![HIKVISION - First Choice for Security Professionals]

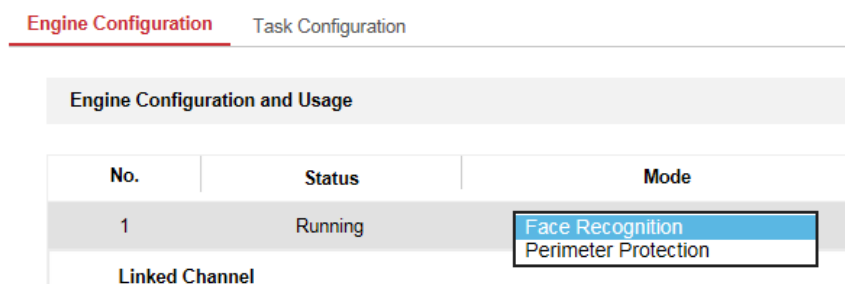# 2ⁿᵈ generation of DeepinMind NVR V4.1.61 Build190523
Release Notes
(2019-06-24)

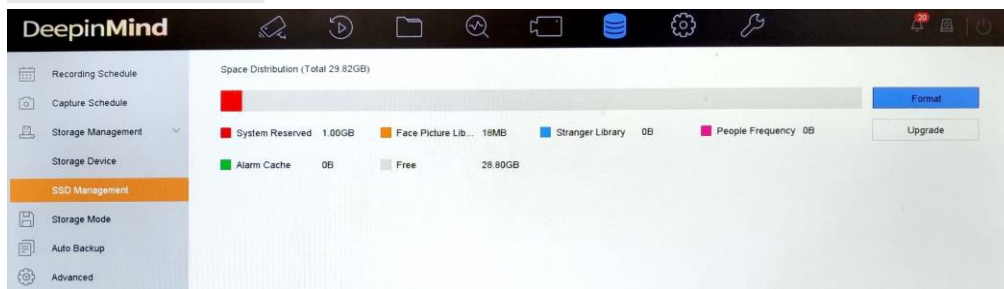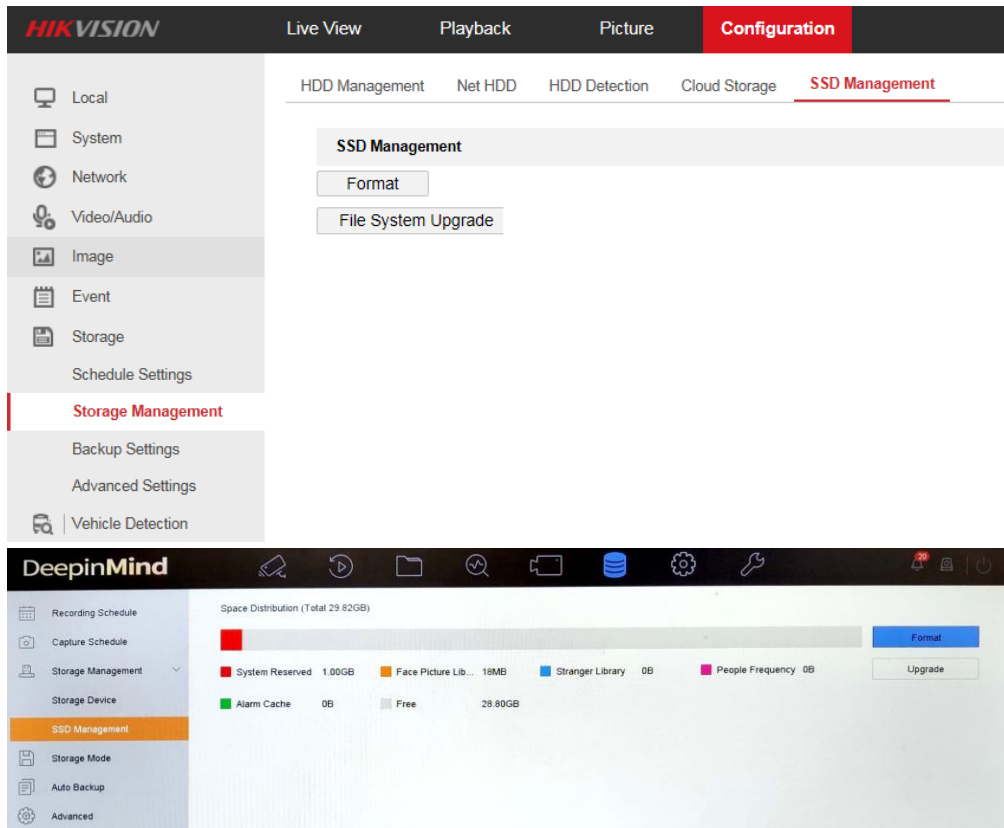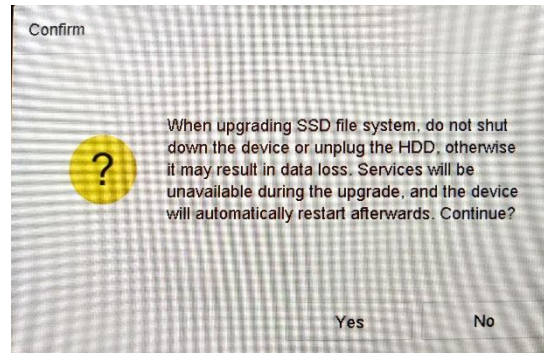|		
Firmware Basic Information	Firmware Version:	V4.1.61Build190523
	SDK Version:	V6.0.2.10 build20190117
	Play Library (PlayCtrl.dll)	6.0.0.5/7.3.3.61
	Web version	V4.0.1 build 190513
	Client version	V2.6.18.6 build20190510

