



**NVR5XXX-4KS2\_V4.000.0000001.3**

## Release Notes

**ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.**

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# Release Notes

## 1.1 Overview

Item	Description
Product model	NVR5XXX-4KS2 Series
Version	V4.000.0000001.3,
Software package information	DH_NVR5XXX-4KS2_MulitLang_V4.000.0000001.3.R.20191129.zip
Onvif Version	2.4.1
OS requirement	None
Release date	11/29/2019

## 1.2 New Features

Feature	Description
SMD function	<ul style="list-style-type: none"><li>① Support configuring SMD functions on IP cameras, such as enable switch, sensitivity and effective target.</li><li>② Support SMD alarm event, reusing MD alarm configuration.</li><li>③ Support filtered query and playback for human and vehicle.</li><li>④ Support displaying SMD rectangle on human and vehicle in live view.</li><li>⑤ Support displaying SMD rectangle on human and vehicle in playback.</li><li>⑥ Search and export SMD events.</li><li>⑦ Modified SMD playback start point to start from 10s ahead of the recorded video.</li></ul>
Web browse optimization	<ul style="list-style-type: none"><li>① On the basis of single NIC and PoE channel jump, dual NIC network segment crossing jump is added for the web.</li><li>② For safety concerns, an enable switch is added for virtual machine. The switch is enabled by default, and the jump to the web will fail if it is disabled.</li></ul>
Thermal events optimization	<ul style="list-style-type: none"><li>① Enable/disable thermal events, such as fire, calling, and smoking.</li><li>② Recorded video can be linked in logs.</li><li>③ Prompt can be linked when thermal event is detected.</li><li>④ Siren and light alarm can be linked when thermal event is detected.</li></ul>
Stereo behavior analysis	<ul style="list-style-type: none"><li>① Added stereo behavior analysis into Smart Plan.</li><li>② Support configurations including rules and linkage for stereo behavior analysis function.</li><li>③ Stereo behavior analysis function includes People Approach Detection, Fall Detection, Violence Detection, People No. Exception Detection, People Stranding Detection.</li><li>④ Search, play back, export, and lock stereo behavior analysis events.</li><li>⑤ Support linkage such as alarm out, record, PTZ operations, and logs.</li></ul>

<b>Safe login certification</b>	<p>① Optimize network security and support login authentication.</p> <p>② Provides safe mode and compatibility mode. It is safe mode by default for the sake of device security.</p> <p>③ It is recommended to use safe mode. When compatibility mode is selected, the system will prompt to user for reminding network risk.</p>
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## 1.3 Fixed Bugs

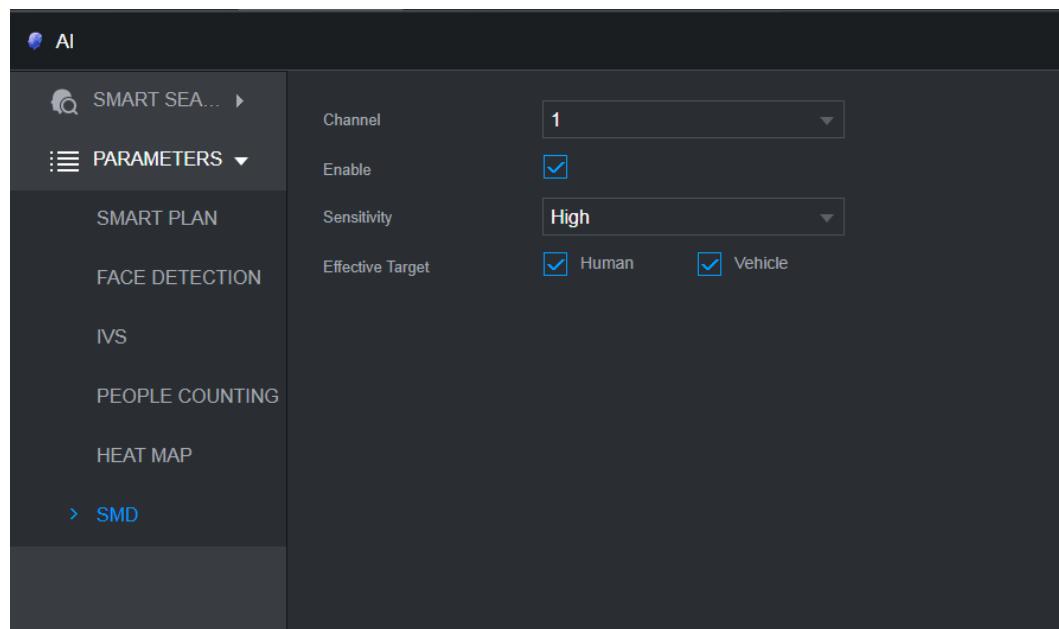
The fixed bugs are included in the chapter 1.2 New Features.

## 1.4 Instructions for New Features

### 1.4.1. SMD Function

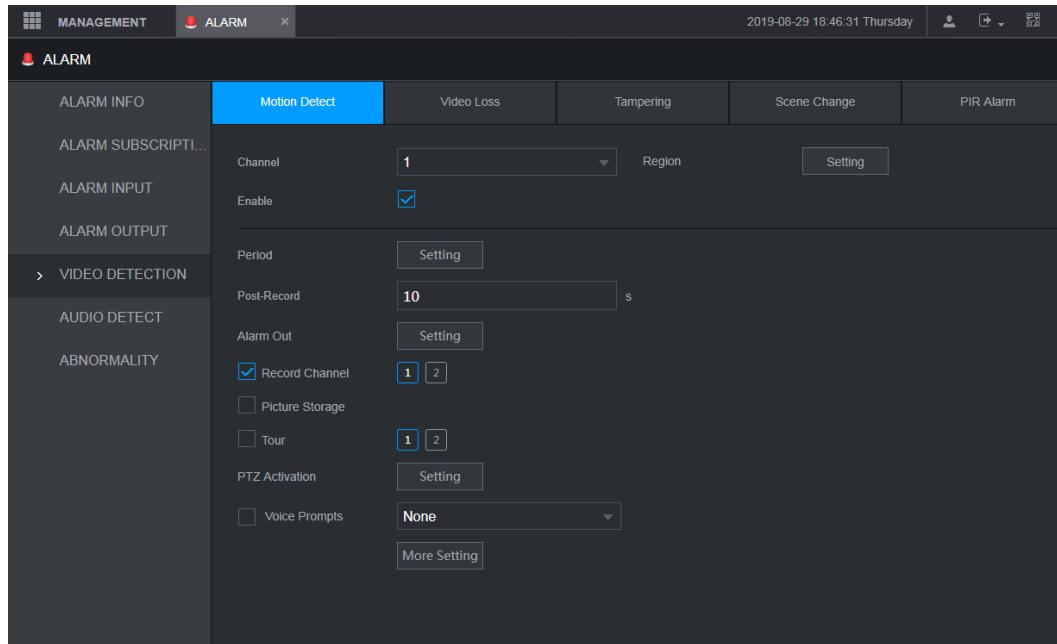
MD (motion detection) has a problem of false alarms, the change of brightness, shaking of leaves or the device, or a rain will trigger a motion detection alarm. Based on the MD function, SMD (Small Motion Detection) is aimed to improve the practical value of motion detection by intelligently analyzing and distinguishing human and vehicle in videos. Alarm event will be triggered only when human or vehicle is detected.

