Network Video Recorder

Version: V4.40.500 build201020

Release Note

(2020-10-20)

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Firmware **Basic** **Information**	Firmware Version:	V4.40.500 build201020
	SDK Version:	V6.1.5.25_build20200811
	Play Library:	7.3.8.45
	Web component:	V4.0.1build201010
	IVMS-4200:	V3.3.2.2 build20200820

Reason of Upgrade

Add new features and optimize product performance.

New features

1. 【Double Verification】

1) If enabling Double Verification, non-admin users need secondary password authentication when local GUI playback, video export, remote video playback/download in web or IVMS4200.
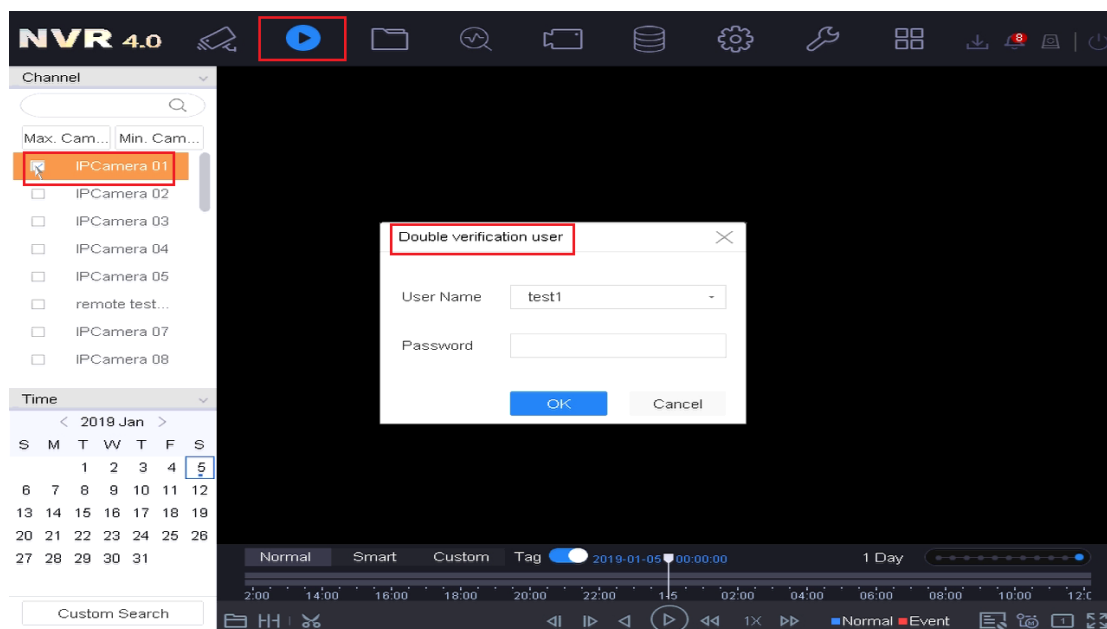

2) Admin users don't need Double Verification and only admin user can configure the function.

