

Network Video Recorder

Version: V4.40.015 build 200616

Release Note (2020-6-16)

Firmware Basic Information	Firmware Version:	V4.40.015 build 200616
	SDK Version:	V6.1.4.40 build20200428
	Play Library:	V7.3.8.45
	Web component:	V4.0.1 build200428
	OpenSDK Version:	V2.4.0

Reason of Upgrade

Add new features and optimize product performance.

Compatibility

The below new functions should be supported by the latest firmware of the software platform.

Software Platform	Firmware
iVMS 4200	V.3.4.0 or later
HCP	V.1.7 or later
Hik-Connect	V.4.1 or later

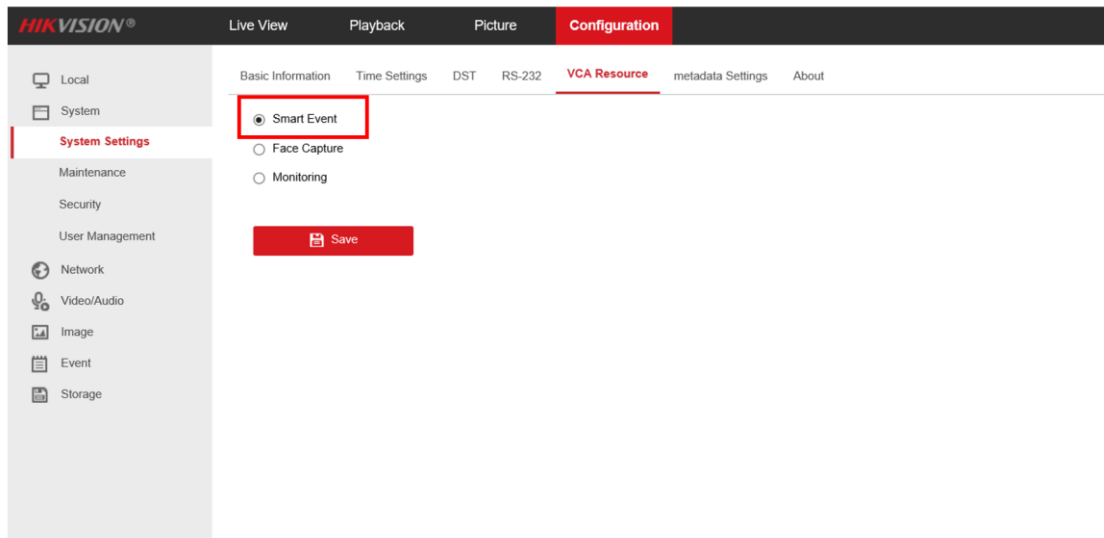
New features

1. 【Support adding motion detection 2.0 IPC】

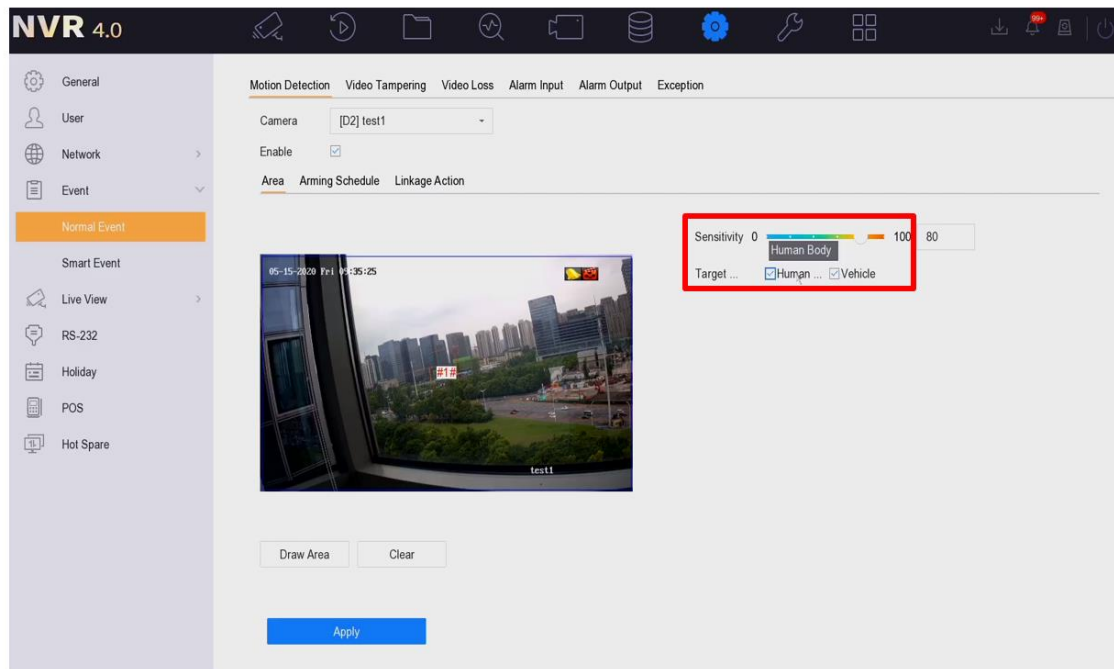
Motion detection 2.0: Motion detection 2.0 classifies the target types that trigger motion detection events into human, vehicle and moving objects.

- 1) Support IPC with motion detection 2.0 function, the specific model of IPC is DS-2CD20 (23 / 2T / 26) 2 (4/8) 6G2-I / SL, such as: DS-2CD2026G2-I / SL. The firmware version of IPC is required to be V5.5.130 and later. The other cameras' series or firmware could not support the functions of human-vehicle filtering and smart playback discussed below.