- i. **SMD Configuration:** Includes enable switch, sensitivity and effective target.



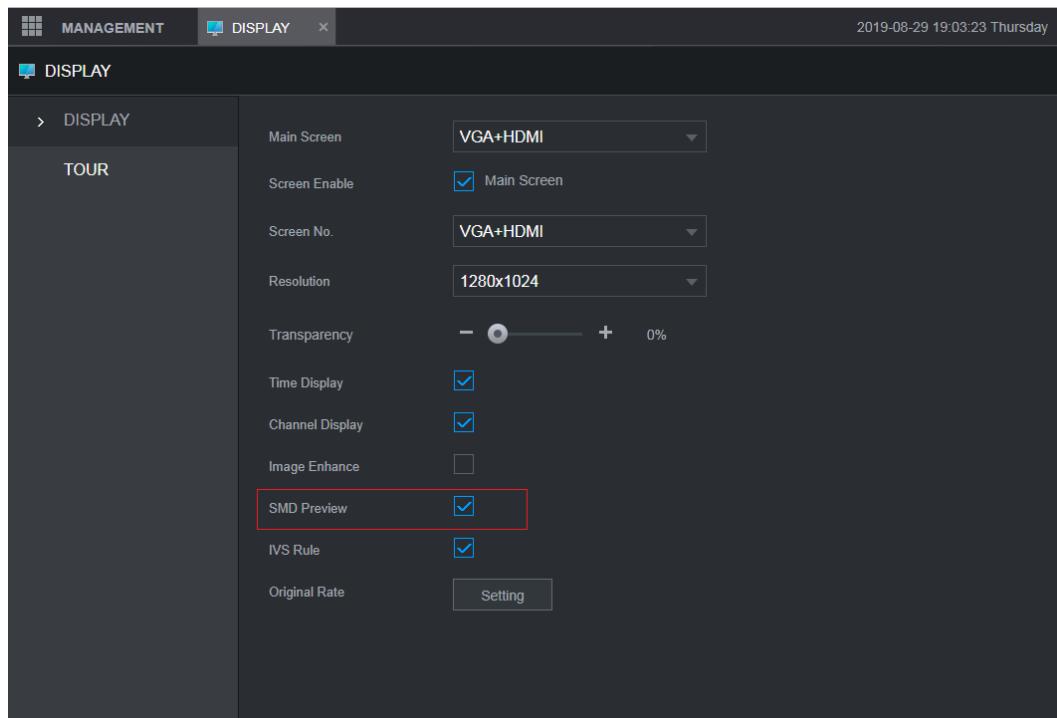
- ii. **SMD alarm configuration**

- SMD reuses alarm configuration of MD.
- When SMD is enabled, MD will be enabled synchronously and its alarm configuration will be applied to SMD.
- When MD is disabled, SMD will be disabled synchronously.
- When SMD is disabled, MD continues working.

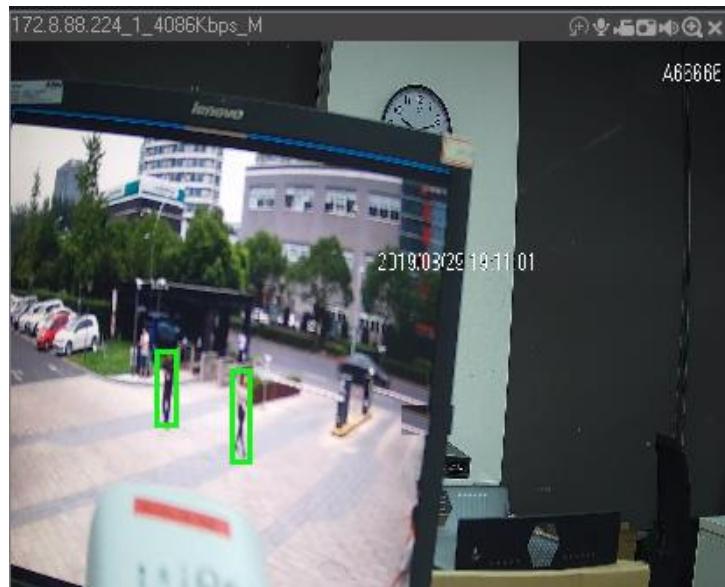


### iii. SMD rectangle displayed on human and vehicle

You can enable **SMD Preview** on **Display** interface to display SMD rectangle on human and vehicle.

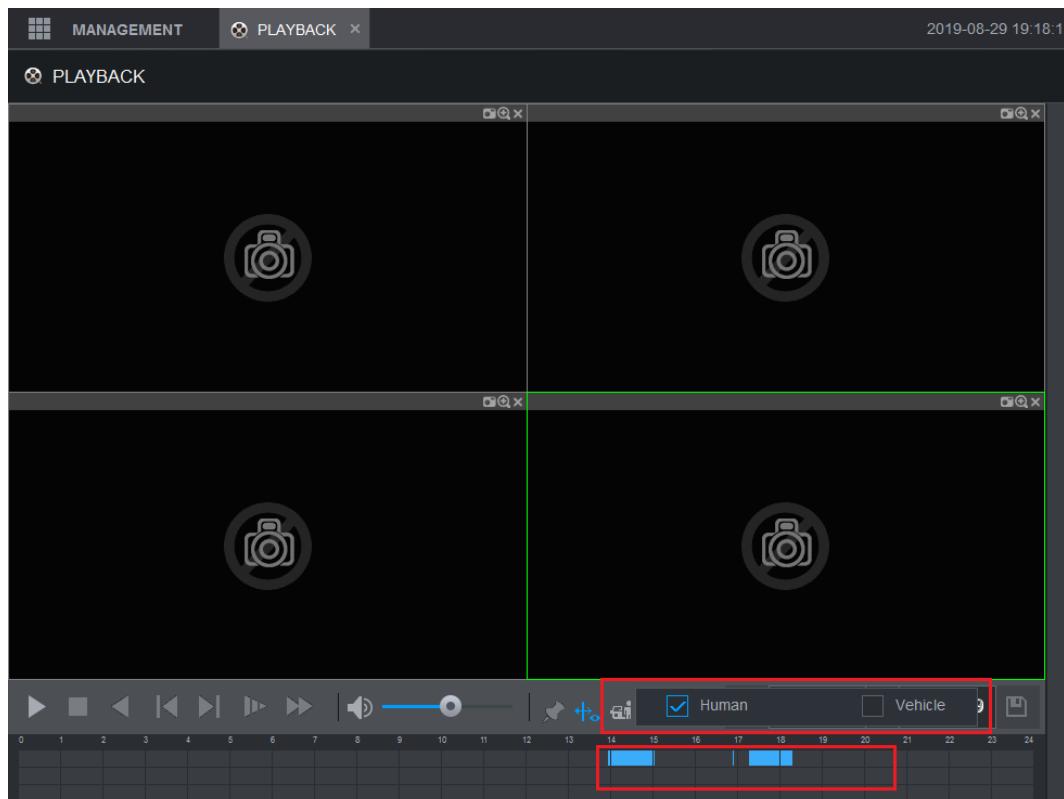


SMD rectangles are displayed as follows, flashing in every 2 seconds.