3) Double Verification can newly add up to 8 users. Double Verification users can only be used for secondary authenticate, but can't be used for logging in NVR.
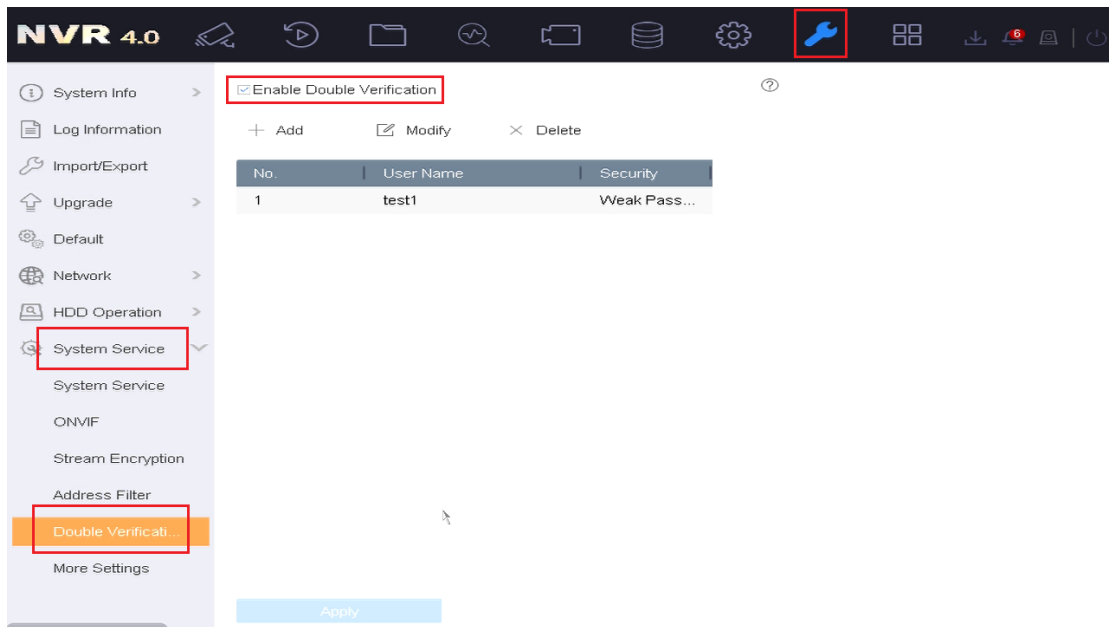
2. 【Hik-connect Download QR Code】

Hik-connect Download QR code is added in Platform Access interface of NVR local GUI.

![HIKVISION - First Choice for Security Professionals]
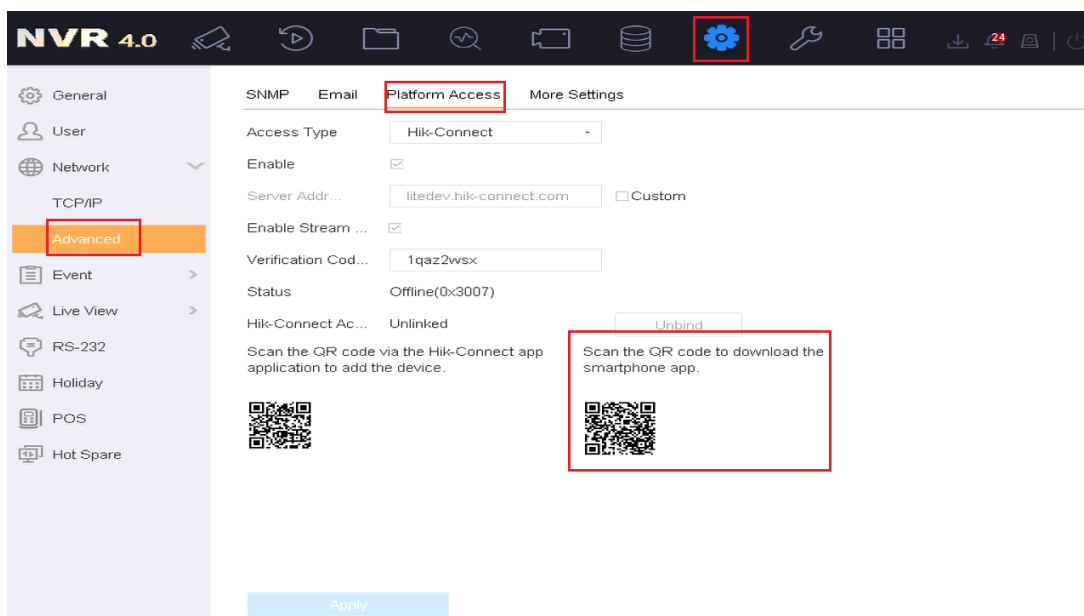
3. 【Main and Auxiliary Menu Switching】

4) Support non-homologous devices to support this function.

5) There is no resolution limit for the operation of primary and secondary ports, and they can be switched as long as they are supported.