Reason of Upgrade

Release 2ⁿᵈ generation of DeepinMind NVR new models: iDS-7700NXI-I4(/16P)/X(B)、iDS-9600NXI-I8(I16)/X(B)

to enhance product equality and meet customers' requirements. Add new features and optimize product

performance.

New features

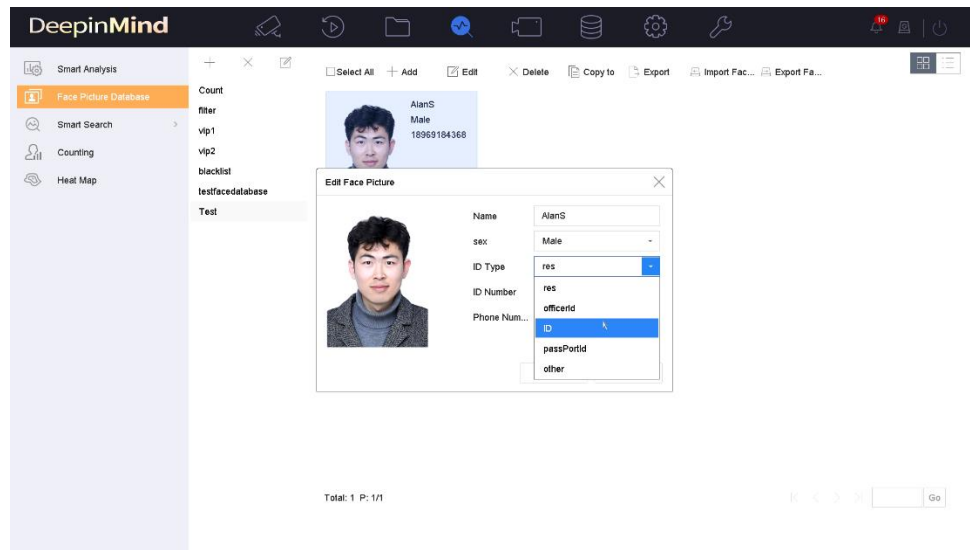1. Newly release models: iDS-7700NXI-I4(/16P)/X(B)、iDS-9600NXI-I8(I16)/X(B).

2. Optimize face detection and facial recognition algorithm.

3. Update SSD file system.

1) SSD in new device with V4.1.61 will be ext4 format.

2) Old version NVR upgrade to V4.1.61, the NVR will prompt user to upgrade SSD file system. SSD

file system upgrade need user confirm. User can upgrade it later via local GUI or web site.

3) When upgrade the SSD file system, there should be at least one HDD drive is available.

4) New add SSD format button and space distribution.

4. Optimize local GUI face picture database setting.

1) Support face library display as a list.