Reminder: Please switch the VCA resource to “Smart Event” in order to realize the function (from camera web) .



- 2) Support the local GUI and IE to configure the target filtering of human body and vehicle. According to the configuration of human body-vehicle filtering, there are three types of filtering conditions: motion detection (for all moving objects), motion detection + human body + picture, motion detection + vehicle + picture.

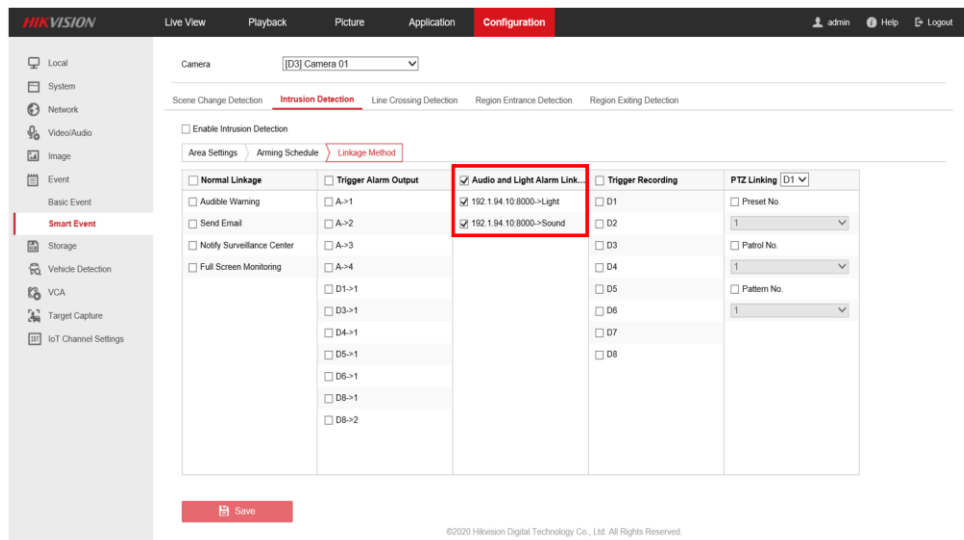


3) The smart playback interface for local playback and the remote ordinary playback interface add the option of human body/vehicle filtering. After clicking, the human body/vehicle video information will be marked in red on the progress bar.



2. 【Support adding audio and flash light alarm IPC】

1) The events that support the linkage of audio and flash light alarms are: Motion Detection (only for NVR that support motion detection 2.0), Intrusion Detection, Line Crossing Detection, Region Entrance Detection and Region Exiting Detection. This means those events triggered by each camera (managed by the NVR) can link the audio and flash light alarm provided by a specific camera (when the camera is built with audio/flash light).



2) Support the configuration of IPC audio and light parameters on the NVR WEB interface, and the operation information will be recorded in the log.

Reminder: The thermal cameras' audio and light parameters could not be configured in the NVR Web interface.

The screenshot shows the 'Configuration' page for 'Flashing Alarm Light Output'. The left sidebar contains navigation options: Local, System, Network, Video/Audio, Image, Event, Basic Event, Smart Event, Storage, Vehicle Detection, VCA, Target Capture, and IoT Channel Settings. The main content area has tabs for Motion, Video Tampering, Video Loss, Alarm Input, Alarm Output, Exception, **Flashing Alarm Light Output**, and Audible Alarm Output. The configuration fields include: Channel No. (192.1.94.10:8000), Flashing Duration (15 s), and Flashing Frequency (Medium Frequency). Below these is an 'Arming Schedule' section with a 'Delete All' button and a 7-day calendar grid where each day has a blue bar indicating the alarm is active from 0 to 24 hours.

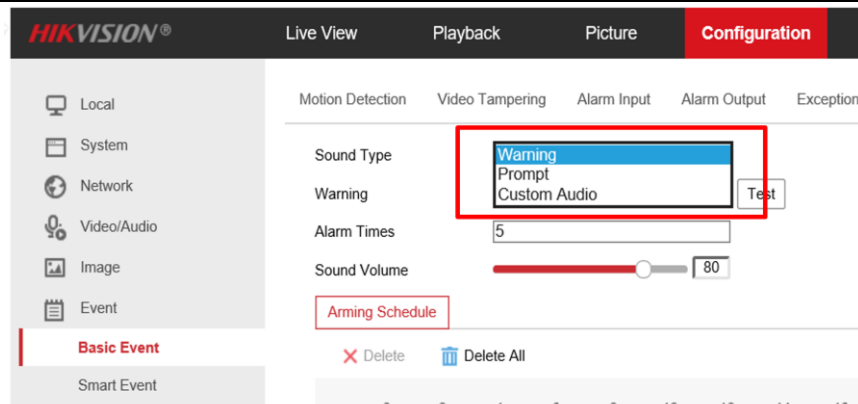
The screenshot shows the 'Configuration' page for 'Audible Alarm Output'. The left sidebar is the same as in the previous screenshot. The main content area has tabs for Motion, Video Tampering, Video Loss, Alarm Input, Alarm Output, Exception, **Flashing Alarm Light Output**, and **Audible Alarm Output**. The configuration fields include: Channel No. (192.1.94.10:8000), Sound Type (Warning), Warning (Warning_this is a restricted are), Alarm Times (5), and Sound Volume (80). Below these is an 'Arming Schedule' section with a 'Delete All' button and a 7-day calendar grid where each day has a blue bar indicating the alarm is active from 0 to 24 hours.

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Reminder: you can only search the sound type with “Warning” or “Prompt” in the NVR web. If you want to use the customized audio, please go to the camera web.