6) Only the current port can operate PTZ after switching.
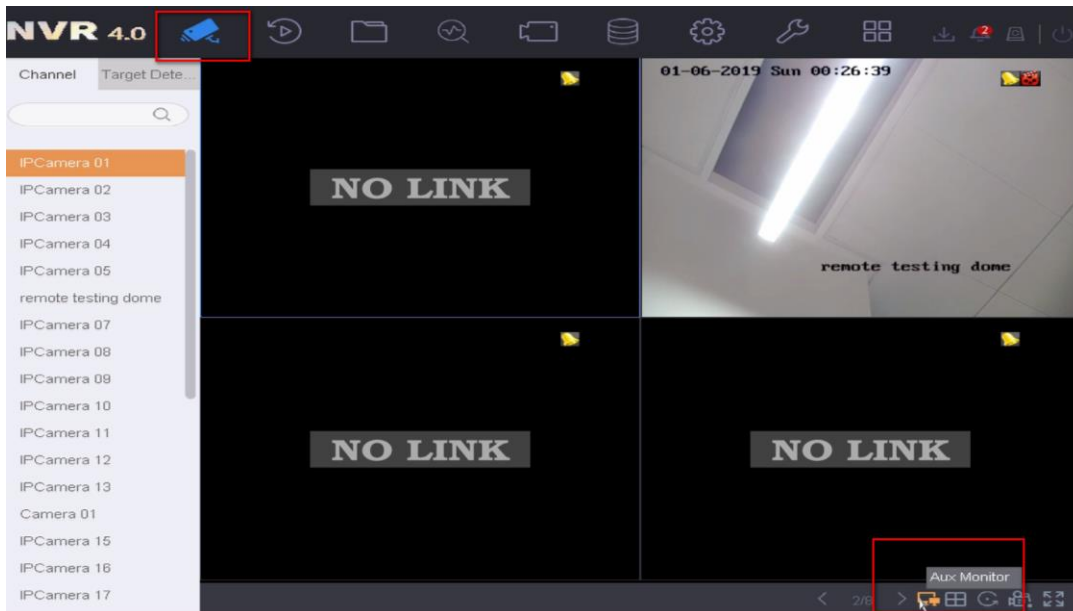
## 4. 【IP, MAC Address Black-and-white List Function】
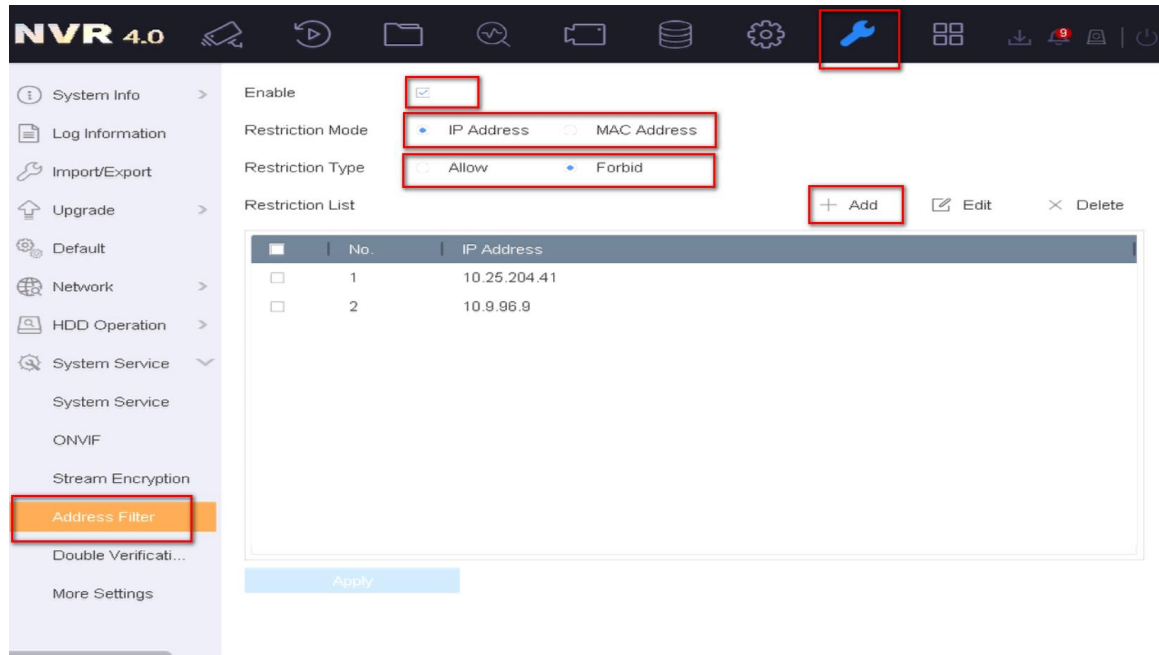
1) Local GUI and web can set blacklists and whitelists of IP and MAC.