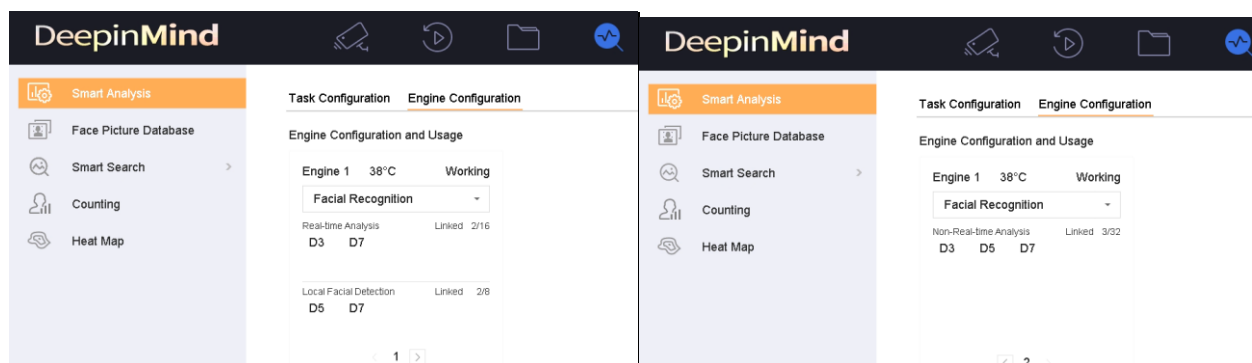2) Support edit gender and ID number.

3) When click select all, it will select all items at current page.

5. Engine configuration. [All below changes only affect local GUI]

1) Support display engine temperature.

2) Engine usage displayed according to the specific function.

Facial recognition: Sort by real-time analysis, local detection, non-real-time analysis.
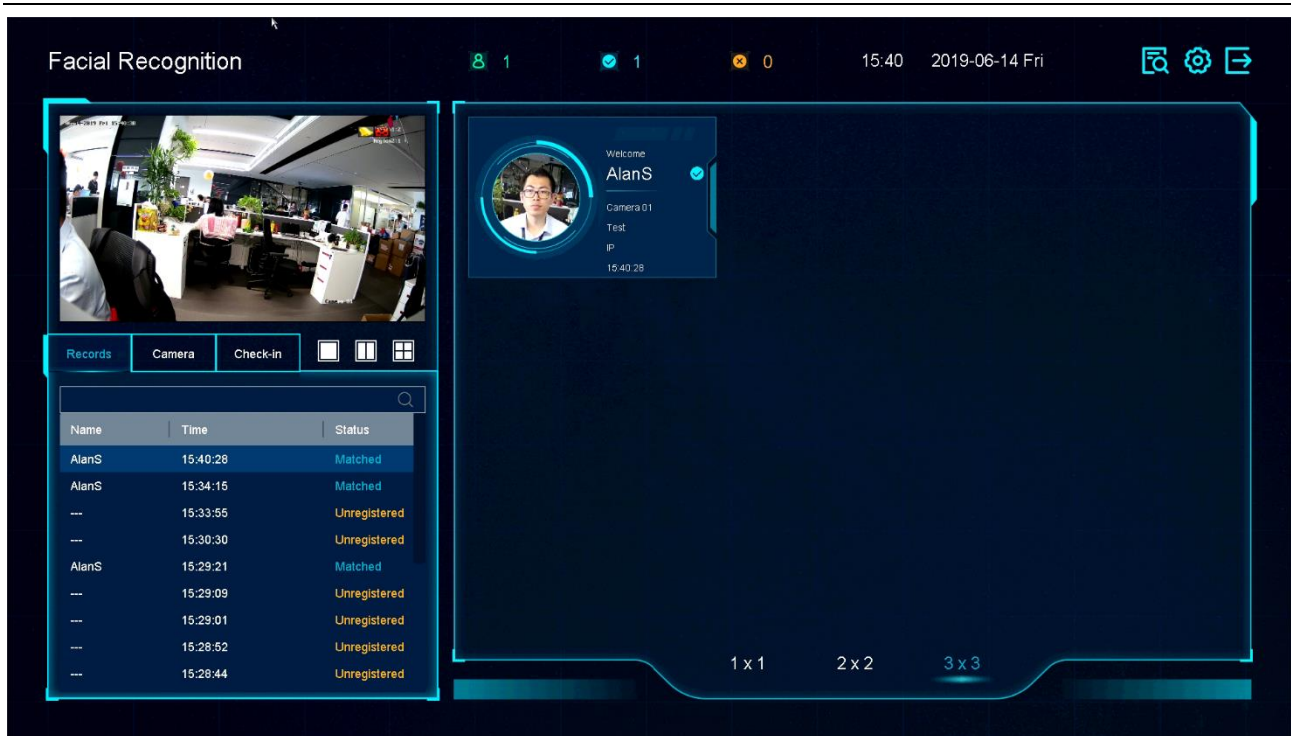

6. Optimize facial recognition module.

1) New add real time alarm count.

2) Captured face will disappear after 10 seconds.

3)   Face comparison success picture will show the first customize Tag.

4)   Match status display with different color.