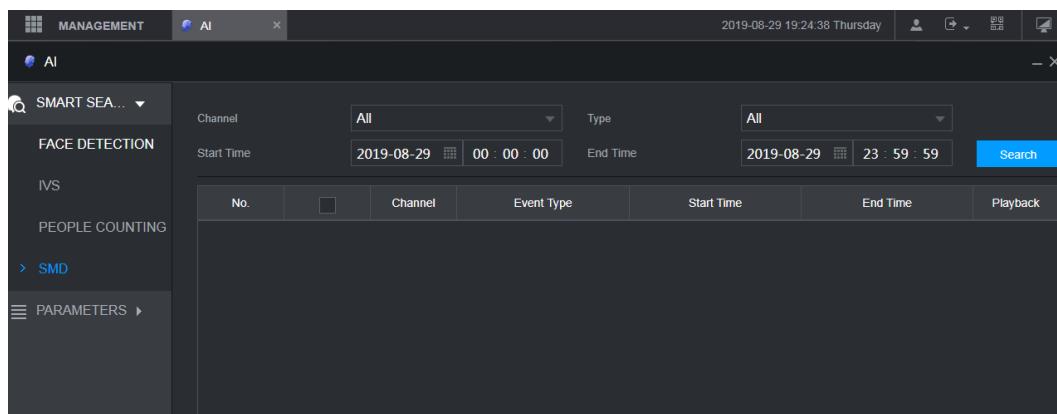
iv. **Filtered query and playback for human and vehicle**

- Query files are displayed in the color of blue.
- Enable switch reuses the switch of smart rules.
- Video playback by filtered result.



v. **SMD search on AI interface**

You can search for SDM event on the AI interface by time, channel, human and vehicle.

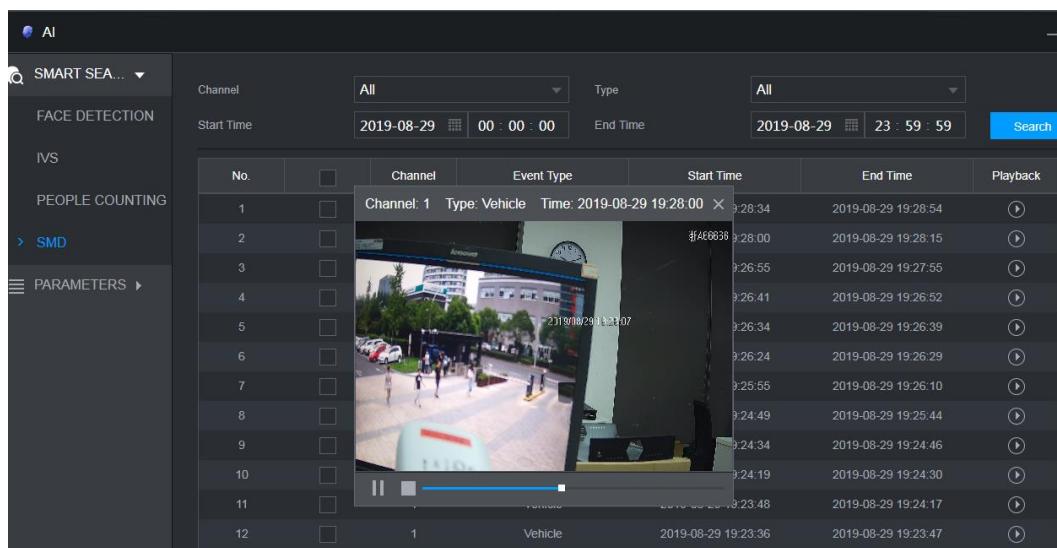


#### vi. SMD playback on AI interface

You can directly play videos in **Playback** column from start time to end time by filtered results.

Event Log						
No.	Channel	Event Type	Start Time	End Time	Playback	
1	1	Vehicle	2019-08-29 19:28:34	2019-08-29 19:28:54		
2	1	Vehicle	2019-08-29 19:28:00	2019-08-29 19:28:15		
3	1	Vehicle	2019-08-29 19:26:55	2019-08-29 19:27:55		
4	1	Vehicle	2019-08-29 19:26:41	2019-08-29 19:26:52		
5	1	Vehicle	2019-08-29 19:26:34	2019-08-29 19:26:39		
6	1	Vehicle	2019-08-29 19:26:24	2019-08-29 19:26:29		
7	1	Vehicle	2019-08-29 19:26:55	2019-08-29 19:26:10		
8	1	Vehicle	2019-08-29 19:24:49	2019-08-29 19:25:44		
9	1	Vehicle	2019-08-29 19:24:34	2019-08-29 19:24:46		

Click , and then a player will be prompted to play video.



## 1.4.2. Web Browse

You can visit the web of a remote device to finish configuration through the WEB Browse function of NVR, instead of visiting the remote device separately.

The screenshot shows a camera management software interface. In the top navigation bar, 'REGISTRATION' is selected. Below it, there are tabs for 'IMAGE' and 'ENCODE'. A search bar at the top right includes options for 'Search', 'Uninitialized', and 'Initialize'. The main area displays a table of registered devices:

No.	Pre...	Stat...	IP Address	Port	Device Name	Manufacturer	Type	MAC Address
1	LIVE	✓	192.168.1.100	37777	NVR	Private		
2	LIVE	✓	192.168.1.101	37777	NVR	Private		
3	LIVE	✓	192.168.1.102	37777	NVR	Private		
4	LIVE	✓	192.168.1.103	37777	NVR	Private		
5	LIVE	✓	192.168.1.104	37777	NVR	Private		
6	LIVE	✓	192.168.1.105	37777	XVR	Private		
7	LIVE	✓	192.168.1.106	37777	NVR	Private		

Below this table are buttons for 'Device Search', 'Add', 'Manual Add', and 'Modify IP'. To the right, there are filters for 'Show Filter' and 'None'. A second table titled 'Added Device' shows the details for device 2:

Channel	Edit	Delete	Status	IP Address	Port	Devic...	Remo...	Manuf...	CAM ...	WEB ...	Type
1				192.168.1.101	37777	5F004...	1	Private	1		
2				192.168.1.101	37777		1	Private	CAM 2		

Click , and then you can visit the web of a remote device to complete normal operations.

The screenshot shows a video configuration interface. On the left, a sidebar lists categories: Camera (Conditions, Video), Network, Event, Storage, System, and Information. The 'Video' tab is selected. The main panel has tabs for 'Video', 'Snapshot', 'Overlay', 'ROI', and 'Path'. The 'Video' tab is active. It contains two sections: 'Main Stream' and 'Sub Stream'.