This is a close-up of the 'Sound Type' dropdown menu in the 'Audible Alarm Output' configuration page. The dropdown is open, showing three options: 'Warning', 'Prompt', and 'Siren'. The 'Warning' option is highlighted with a blue background and is enclosed in a red rectangular box.

NVR web configuration



Camera web configuration:

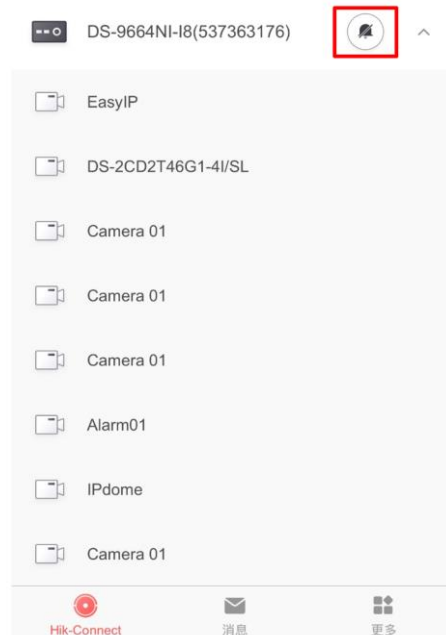
3) If you want to use these functions of audio and flash light alarm linkage, One-Key Do Not Disturb and One-Key Disarming, you need to use the following camera models and require the IPC firmware version number is V5.5.150 or later: DS-2CD2T47G2-L, DS-2CD3026G2-IS, DS-2CD3056G2-IS, DS-2CD3086G2-IS, DS-2CD3026G2-IU/SL, DS-2CD3056G2-IU/SL, DS-2CD3126G2-IS, DS-2CD3156G2-IS, DS-2CD3326G2-IS, DS-2CD3356G2-IS, DS-2CD3386G2-IS, DS-2CD3326G2-ISU/SL, DS-2CD3356G2-ISU/SL, DS-2CD3T26G2-4IS, DS-2CD3T56G2-4IS, DS-2CD3T86G2-4IS, DS-2CD3T26G2-ISU/SL, DS-2CD3T56G2-ISU/SL, DS-2CD3626G2T-IZS, DS-2CD3656G2T-IZS, DS-2CD3686G2T-IZS, DS-2CD3726G2T-IZS, DS-2CD3756G2T-IZS, DS-2CD3786G2T-IZS, DS-2CD3027G2-LS, DS-2CD3047G2-LS, DS-2CD3327G2-LS, DS-2CD3347G2-LS.

3. 【Support Hik-Connect to enable One-Key Do Not Disturb function】

1) After Hik-Connect enables the One-Key Do Not Disturb function, the NVR does not perform audio and light linkage and notify surveillance center, and the NVR alarm reception and recoding functions are carried out normally. After turning off the One-Key Do Not Disturb function, it returns to normal.

Reminder: The one-key do not disturb function can disable the performance of audio and light.

But the function does not turn off the linkage of important alarm events including Advanced Motion Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection and Region Exiting Detection.



2) The One-Key Do Not Disturb function will only take effect on the same day after it is turned on, and it will be automatically turned off at 0 o'clock the next day.

4. 【Support Hik-Connect to scan NVR QR code to recover password】

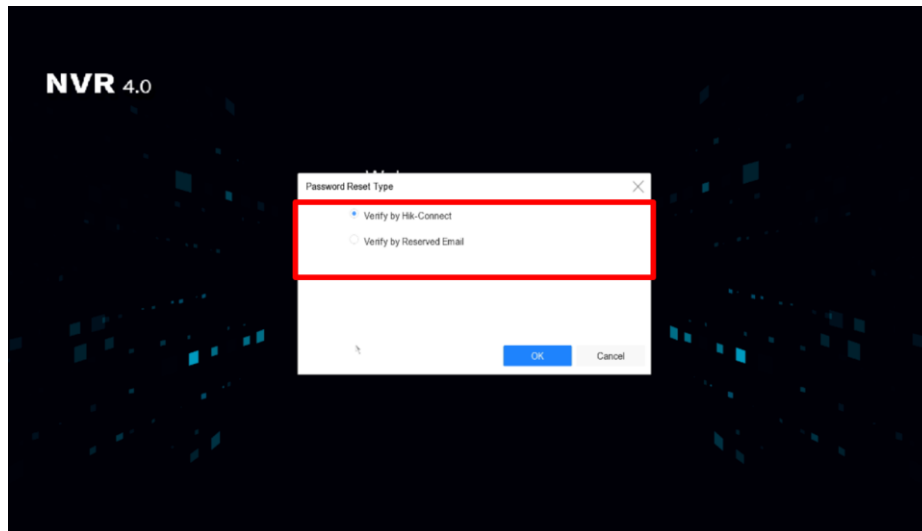
1) Support local HC QR code and mailbox to recover password

Reminder: Before you use mailbox to recover password, please reserve email address for resetting password in advance

- Go to Configuration->User on the local GUI of the device,
- Select admin user and then click modify, enter password to confirm permission.
- Modify the reserved E-mail for receiving verification code
- If you forget the admin password when logging in to the device, click Forgot Password and select Verify by Reserved Email.
- After clicking OK, the QR code for resetting password pops up.

- Then you can use Hik-Connect by tapping More->Reset Device Password page, and scan the QR code.
- A security code for verification will be sent to your registered email.

2) Local GUI delete the recovery way of GUID and security issues; WEB still retain GUID, security issues and mailbox to recover password.