7. Optimize face comparison function.

1) Notify surveillance center is enabled as default for face comparison success function.

2) Face grading is enabled as default.

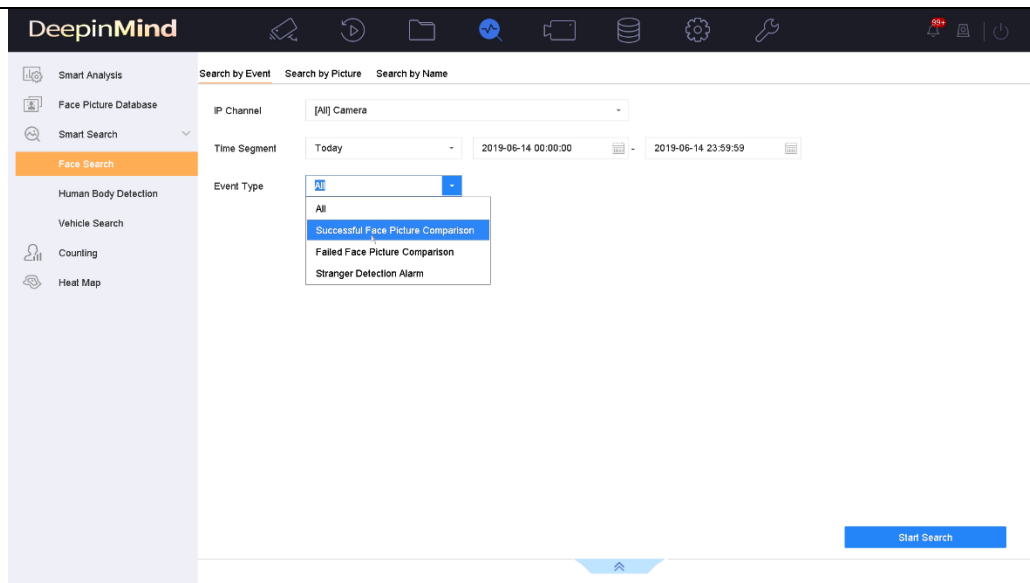8. Optimize face capture setting for face capture camera.

1) Support setting linkage method for face capture function;

2) Not support configure advanced face capture parameters.

9. Optimize face search function.

1) Event type add stranger detection alarm.

2) Optimize search result when choose type as ALL.

10. Check-in report add **Attendance Count**, **Unattendance Count**, and **Attendance Rate**.

Attendance rate = attendance count/ (attendance count + unattendance count) *100%

	A	B	C	D	E
	Index	Name	Attendance Count	Unattendance Count	Attendance Rate
1	1	wy	0	14	0%
2	2	AlanS	1	13	7%

11. Attendance report add **Normal Days**, **Late Days**, **Early Days**, **Absent Days**, and **Abnormal Rate**.

Abnormal rate = (Late days + Early days + Absent days) / (Normal days + Late days + Early days + Absent days) * 100%
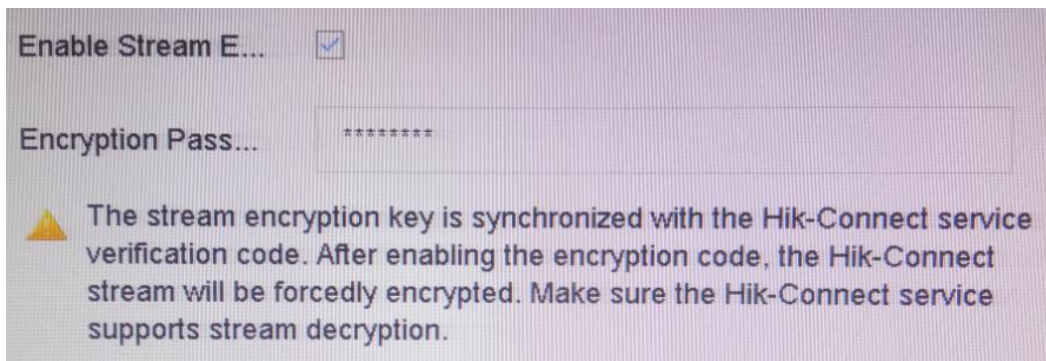
	A	B	C	D	E	F	G
	Index	Name	Normal Days	Late Days	Early Days	Absent Days	Abnormal rate
1	1	wy	0	0	0	10	100%
2	2	AlanS	0	2	0	8	100%

12. The Onvif protocol supports h.265 video stream access, and encoding parameter configuration.

13. [Stream encryption]

(1) Once stream encryption is enabled, the output video stream will be encrypted by AES.