2) Only one (IP or MAC) black-and-white list can be enabled.

3) MAC and IP address black-and-white lists can support 32 addresses separately.

4) The actual IP and MAC are acquired in the router with IP and MAC addresses, and the IP and MAC on the router side are acquired outside the router.

5) The IP and MAC black-and-white list addresses set can be modified and deleted.

5. 【Display corridor mode】

Display the channel live view of corridor mode in the local GUI without stretching.

6. 【EHOME 5.0 Protocol】

The device can be connected to the platform through E-home5.0 in LAN.
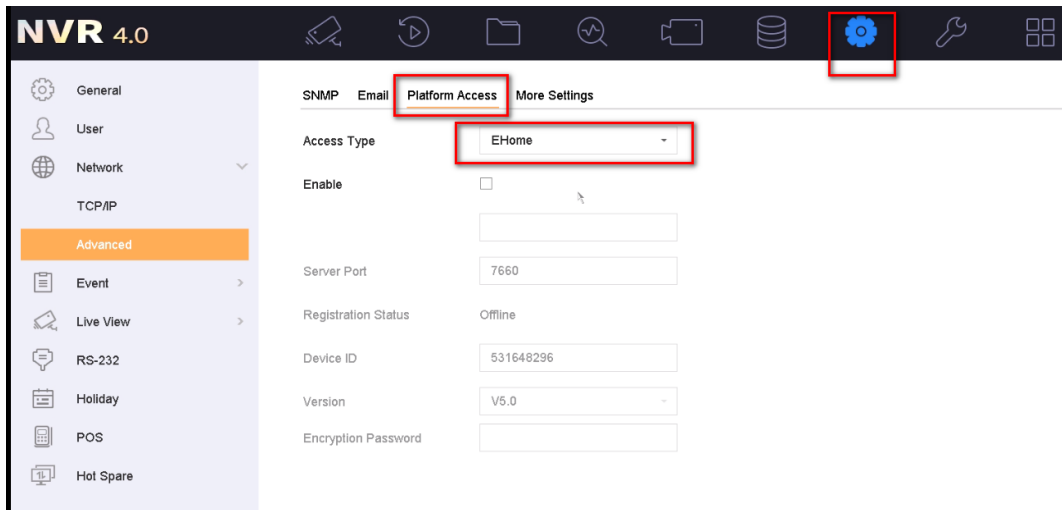
7.【Two-way Audio Function between NVR Channels And Hik-Connect】

1) It can be turned on and off on Hik-connect.

2) Only one channel is supported, and the channel must be in living view.

3) The version of Hik-Connect must be V3.7.0 or later.

8.【Thermal Camera Alarm Image Upload to Hik-Connect】

1) After the thermal camera reports the alarm to NVR, NVR synchronizes the alarm information to Hik-Connect.

2) The alarm picture is the thermal channel, not the visible light channel.

9.【Support vehicle attribute retrieval】

1) It is supported to export the tables with text from local.

2) Up to 10000 records can be exported locally, and more than 1W records will not be exported. Users can reset the retrieval time to export more records.

10. 【Support connect to up to 32MP camera】

1) Customer need to select the high-resolution mode before connecting the high-resolution camera.

2) At present, it supports the maximum 4-way access, which can only be added through channels 1 to 4

3) Support alarm information that come with high-resolution camera, such as behavior analysis.

11. 【Indonesian】

1) Indonesian language is supported in local GUI.

12. 【Password recovery by email】

1) In the process of device activation, the administrator user can set the reserved email address for password reset. This function is checked by default, and the user can cancel the check.

2) Users can modify the reserved mailbox of reset password in user management page.