**Main Stream:**

- Encode Mode: H.265
- Smart Codec: Off
- Resolution: 2688\*1520(2688x1520)
- Frame Rate(FPS): 25
- Bit Rate Type: CBR
- Reference Bit Rate: 1024-8192Kb/S
- Bit Rate: 4096 (Kb/S)
- I Frame Interval: 50 (25-150)
- Watermark Settings
- Watermark Character: DigitalCCTV

**Sub Stream:**

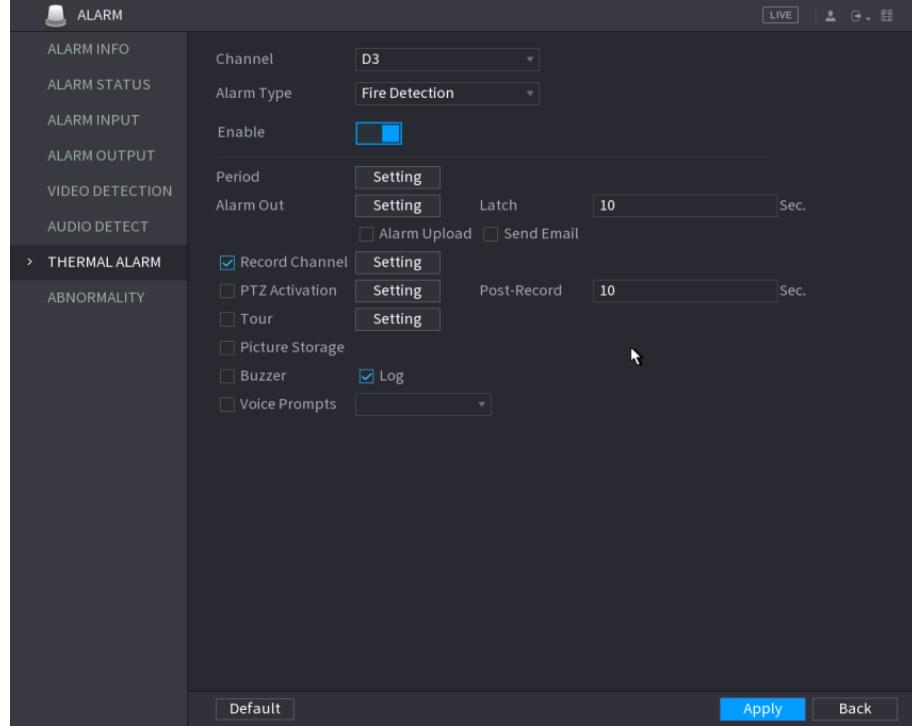
- Enable: Sub Stream 1
- Encode Mode: H.265
- Resolution: 352\*288(CIF)
- Frame Rate(FPS): 25
- Bit Rate Type: CBR
- Reference Bit Rate: 86-512Kb/S
- Bit Rate: 256 (Kb/S)
- I Frame Interval: 50 (25-150)

At the bottom of the main panel are buttons for 'Default', 'Refresh', and 'Save'.

### 1.4.3. Thermal Function Optimization

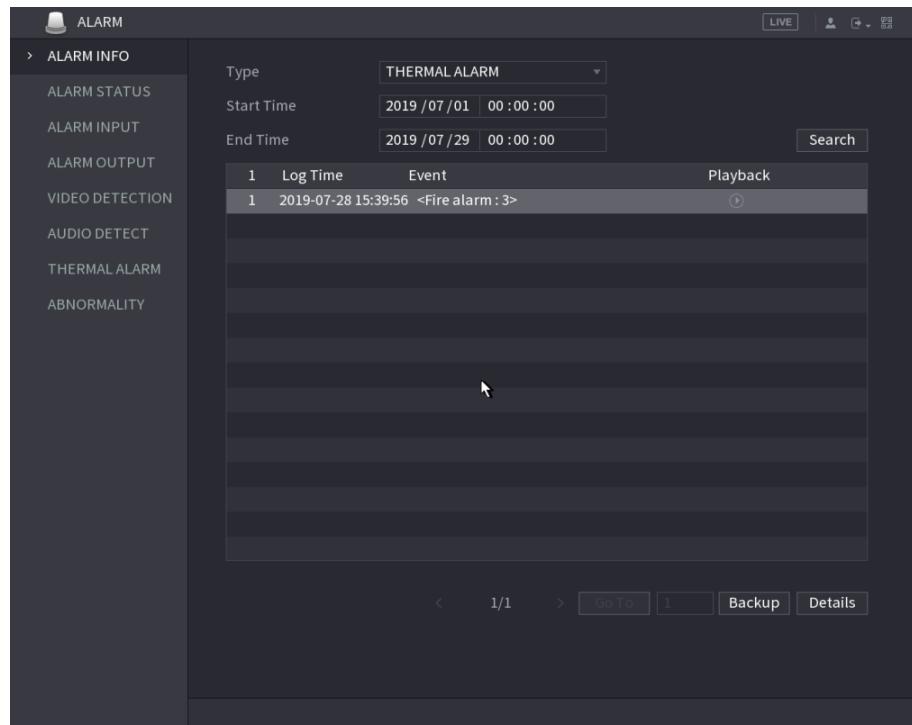
- Enable/disable thermal events.

You can enable/disable the thermal events such as fire, calling, smoking behavior, and smoke, and configure these functions accordingly.



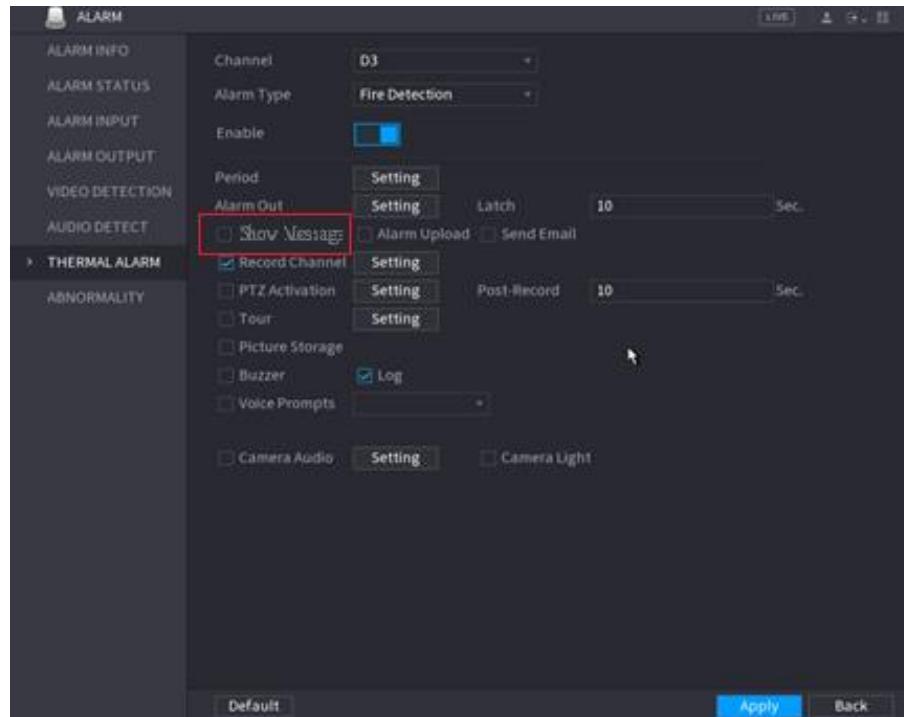
ii. Recorded video can be linked in logs.