Local GUI

1 2 3

Verify Identification Set New Password Complete

Verification Mode

Security Question 1

Answer

Security Question 2

Answer

Security Question 3

Answer

Next Clear

Security Question Verification
GUID File Verification
E-mail Verification

Your mother's name?

Your head teacher's name in senior high school

3) Only the NVR that has been bound to the HC will display the option to scan the code to recover the password.

4) Only the NVR-bound HC client account can successfully recover the password.

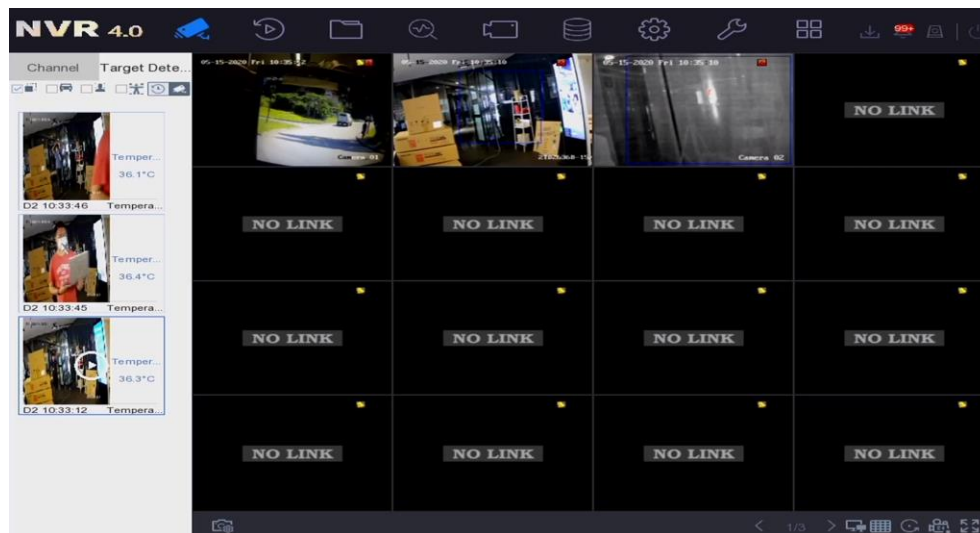
5) Require HC v4.3.0 and later.

5. 【Support local decoding multi-track streams UHD resolution IPC】

Support single-screen live view and playback of multi-track streams UHD resolution IPC. The specific model of IPC is: panoramic series camera with up to 32MP resolution, DS-2CD6944G0 and DS-2CD6984G0.

6. 【Support thermal camera temperature measurement alarm】

1) Support local target detection interface and 4200 to display real time temperature measurement alarm.



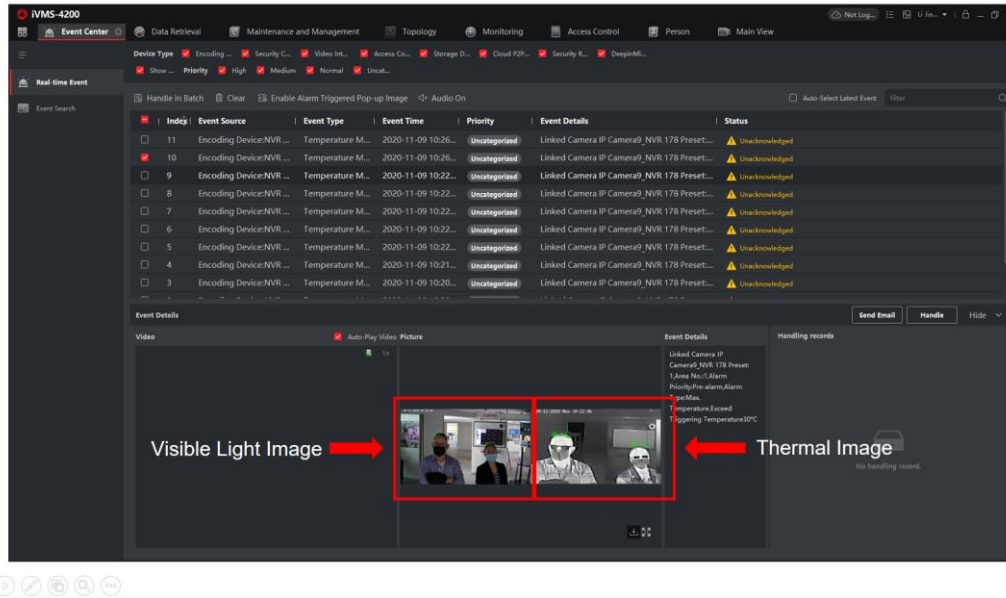
Reminder: In order to receive temperature alarm, please set relevant parameters in camera web. For example, it is necessary enable “Temperature Measurement”, “Face detection” and set “Linkage Method” (e.g. notify Surveillance Center if you want to receive alarm from 4200 platform).

The screenshot shows the 'Basic Settings' tab for 'Temperature Screening Configuration'. The 'Channel No.' is set to 'Camera 01'. The following options are checked: 'Enable Temperature Measurement', 'Display Temperature Info. on Stream', 'Add Original Data on Capture', and 'Add Original Data on Stream'. The 'Data Refresh Interval' is set to 3 seconds, the 'Unit' is 'Degree Celsius(°C)', and the 'Temperature Range' is '30.0-45.0'. The 'Version' is 'V2.0.0build20200614'. Under 'Target Thermographic Parameters', 'Emissivity' is 0.98, 'Distance Mode' is 'Self-Adaption', and 'Distance' is 2 meters. A 'Save' button is at the bottom.