(2) The key remains the same as the HC encryption key, so one of them is modified and the other one is modified synchronously.

(3) Up to 16 channels encryption is supported.
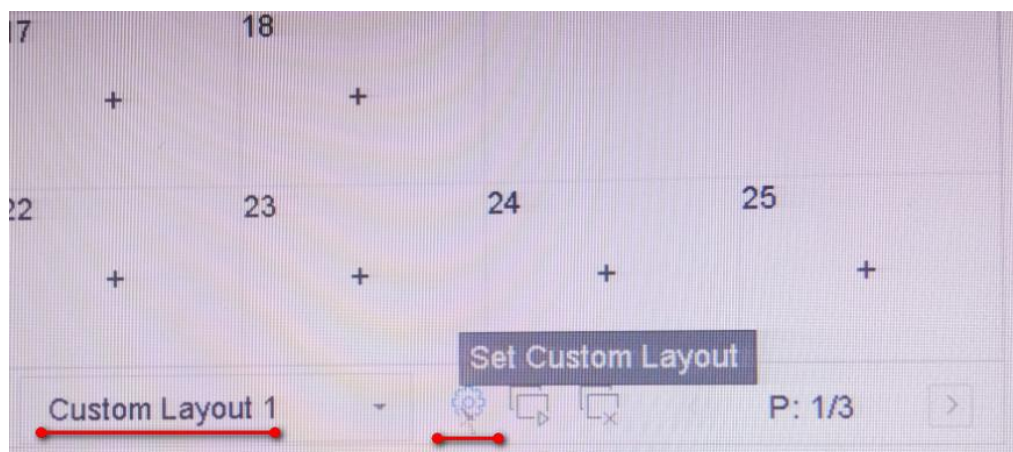
(4) Only support H.264, H.264+, H.265 and H.265+.

System – System service – Stream Encryption

Enable Stream E... ☑

Encryption Pass... ********

⚠ The stream encryption key is synchronized with the Hik-Connect service verification code. After enabling the encryption code, the Hik-Connect stream will be forcedly encrypted. Make sure the Hik-Connect service supports stream decryption.
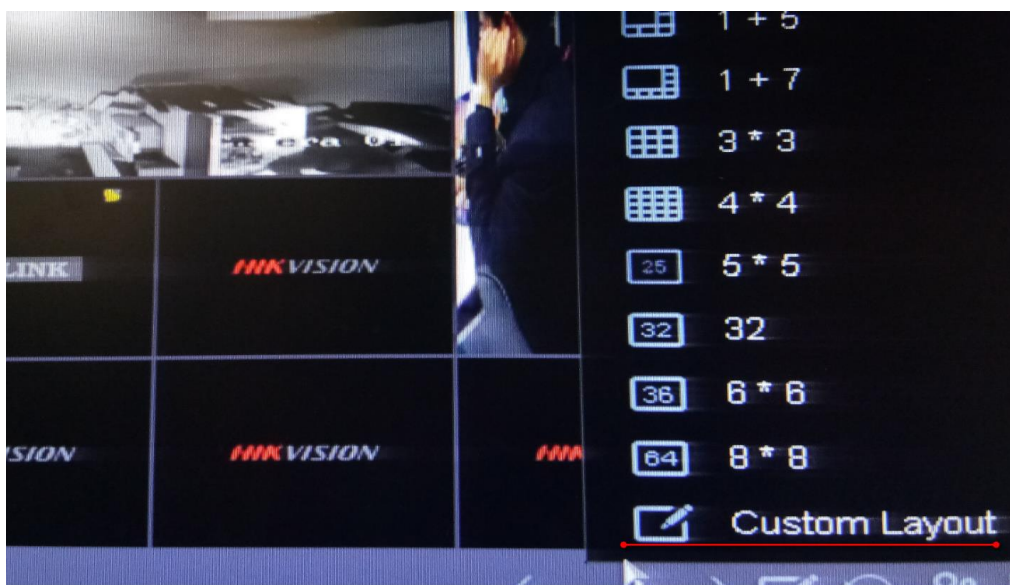
14. [Custom split screen]

Add custom mode in video split screen configuration interface, as shown in the figure below.

System – Live View – View

Live View – Channel

15. [Support non-plug-in browsers]

(1) Support non-plug-in browser Chrome and Firefox.

(2) The maximum capability of decoding is 1080P, so when the resolution of video is larger than

1080P, NVR transcodes it to 1080P.

(3) Only H.264, H.264+, H.265, H.265+ encoding types are supported.

(4) Two-way audio function is not supported.

