion detection, Video Tampering, Smart Event and H.265+/H.264+ are not supported under Low Consumption Real-time Mode. 4G module is in a keep-alive state under Low Consumption Real-time Mode, which reduces the power consumption of the device, and device can be accessed remotely or be actively awakened by SOC. 4G sleep mode is enabled only after successfully connecting to Hik Connect or ISUP platform, it will not be enabled when Hik Connect/ISUP is not connected.
- The video coding differences under low power consumption:
Frame Rate: The default frame rate under PAL standard is 12.5fps, and the frame rate range is 1/16-12.5fps; the default frame rate under the NTSC standard is 15fps, and the frame

rate range is 1/16-15fps.

Image Quality: Medium (default).

Main Stream:

1920X1080P, 1Mbps by default

1280X960, 1Mbps by default

1280X720P, 1Mbps by default

Sub Stream:

704X576, 512Kbps by default

640X480, 512Kbps by default

- Scheduled Sleep is selectable, which is not enabled by default. If the user chooses to enable this function, according to the weekly configuration, 8 time periods can be configured for sleep time each day, and capture time interval can be configured for each time period, which is not selected by default. After selecting the time, you can set the capture time interval, ranging from 5-1440min, the default is 30 min. If capture interval is larger than or equal to the sleep time, it means no capture.
- Low Power Sleep is configurable and enabled by default, the range of threshold of low-power sleep mode is 5% ~50%, and the progress bar configuration is supported (by default 20%). When the user sets the sleep threshold to X, the SOC switches from the running mode to the sleep-woken mode when the device power is less than or equal to X, and when the battery power is larger than or equal to X+10%, the SOC switches from the sleep-woken mode to the mode has configured. Low Power Sleep is configurable under Full Consumption Mode and Low Consumption Real-Time Mode.
- Support switch the power consumption modes manually and only one mode can be

selected once, the default mode is Full Consumption Mode. "Low Power Sleep" and "Scheduled Sleep" are configurable under Full Consumption Mode and Low Consumption Real-Time Mode. If both of Low Power Sleep" and "Scheduled Sleep" are selected, continuing to report the screenshot based on the Scheduled Sleep interval and start time. It will not distinguish if it is a regular snapshot or a low-power snapshot.

- Support display battery on OSD.
- Support configure ISUP in web.
- Support configure 4G Pincode in web.

Compatibility Update

- Tested NVRs:

DS-7616NI-Q2/16P V3.4.109 build 191121

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.

Supported Product List

Product Category	Model Number
4G Solar Camera	DS-2CD3T23G1-I/4G(2.8mm) (STD) (Sample)
4G Solar Camera	DS-2CD3T23G1-I/4G(4mm) (STD) (Sample)
4G Solar Camera	DS-2CD3T23G1-I/4G(8mm) (STD) (Sample)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(2.8mm) (STD) (No package)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(4mm) (STD) (No package)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(8mm) (STD) (No package)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(2.8mm) (NEU) (No package)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(4mm) (NEU) (No package)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(8mm) (NEU) (No package)
4G Solar Camera	DS-2CD3T23G1-I/4G(2.8mm) (NEU) (Sample)
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4G Solar Camera	DS-2CD3T23G1-I/4G(8mm) (NEU) (Sample)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(2.8mm) (STD) (No Battery)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(4mm) (STD) (No Battery)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(8mm) (STD) (No Battery)



First Choice for Security Professionals

4G Solar Camera	DS-2XS6A25G0-I/CH20S40(2.8mm) (NEU) (No Battery)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(4mm) (NEU) (No Battery)
4G Solar Camera	DS-2XS6A25G0-I/CH20S40(8mm) (NEU) (No Battery)