The screenshot shows the 'Face Detection' configuration page. The 'Channel No.' is 'Camera 01'. 'Enable Face Detection' is checked. Under 'Overlay Information', 'Face Frame', 'Face Temperature', and 'Display Face Temperature Position' are checked. A video preview shows a person's face with a green bounding box and '33.1°C' displayed. 'Face Detection Parameters' include: 'Min. Pupil Distance' (83), 'Max. Pupil Distance' (694), 'Generation Speed' (5), 'Sensitivity' (5), 'Alarm When Temperature' (37°C), and 'Pre-Alarm Temperature' (36°C). A 'Save' button is at the bottom.

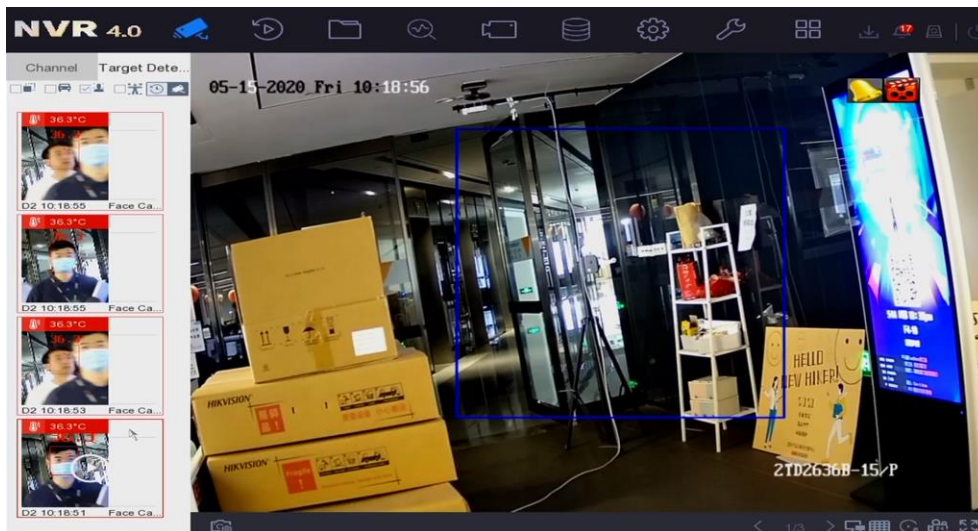
The screenshot shows the 'Linkage Method' configuration page. The 'Channel No.' is 'Camera 01'. Under 'Arming Schedule', 'Linkage Method' is selected. The following options are checked: 'Normal Linkage', 'Trigger Alarm Output', 'Trigger Recording', 'Notify Surveillance Center', 'A-1', and 'A2'. A 'Save' button is at the bottom.

2) Support uploading pictures of visible light and thermal imaging to the platform software.



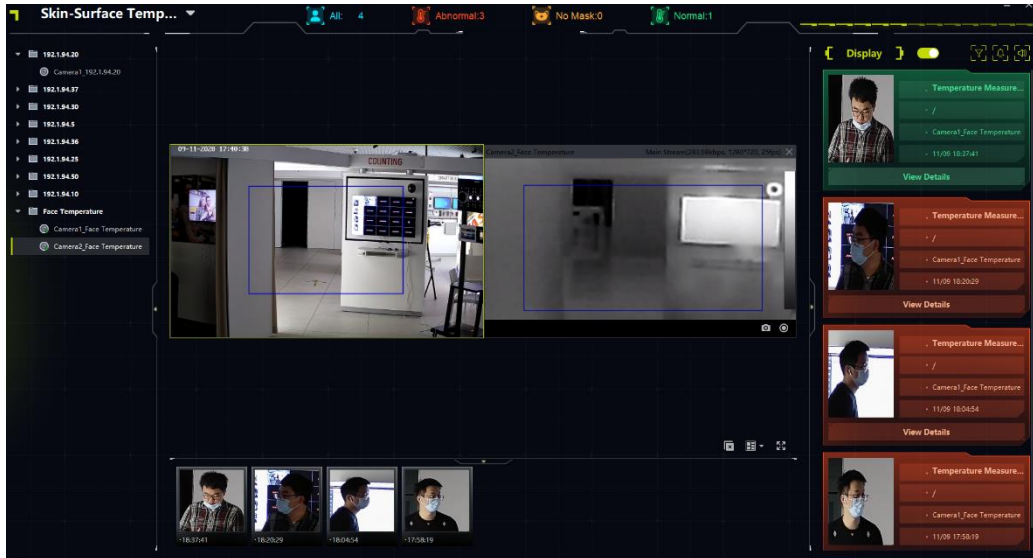
7. 【Support thermal camera face temperature alarm】

1) Support local target detection interface to display real time face temperature alarm. Abnormal temperature displays red background, normal temperature displays green background.