3) Add "reserved email" option in forget password page. After entering the page, the user can retrieve the password in two ways:

  1. App code scanning

  Prompt the customer to scan the QR code through the HC app (if the customer does not have the app, prompt the client to scan the code to download). After scanning the code, the app will automatically send the QR code information to the service email, and the verification code can be obtained in the reserved email to reset the password.

  2. QR code export

Users export the QR code and send the QR code to the service email. The user can get the verification code in the reserved email to reset the password.

13. 【Third-party IP detector integration】

1) Support GJD, OPTEX and Lumint alarm equipment access.

2) Support OSD display content selection and rule configuration.

3) Support alarm event receiving and parsing, all support parsing and logging.

4) The event linkage unit is defined as an event, and linkage configuration is made for the event.

5) When uploading the alarm center, upload the event type and event parameters.

6) The alarm linkage supports the OSD display of IOT, and the OSD display channel is consistent with the video linkage channel.

7) It is necessary to set the port for alarm host to send alarm to NVR on the alarm device. The default is 30999, which can be modified on the alarm device.
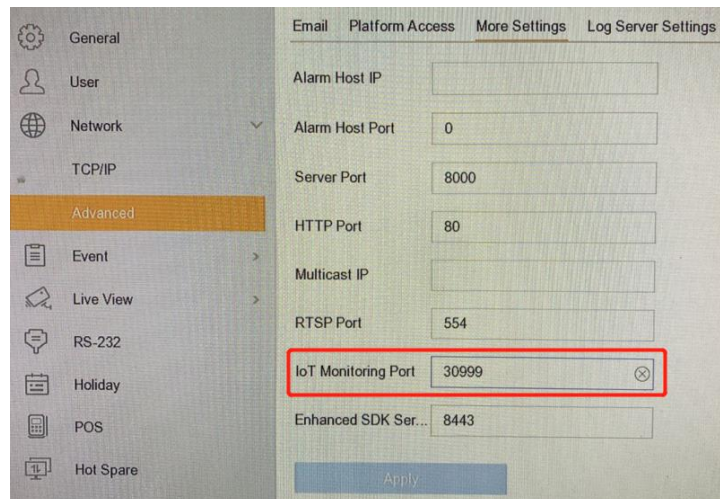
14. 【Support Axiom】

1) The added parameters include IP, port, user name, password and protocol (TCP and UDP). Search, quick addition and activation are not supported

2) The received alarm information analysis includes: which alarm host reports, defense zone number, defense zone name and defense zone attribute. The primary and sub code streams support overlay OSD, and the event name includes: defense zone number zone name defense zone attribute

3) The alarm host itself also contains host events, and the event names of host events are displayed by host alarm events

4) The result of the query result defense area event subtype includes zone number, zone name and zone attribute (CID)

5) The query result event types include device name and zone attribute (CID)

15. 【Support Western Digital encryption disk】

Support RAID 0, 1, 5, 6, single disk and eSATA access with encryption disk

16. 【Repair database on Web Client】

1) Add two ways to repair database on the Web client: repair video and repair all the data. Repairing video takes less time, about half an hour. Repairing all data will repair videos, pictures and events. It takes a long time, depending on the size and number of HDD, and usually takes several hours.
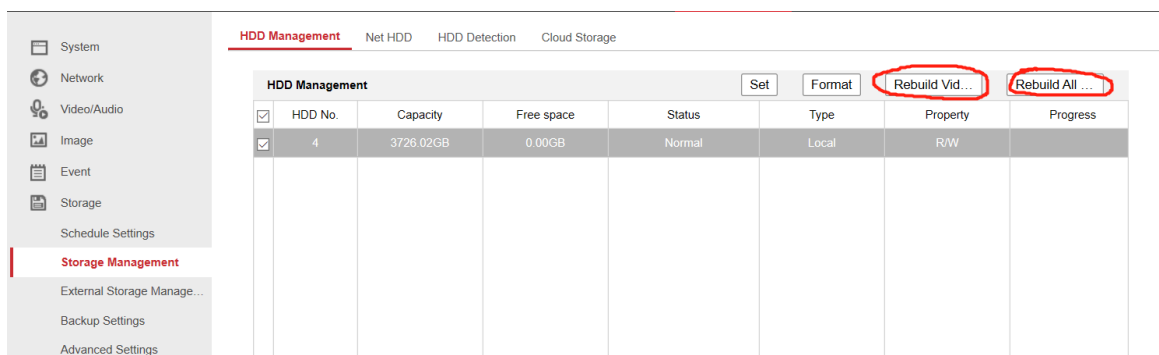
2) During the repair process, the normal storage of videos, events and pictures will not be affected.