16.[Thermal]

(1) Support thermal camera alarm linkage configuration in Web (only support in 4200 clients before).

(2) Support saving temperature data in NVR and displaying the data on 4200 clients.

(3) The unsupported alarm types will not be displayed in the NVR local UI.

17.[Keyboard]

(1) PTZ supports oblique control over the keyboard.

(2) Reduce the sensitivity of the rocker control cursor.

(3) Support video playback through selecting time on keyboard.

18.[Hik-Connect]

(1) Support zoom and preset operation.

(2) The ability of capture picture increases to 4MP for K series and 8MP for I series.

(3) Support uploading alarm image of smart stream in real time.

(4) Two-way audio default interface is VGA.

19.[LPR]

(1) Add three new countries for license plate search, which are USA, Canada and Australia.
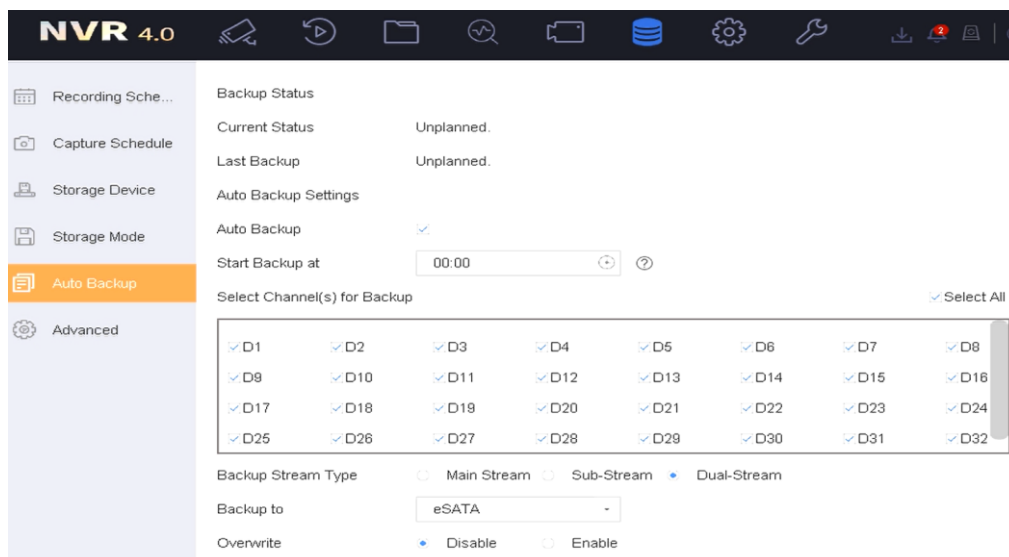
19.[eSATA automatic backup]

1) Local GUI, web, 4200 all support this function.

2) Automatic backup can be started at a specified time to back up the video of the last 24 hours. If the backup fails on that day, the video of the last 48 hours will be backed up the next day.
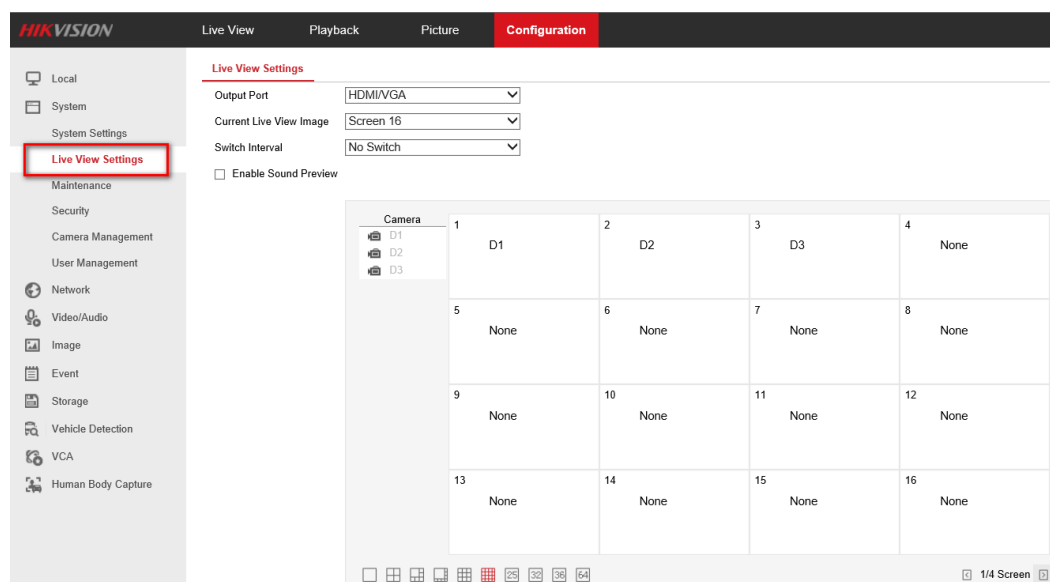
3) Different channels and different video stream types (main stream, sub stream, dual stream) can be selected for backup.