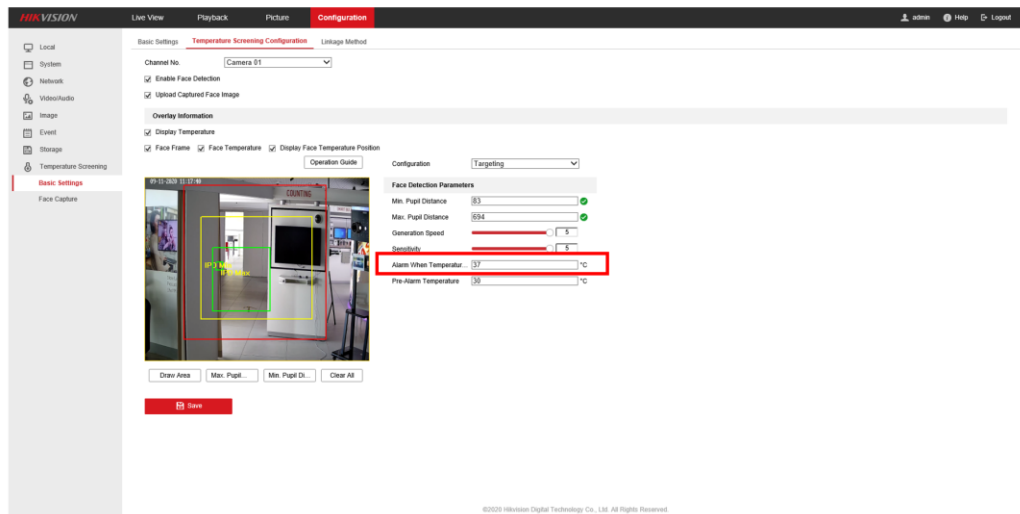


2) Support 4200 to display real time face temperature alarm. Abnormal temperature displays red background, normal temperature displays green background.

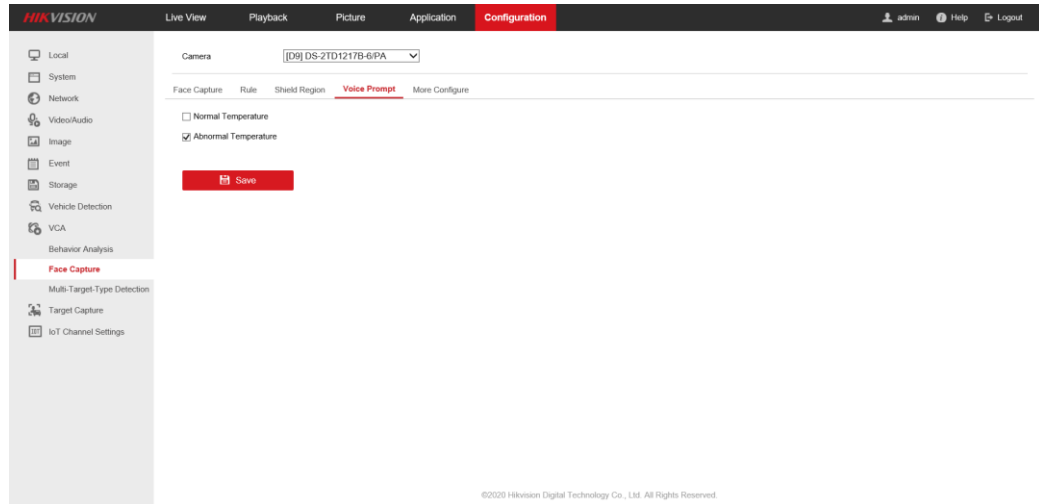
Please go to AI Dashboard -> Skin-Surface Temperature to detect the real time face temperature alarm.



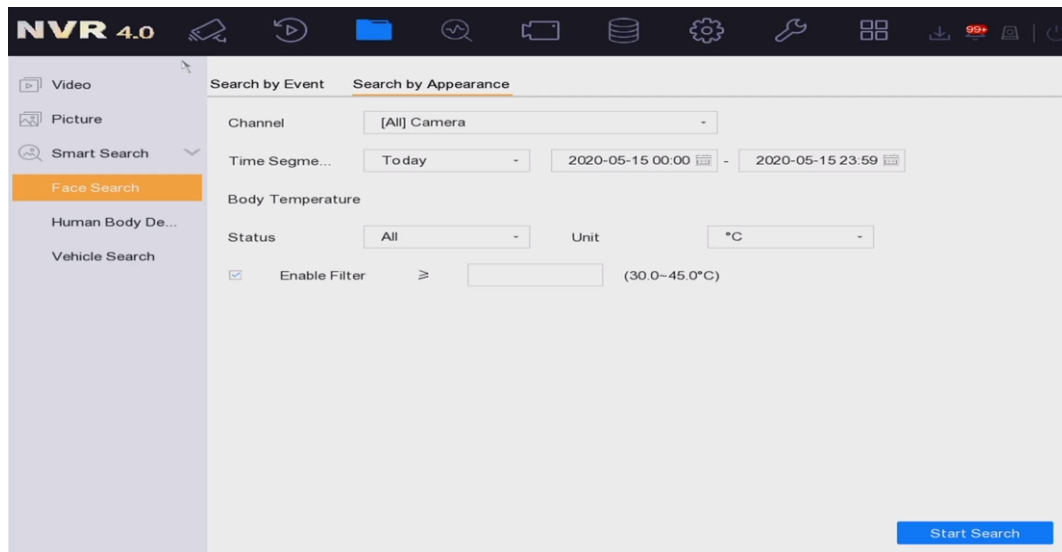
Reminder: you should set alarm parameter “Alarm When Temperature is Above” in the camera web to distinguish normal and abnormal temperature.



2) Support the voice announcement function of face temperature state linkage. NVR has two English pronunciations (HDMI output): abnormal temperature and normal temperature. Normal temperature is not linked by default, and abnormal temperature is linked by default.