If logs are saved when thermal event alarm is triggered, the corresponding video can be played back. If the event occurs during impulse time, the recorded video starts from 10s ahead and ends in 10s afterwards, which means additional 20s are played back. If the event has specific start time and end time, the playback covers the period between start time and end time.



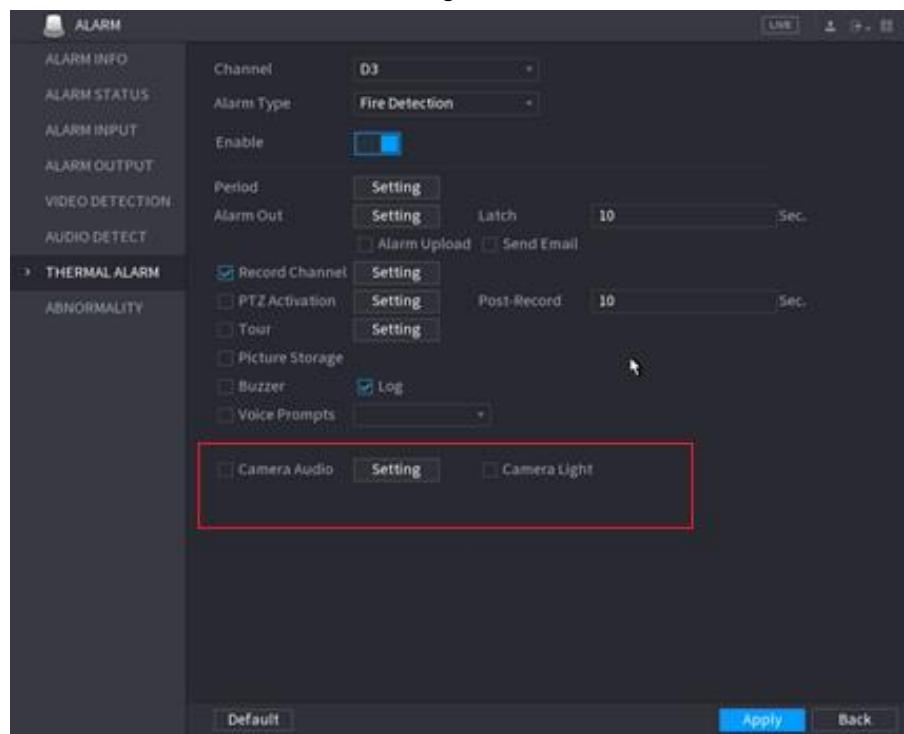
iii. Prompt can be linked when thermal event is detected.

Add prompt for thermal alarm linkage. When a thermal event is detected, the system prompts to remind user of event. This option is not selected by default.



iv. Siren and light alarm can be linked when thermal event is detected.

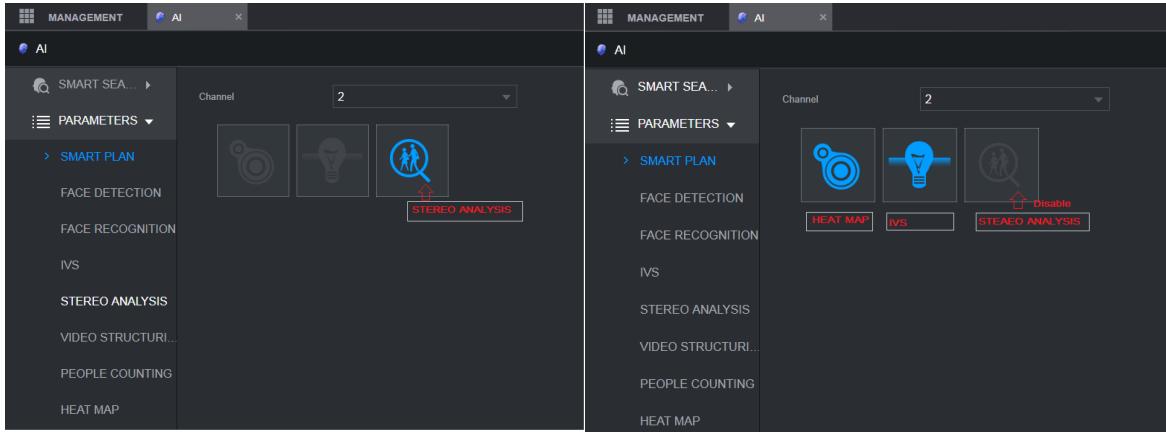
For siren and light alarm camera, you can configure audio and light setting on NVR, and select the check box to link audio and light.



#### 1.4.4. Stereo Behavior Analysis

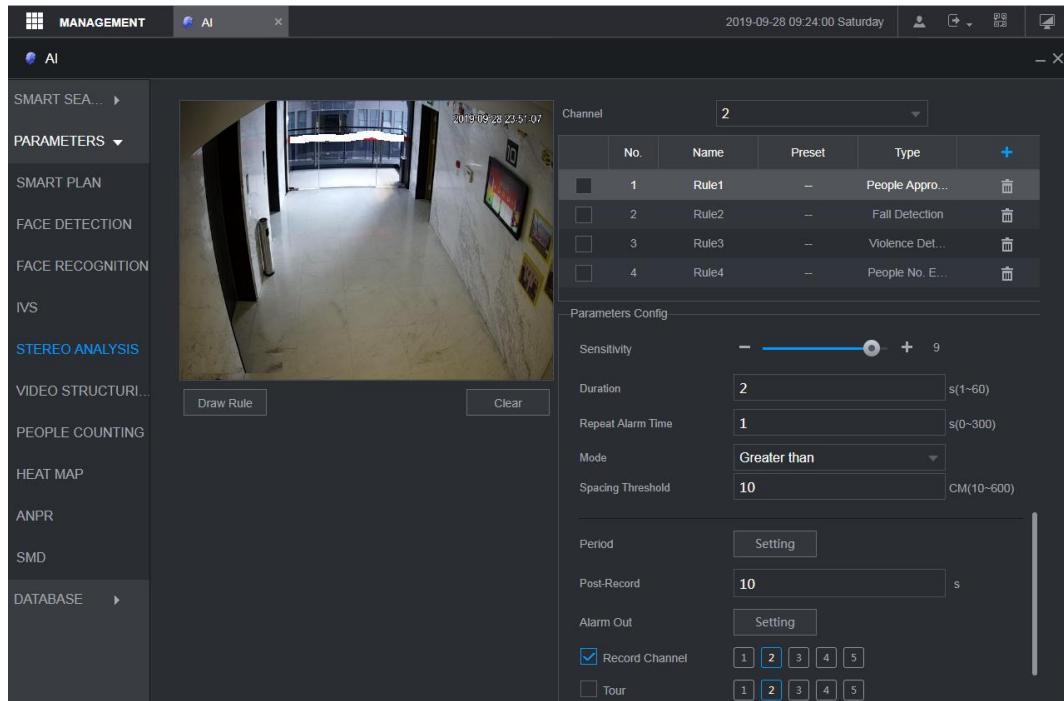
##### i. Smart Plan

Add Stereo Behavior Analysis camera to NVR. Stereo Behavior Analysis, IVS, and heatmap cannot be enabled at the same time on the same camera.



## ii. Configuration

Support configurations including rules and linkage for stereo behavior analysis function.