3) Record the start log at the beginning of the repair and the end log at the end. The log is Operation -- HDD Detect.

17. 【Support 802.1x】
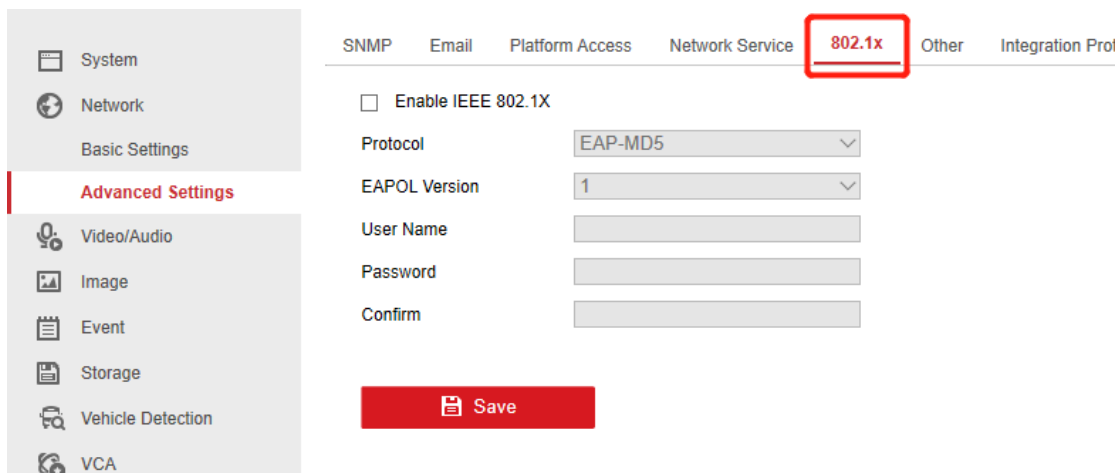
1) Some switches require 802.1x protocol authentication.

2) Obtain the corresponding supported protocols, user names, and passwords from the switch.

3) Only remote WEB support to configure this function.

18. 【Support EZVIZ online upgrade】

1) If there is no client check, the NVR detects whether there is a new upgrade package every 24 hours. The detection start time is the time when the device registered fluorite successfully.

2) Upgrade package download supports breakpoint continuation.

3) Users can manually trigger the upgrade in HC client. If there is a new version, there will be a red dot in HC.

**19.** 【Support thermal camera temperature measurement alarm】
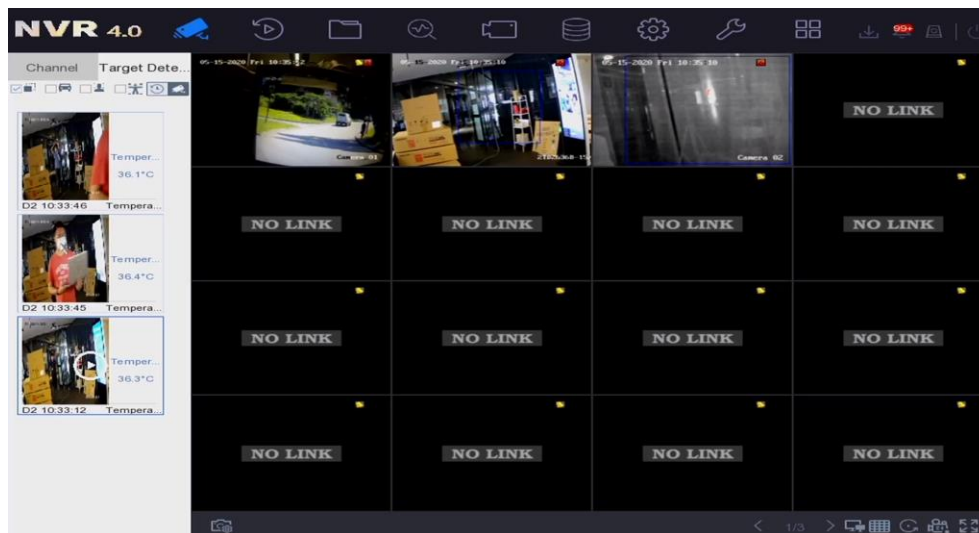
1) Support local target detection interface and 4200 to display real time temperature measurement alarm.