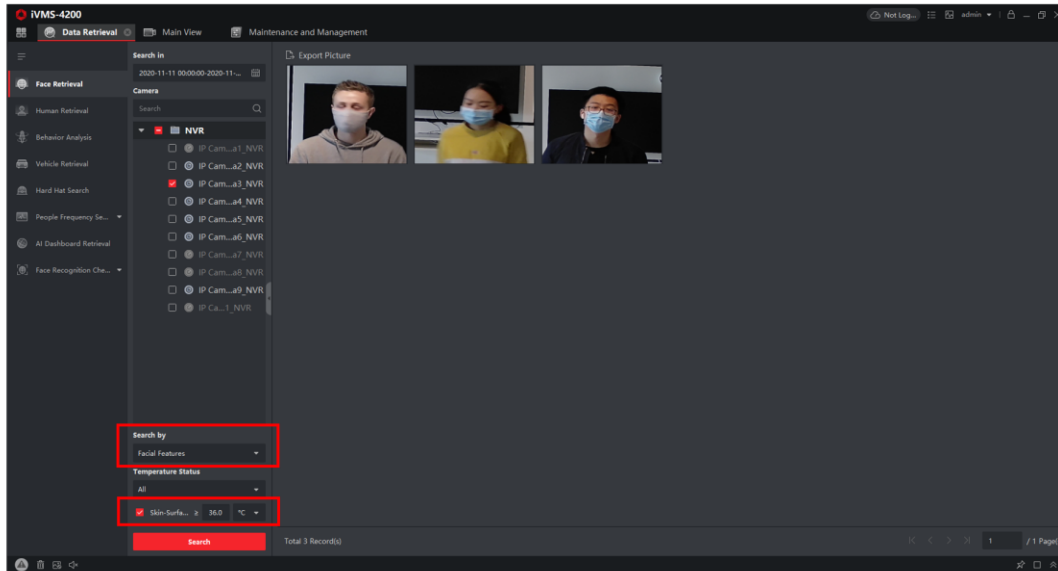


3) Support 4200 to search face pictures according to body temperature status and temperature range, and support to display search results in specified temperature units.

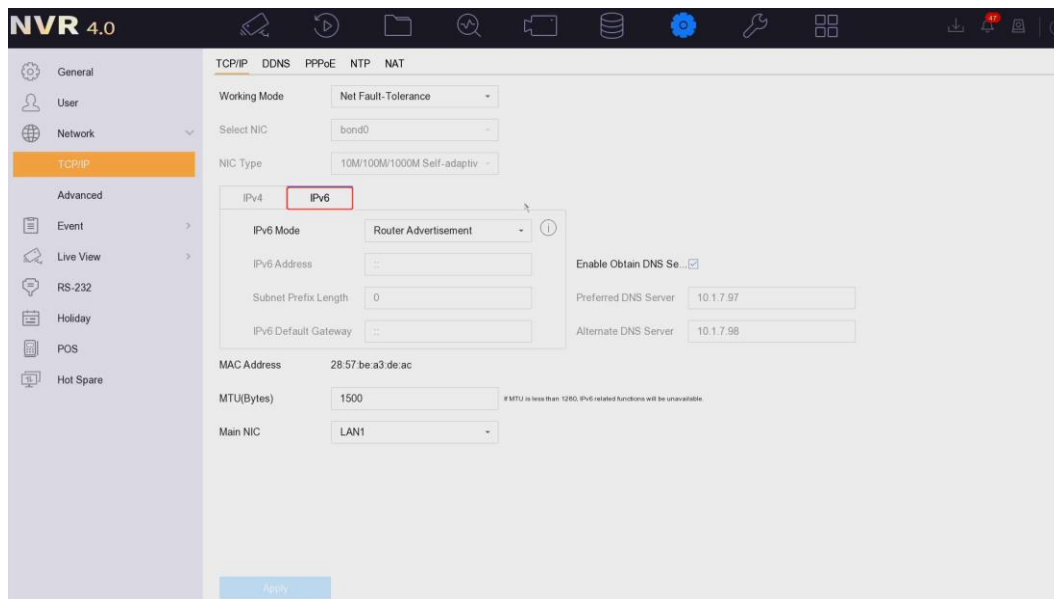


3) Support 4200 to search face pictures according to temperature range.

Reminder: please update the latest version (V.3.4) of 4200 to support this function and it is also recommended to update the latest version of the thermal camera.