## iii. Functions

Stereo behavior analysis function includes People Approach Detection, Fall Detection, Violence Detection, People No. Exception Detection, People Stranding Detection. Maximum these five detection functions can be supported, and their rules are configured with different parameters settings which cannot be repeated.

Channel 2

	No.	Name	Preset	Type	+
<input type="checkbox"/>	1	Rule1	--	People Appro...	
<input type="checkbox"/>	2	Rule2	--	Fall Detection	
<input checked="" type="checkbox"/>	3	Rule3	--	Violence D	
<input type="checkbox"/>	4	Rule4	--	People Approa...	
<input type="checkbox"/>	5	Rule5	--	Fall Detection	

Parameters Config

Sensitivity

Period

Post-Record  s

Alarm Out

Record Channel

Tour

PTZ Activation

Channel 2

	No.	Name	Preset	Type	+
<input checked="" type="checkbox"/>	1	Rule1	--	People Appro...	
<input checked="" type="checkbox"/>	2	Rule2	--	Fall Detection	
<input checked="" type="checkbox"/>	3	Rule3	--	Violence Det...	
<input checked="" type="checkbox"/>	4	Rule4	--	People No. Ex...	
<input type="checkbox"/>	5	Rule5	--	People Strand...	

Parameters Config

Sensitivity

Duration  s(1~60)

Repeat Alarm Time  s(0~300)

Mode

Spacing Threshold  CM(10~600)

Tour

PTZ Activation

Channel 2

	No.	Name	Preset	Type	<a href="#">+</a>
<input checked="" type="checkbox"/>	1	Rule1	--	People Appr...	<a href="#"></a>
<input checked="" type="checkbox"/>	2	Rule2	--	Fall Detection	<a href="#"></a>
<input checked="" type="checkbox"/>	3	Rule3	--	Violence Det...	<a href="#"></a>
<input checked="" type="checkbox"/>	4	Rule4	--	People No. ...	<a href="#"></a>
<input checked="" type="checkbox"/>	5	Rule5	--	People Stop...	<a href="#"></a>

Parameters Config

**Fall Detection**

Sensitivity:  8

Duration:  s(1~60)

Repeat Alarm Time:  s(0~300)

Period: [Setting](#)

Post-Record:  s

Alarm Out: [Setting](#)

Record Channel: [1](#) [2](#) [3](#) [4](#) [5](#)

Channel 2

	No.	Name	Preset	Type	<a href="#">+</a>
<input checked="" type="checkbox"/>	1	Rule1	--	People Appr...	<a href="#"></a>
<input checked="" type="checkbox"/>	2	Rule2	--	Fall Detection	<a href="#"></a>
<input checked="" type="checkbox"/>	3	Rule3	--	Violence Det...	<a href="#"></a>
<input checked="" type="checkbox"/>	4	Rule4	--	People No. ...	<a href="#"></a>
<input checked="" type="checkbox"/>	5	Rule5	--	People Stop...	<a href="#"></a>

Parameters Config

**Violence Detection**

Sensitivity:  5

Period: [Setting](#)

Post-Record:  s

Alarm Out: [Setting](#)

Channel 2

	No.	Name	Preset	Type	<a href="#">+</a>
<input checked="" type="checkbox"/>	2	Rule2	--	Fall Detection	<a href="#"></a>
<input checked="" type="checkbox"/>	3	Rule3	--	Violence Det...	<a href="#"></a>
<input checked="" type="checkbox"/>	4	Rule4	--	People No. ...	<a href="#"></a>
<input checked="" type="checkbox"/>	5	Rule5	--	People Stran...	<a href="#"></a>

Parameters Config

**People No.Exception Detection**

Sensitivity	<input type="range" value="10"/>
Alarm People No.	<input type="text" value="0"/> Human (0~10)
Alarm Type	<input type="button" value="Greater than"/>
Duration	<input type="text" value="2"/> s(1~60)
Repeat Alarm Time	<input type="text" value="0"/> s(0~300)

Period

Post-Record  s

Alarm Out

Channel 2

	No.	Name	Preset	Type	<a href="#">+</a>
<input checked="" type="checkbox"/>	2	Rule2	--	Fall Detection	<a href="#"></a>
<input checked="" type="checkbox"/>	3	Rule3	--	Violence Det...	<a href="#"></a>
<input checked="" type="checkbox"/>	4	Rule4	--	People No. ...	<a href="#"></a>
<input checked="" type="checkbox"/>	5	Rule5	--	People Stran...	<a href="#"></a>

Parameters Config

**People Stranding Detection**

Sensitivity	<input type="range" value="5"/>
Strand Time	<input type="text" value="300"/> s(1~3600)
Repeat Alarm Time	<input type="text" value="0"/> s(0~300)