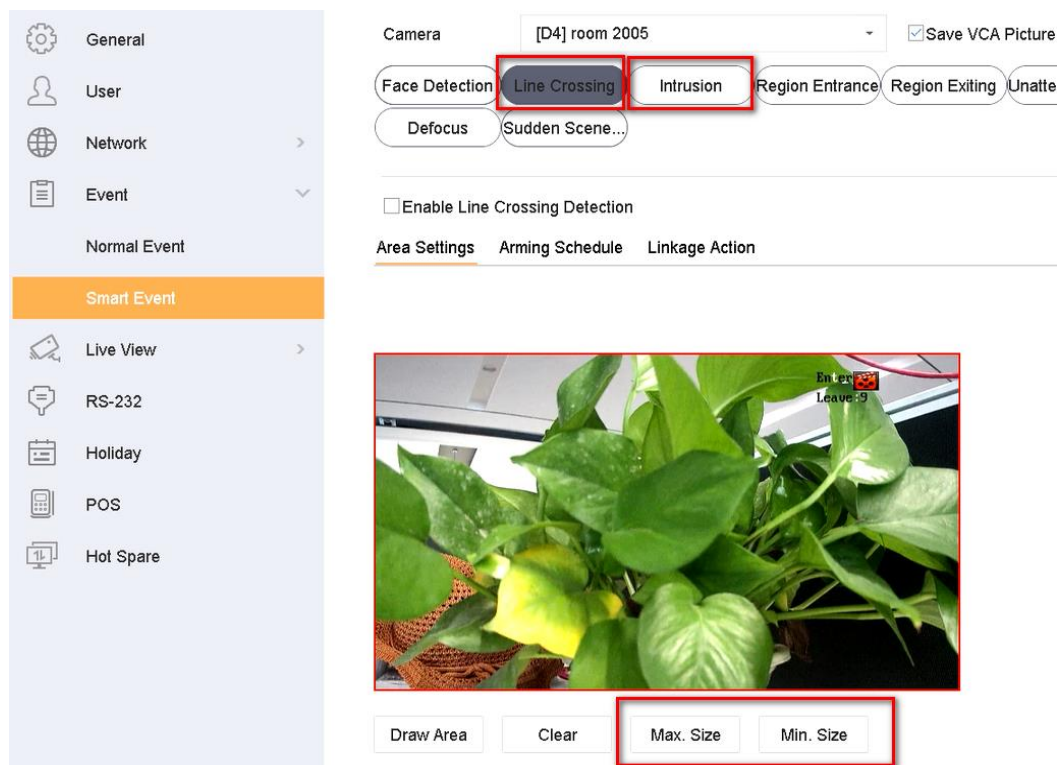4) There is a status display during the backup process.

20. [Local live view output can be configured remotely]

1) Support configuring live view mode of different output ports on the web.

2) The Custom Layout just can be obtained, but can't be configured on the web.