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

20. 【Support thermal camera face temperature alarm】
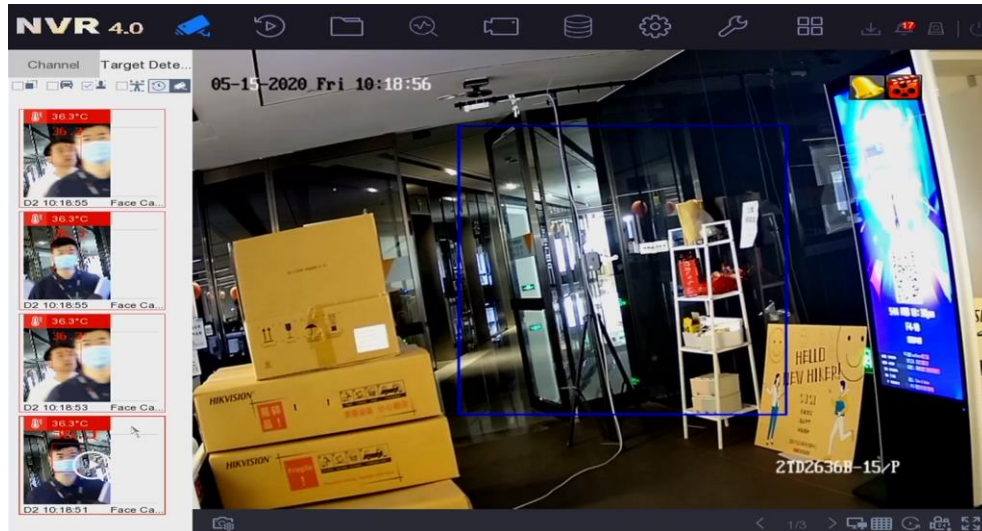
1) Support local target detection interface and 4200 to display real time face temperature alarm, abnormal temperature display red background, normal temperature display green background.

2) Support the voice announcement function of face temperature state linkage. NVR has two English pronunciations: abnormal temperature and normal temperature. Normal temperature is not linked by default, and abnormal temperature is linked by default.
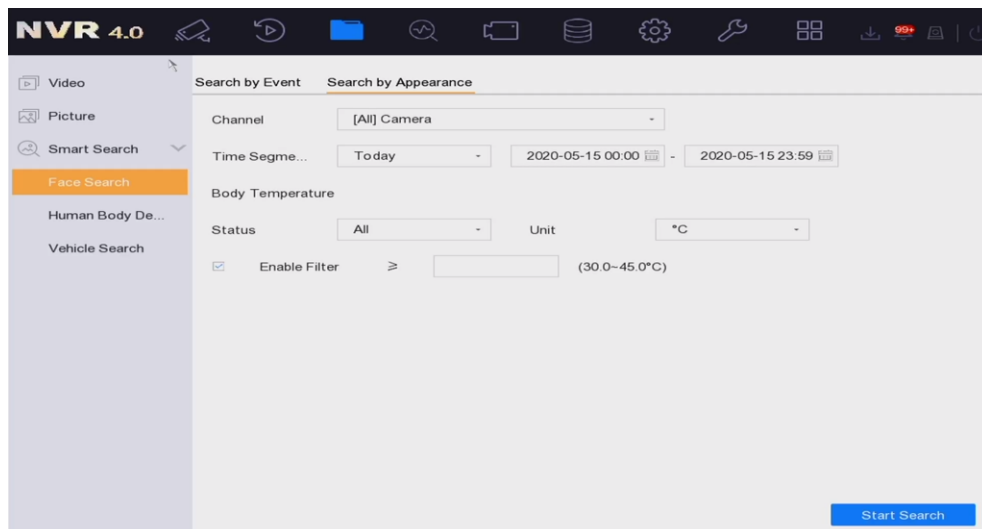
3) Support local and 4200 to search face pictures according to body temperature status and temperature range, and support to display search results in specified temperature units.