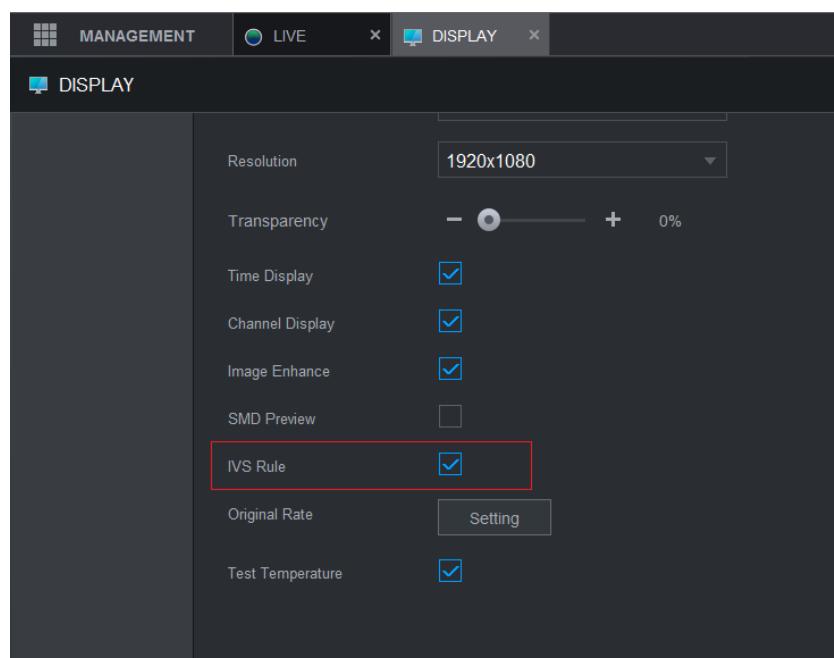
Period

Post-Record  s

Alarm Out

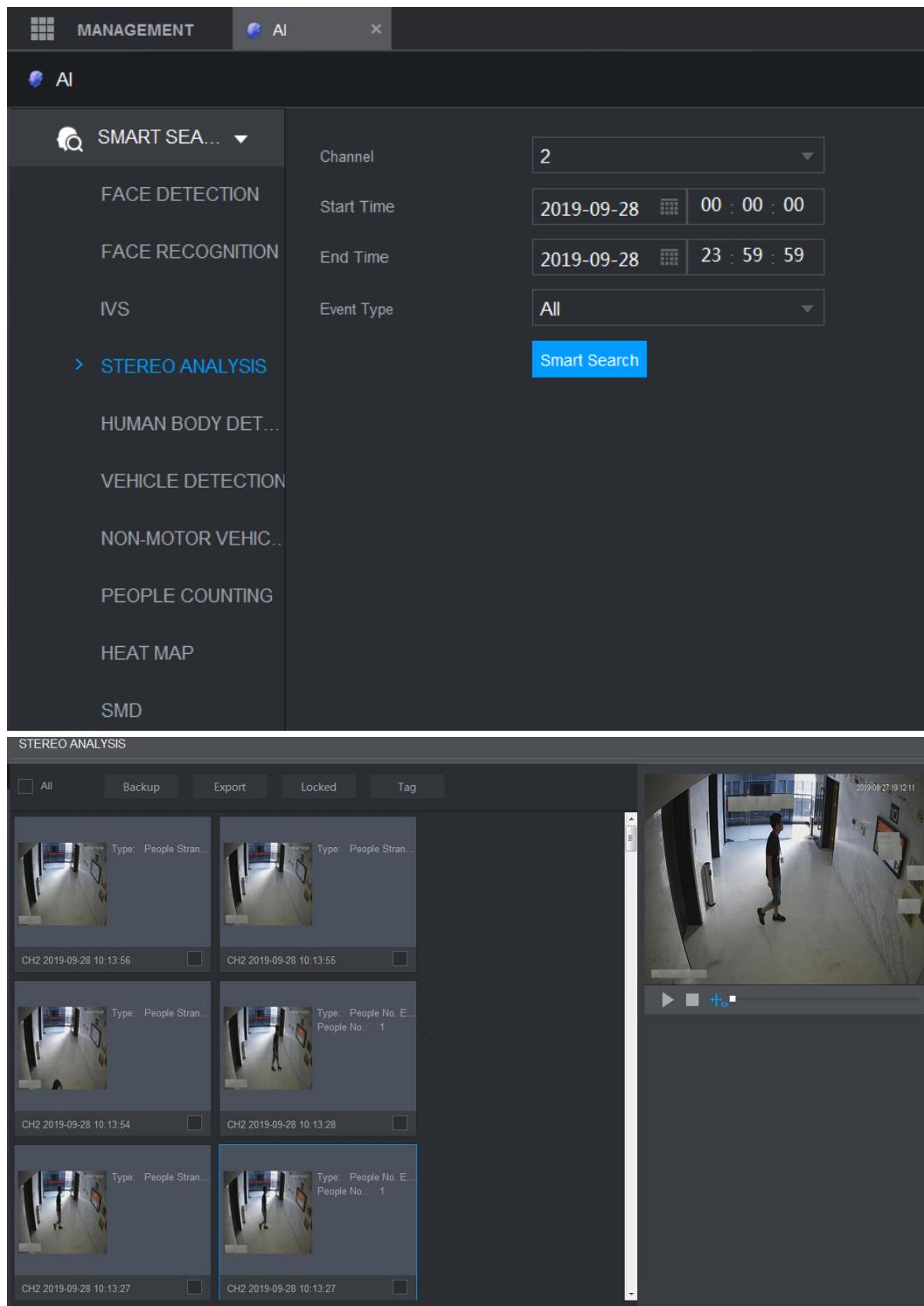
#### iv. **Display.**

In live view and playback, the detected information and rules can be displayed on the detected image. If you do not want the rules to be displayed, you can clear this selection in **DISPLAY**.



## v. Playback

Search, play back, export, and lock stereo behavior analysis events. The operations are like IVS. You can set searching conditions. The search results are displayed as picture, and you can double-click the picture to play back the recorded video from 10s ahead to 10s afterwards.



## VI. Linkage

Support linkage such as alarm out, record, PTZ operations, and logs. You can configure independent linkage setting for each rule.

The screenshot shows a software interface for managing rules. At the top, there's a dropdown menu labeled "Channel" with "2" selected. Below it is a table with columns: No., Name, Preset, Type, and a plus sign (+) for adding new rules. The table contains five rows, each with a checkbox, a number (1-5), a rule name (Rule1-Rule5), a preset value (dash), a type (e.g., People Appr..., Fall Detection, Violence Det...), and a delete icon.

Below the table is a section titled "Parameters Config" with a "Sensitivity" slider set to 5. A red box highlights a group of configuration options:

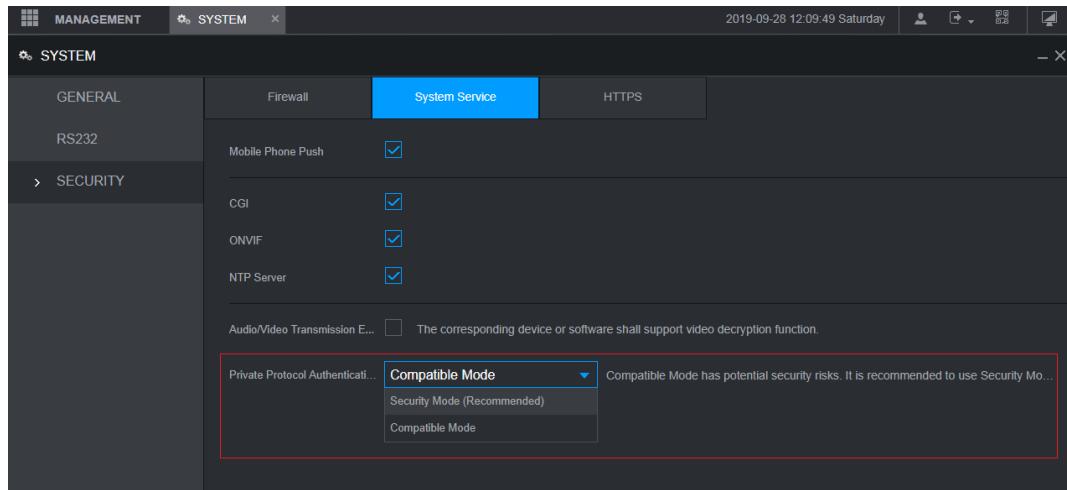
- Period**: Setting button.
- Post-Record**: Input field containing "10" followed by "s".
- Alarm Out**: Setting button.
- Record Channel**: A checked checkbox next to a row of five numbered buttons (1-5).
- Tour**: An unchecked checkbox next to a row of five numbered buttons (1-5).
- PTZ Activation**: Setting button.

## 1.4.5. Safe Login Authentication

- The system provides security mode and compatibility mode. It is safe mode by default for the sake of device security. Currently, Digest authentication login is supported.

The screenshot shows the "SYSTEM" management interface. The top navigation bar includes "MANAGEMENT", "SYSTEM", and a date/time stamp "2019-09-28 12:06:52 Saturday". The left sidebar has sections for "GENERAL", "RS232", and "SECURITY". The main content area has tabs for "Firewall", "System Service" (which is selected and highlighted in blue), and "HTTPS". Under "System Service", there are checkboxes for "Mobile Phone Push", "CGI", "ONVIF", and "NTP Server", all of which are checked. Below these is a note about audio/video transmission. A red box highlights a dropdown menu for "Private Protocol Authentication" which lists "Security Mode (Recommended)" (selected) and "Compatible Mode".