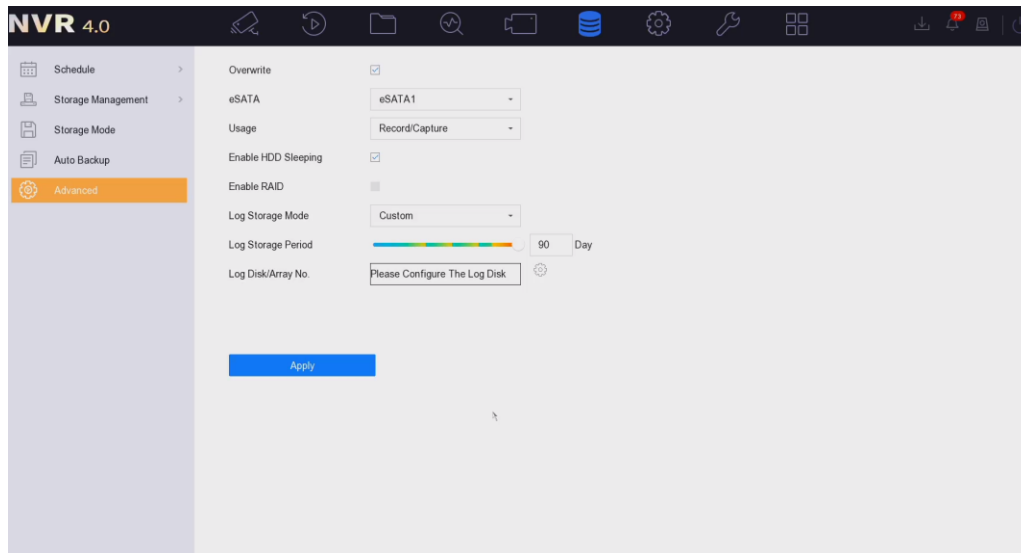
8. 【Support IPv6 network】



9. 【Increase log storage period】

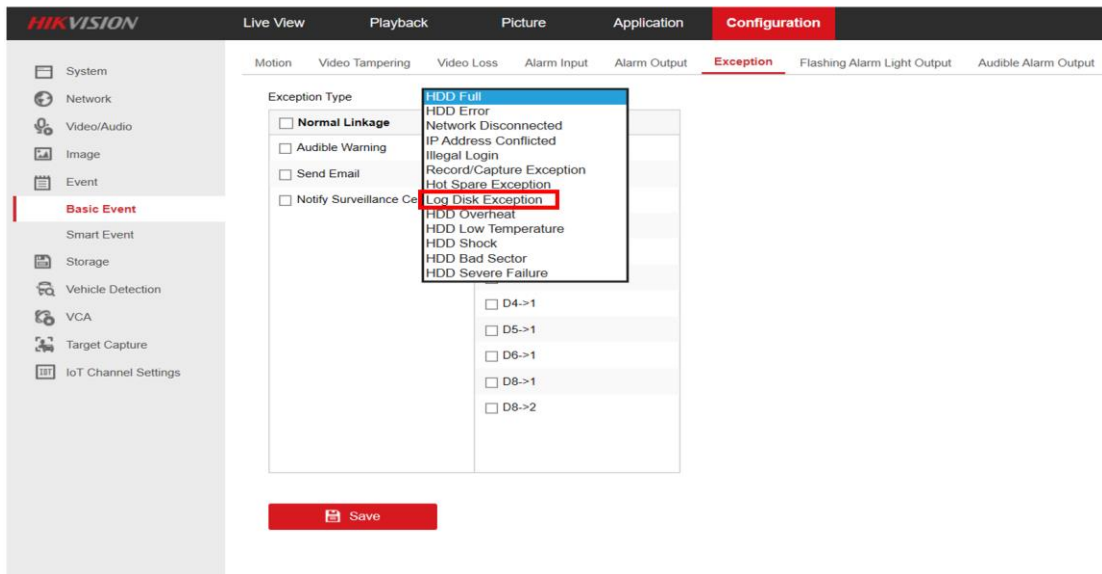
1) The previous firmware only provide a maximum 80M for log storage, while the new firmware designates one HDD as the log HDD to store logs, and add log HDD configuration and management.

2) Support to configure log storage period from 1 to 90 days.



Reminder: the designated HDD (for log storage) can still store normal recording, while the minimum space of log storage is 1GB.

3) After the HDD is used as the log HDD, the abnormality of the HDD, the full HDD, and the absence of the HDD will trigger the abnormal alarm of the log HDD (Log Disk Exception) .



Modified functions

1. 【Optimization of bandwidth performance】

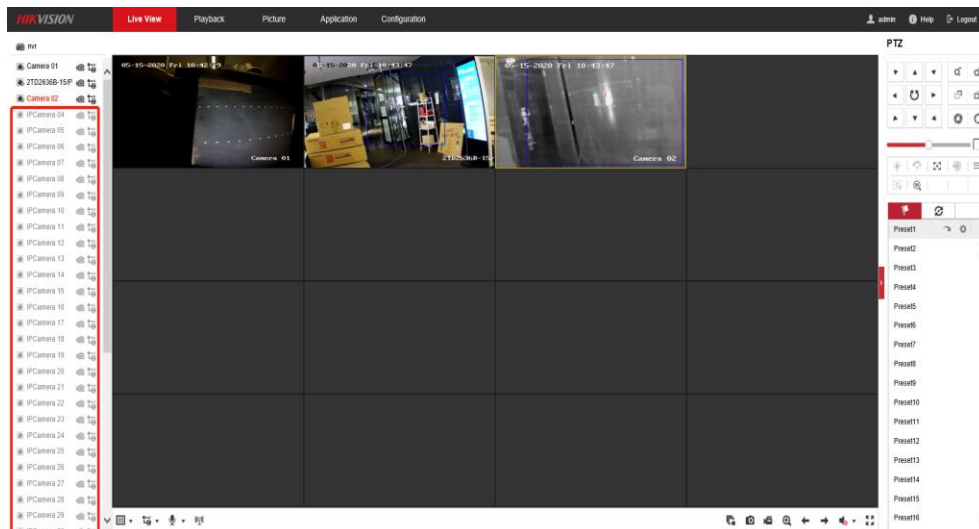
Improve the input / output bandwidth performance of the 96NI-I series to 320 / 256Mbps.

2. 【Optimization of search performance】

Optimize the search mechanism and shorten the search time. Improve the efficiency of search video, smart search, event video, pictures, IOT and logs in both NVR GUI and Web.

3. 【Optimization of WEB Live View interface】

The WEB Live view interface of the IE browser adds channels that are not online, which will show in gray.



Fixed issues

1. 【Fix the issue that the sub-stream cannot be accessed】

Fix the issue that the sub stream cannot be accessed when the network environment is poor.

2. 【Fix the issue that Hik-Connect cannot be connected】

Fix the issue that NVR cannot go online with Hik-Connect when the network environment is poor.



First Choice for Security Professionals

Related product list:

I series NVR	DS-9600NI-I16, DS-9600NI-I8 DS-7700NI-I4(/P), DS-7732NI-I4/24P DS-7700NI-I4(B)(/P), DS-7600NI-I2(/P)
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Customer Impact and Recommended Action

This new firmware upgrade is to improve product performance, and will take effect automatically after upgrading from previous versions. We'd like to inform you the above changes. Also, we are sorry for any possible inconvenience of use-habit changes caused by this action.

Note:

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