3) Support polling function configuration. Time isntervals: no switch, 5 seconds, 10 seconds, 20 seconds, 30 seconds, 60 seconds, 120 seconds, 300 seconds.
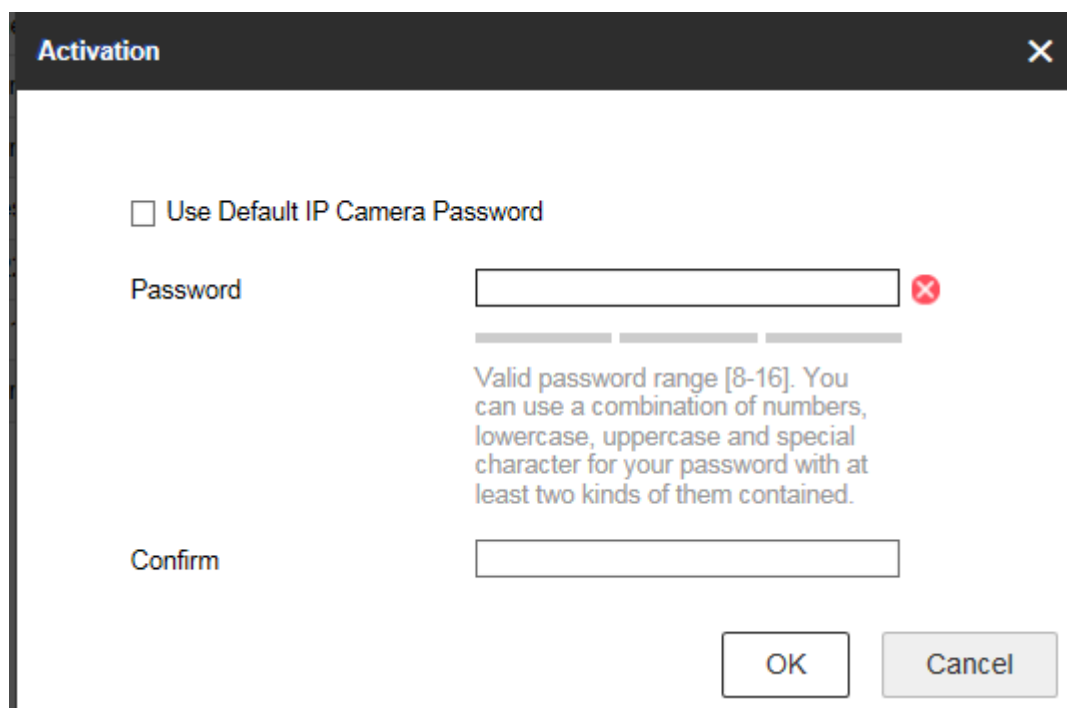

21.[Support setting object sizes for line-crossing and Intrusion detection]

1) Support setting object sizes for line-crossing and Intrusion detection in web or local GUI of NVR.

2) The IP camera should support smart 2.0.
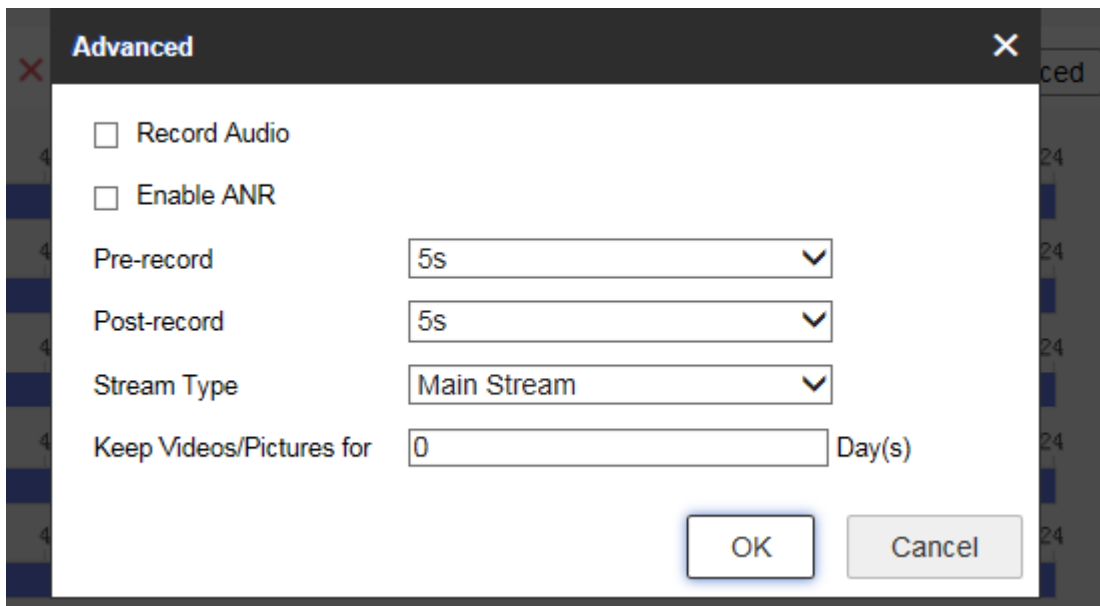
22. [IP channel Access]

1). When activate IP camera via local GUI, 4200 or web, support define camera password.

23. Add playback function at alarm list.

24. All channels support custom protocol.

25. Support set Videos and pictures storage expiration time. The default is no limit.

Related product list:

2nd generation of DeepinMind NVR	iDS-9600NXI-I8/8F(B)
	iDS-9600NXI-I8/16S(B)
	iDS-7700NXI-I4(/16P)/16S(B)
	iDS-6708NXI-I/8F(B)
	iDS-6716NXI-I/16S(B)

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.

For questions or concerns, please contact our local technical support team.

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