Modified functions

1. 【Optimize Keyboard Access】

1) For DS-1005K keyboard, after stopping patrol / starting patrol, the patrol icon will change and the tip text swill change.
2) DS-1005K keyboard supports selecting the playback date for playback.
3) The target detection bar under the preview interface can be operated by keyboard.
4) Real-time playback can control the positioning, pause, start and exit functions of time points.

2. 【Optimize Thermal Camera Access】

1) Support VCA behavior analysis configuration on NVR.
2) Support temperature measurement and VCA alarm.
3) Support real-time temperature measurement guide.

3. 【Virtual Host】

1) All models of I series including POE and non-POE NVR, can enable virtual host function, and generate connecting links.

2) After opening the virtual host, both POE and non-POE NVR can generate jump links for POE and non-POE channels.

3) Support skipping the website of third-party camera.

4. 【Array & group mode are mutually exclusive】

1) It can be detected when NVR is booting if Array and group mode coexist. If coexist, the local GUI will prompt "Quota mode provides higher data safety, and is recommended over array mode for HDD group". Select "Yes" and then the NVR will restart.

2) Array mode: It doesn't support Group mode when enabling Array. Group mode button is putting ash in local GUI, and there is no Group mode option in drop-down box in 4200.

3) Group mode: It doesn't support enabling Array when selecting Group mode. Enable RAID button is ash and cannot be selected, and array configuration page is hidden in 4200.
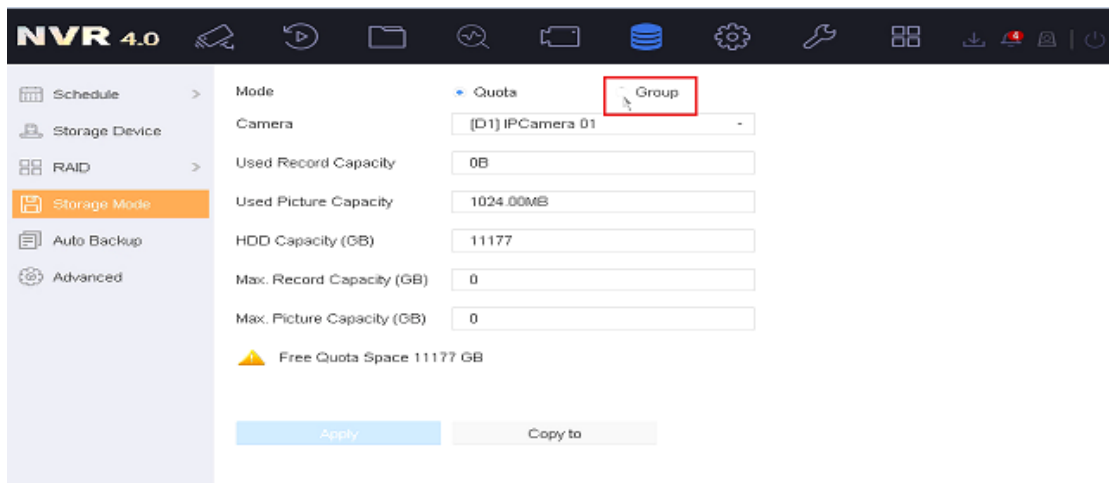
5. 【**Optimize Search Speed of Hik–Connect Playback**】

The hik-connects receives the alarm, and the alarm video can be played back after 5-15s.

6. 【**Optimize Onvif Access**】

1) Optimize the bit stream access logic.

2) Support multi-channel camera access.

3) Pull-Point Notification is supported by default, and Base Notification is used if the device does not support Pull-Point Notification.

Related product list:

Super I series NVR	DS-96000NI-I16, DS-96000NI-I24

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:

- Hikvision has all rights to alter, modify and cancel this notice.

- Hikvision doesn't give any guarantee for old models' stock.