- It is recommended to use safe mode. When compatibility mode is selected, the system will prompt to user for reminding network risk.



## 1.5 Compatibility

After updating to latest new baseline version 4.0, user cannot update back to versions lower than version 4.0

## 1.6 Software Environment

Model	Version
DH-IPC-HFW81230E-Z-IRA,	2.6.01.05.06362 DH_IPC-HX8XXX-Nova_Chn_PN_Stream3_V2.640.0000004.0.R.1901 18.zip
DH-IPC-HF8331FP-S2,	2.6.01.05.06365 DH_IPC-HX8XXX-Nova_MultiLang_PN_Stream3_V2.640.0000004.0.R. .190118.zip
DH-IPC-HF81239F,	2.6.01.05.06889 DH_IPC-HX8XXX-Wei-Nova2_Chn_PN_Stream3_V2.622.0000000.6. R.190130.zip
DH-IPC-HFW5233F-ZSA-27135,	2.6.01.05.05914 DH_IPC-HX4XXX-Eos_Chn_PN_Stream3_V2.680.0000000.41.R.1812 12.zip
DH-IPC-HFW8239K-Z-I4-3512,	2.6.01.05.05912 DH_IPC-HX8XXX-Eos_Chn_PN_Stream3_V2.680.0000000.41.R.1812 12.zip
DH-IPC-HFW8438K-Z-I4-27135,	2.6.01.05.03379 DH_IPC-HX5X3X-Rhea_Chn_PN_Stream3_V2.622.0000000.30.R.180 905.zip
DH-IPC-HFW4443M-AS-PV-I2-0 360B,	2.6.01.05.08342 DH_IPC-HX5XXX-Volt_Chn_PN_Stream3_V2.680.0000000.5.R.19040 4.zip
DH-IPC-HFW4833F-ZAS-3512,	2.6.01.05.08213 DH_IPC-HX5(4)XXX-Sag_Chn_PN_Stream3_V2.800.0000000.2.R.19 0404.zip
DH-IPC-HFW4433K-AS-I4-0360 B,	2.6.01.05.05914 DH_IPC-HX4XXX-Eos_Chn_PN_Stream3_V2.680.0000000.41.R.1812 12.zip
DH-IPC-HDBW5233E-Z-X1-2713 5-DC12AC24V,	2.6.01.05.07673 DH_IPC-HX5X3X-Rhea_Chn_PN_Stream3_V2.800.0000005.0.R.1903 25.zip
DH-IPC-HFW4631K-AS-I4-0360 B,	2.6.01.05.07673 DH_IPC-HX5X3X-Rhea_Chn_PN_Stream3_V2.800.0000005.0.R.1903 25.zip
DH-IPC-HFW5433E-Z-IRA-X1-0 560-DC12AC24V,	2.6.01.05.07673 DH_IPC-HX5X3X-Rhea_Chn_PN_Stream3_V2.800.0000005.0.R.1903 25.zip
DH-IPC-HFW5631E-Z-0735-AC2 4V,	2.6.01.05.07673 DH_IPC-HX5X3X-Rhea_Chn_PN_Stream3_V2.800.0000005.0.R.1903 25.zip
DH-IPC-HDBW5431EP-ZE-2713 5,	2.6.01.05.07655 DH_IPC-HX5X3X-Rhea_MultiLang_PN_Stream3_V2.800.0000005.0.R .190325.zip

<b>Model</b>	<b>Version</b>
DH-IPC-HDBW5831EP-ZE-0735,	2.6.01.05.07655 DH_IPC-HX5X3X-Rhea_MultiLang_PN_Stream3_V2.800.0000005.0.R.190325.zip
DH-IPC-HUM8231P-E2,	2.6.01.05.02685 DH_IPC-HX5X3X-Multi-Rhea_Eng_P_V2.622.0000000.31.R.180813.zip
DH-IPC-HUM7233-E1,	2.6.01.05.07673 DH_IPC-HX5X3X-Rhea_Chn_PN_Stream3_V2.800.0000005.0.R.190325.zip
DH-IPC-HFW8249E-ZFR-IRA-LED-0832,	2.6.01.05.07146 DH_IPC-HX8X4X-Warpway_Chn_PN_Stream3_V2.680.0000000.1.R.190223.zip
DH-IPC-HF8841F-FD,	2.6.01.05.07146 DH_IPC-HX8X4X-Warpway_Chn_PN_Stream3_V2.680.0000000.1.R.190223.zip
DH-IPC-HFW8841E-ZFR-IRA-LED-67134,	2.6.01.05.07146 DH_IPC-HX8X4X-Warpway_Chn_PN_Stream3_V2.680.0000000.1.R.190223.zip
DH-IPC-HFW8249E-ZFDI-IRA-LED-0832,	2.6.01.05.07160 DH_IPC-HX8X4X-Warpway2_Chn_PN_Stream3_V2.680.0000000.1.R.190223.zip
DH-IPC-HDW7341X-E2-0280B,	2.6.01.05.05281 DH_IPC-HX8X4X-Kronos_Chn_PN_Stream3_V2.622.0000000.5.R.181215.zip
DH-IPC-HFW7243K-ZPC-I4-0735,	2.6.01.05.08217 DH_IPC-HX8X4X-Warpway2_Chn_PN_Stream3_V2.622.0000000.9.R.181119.zip
DH-IPC-HD4140X-E2-0210B,	2.6.01.05.08217 DH_IPC-HX7XXX-Sag_Chn_PN_Stream3_V2.800.0000000.2.R.190404.zip
DH-IPC-HDW8341XP-3D-0280B,	2.6.01.05.05284 DH_IPC-HX8X4X-Kronos_Eng_P_Stream3_V2.622.0000000.5.R.181215.zip
DH-IPC-HDW7341X-B-E2-0280B,	2.6.01.05.02992 DH_IPC-HX8X4X-Kronos_Chn_PN_Stream3_V2.622.0000000.4.R.180816.zip
DH-IPC-HFW8449K-ZRL-LED-3512,	DH_IPC-HX8XXX-Volt_Chn_PN_Stream3_V2.680.0000000.5.R.190404.zip
DH-IPC-HFW5541EP-ZE-27135,	DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.680.0000000.5.R.190404.zip
DH-IPC-HFW5241EP-ZE-27135,	DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.680.0000000.5.R.190404.zip
DH-IPC-HFW5541EP-ZE-27135,	DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.680.0000000.5.R.190404.zip

<b>Model</b>	<b>Version</b>
DH-IPC-HF8242FP-FR,	2.6.01.05.07153 DH_IPC-HX8X4X-Warpway_EngSpnFrn_PN_Stream3_V2.680.000000 0.1.R.190223.zip
DH-IPC-HF8242FP-FD,	2.6.01.05.07153 DH_IPC-HX8X4X-Warpway_EngSpnFrn_PN_Stream3_V2.680.000000 0.1.R.190223.zip
DH-IPC-HF8241FP,	2.6.01.05.07170 DH_IPC-HX8X4X-Warpway2_EngSpnFrn_PN_Stream3_V2.680.000000 00.1.R.190223.zip
DH-IPC-PDBW5831P-B360-E4-2712,	2.6.01.05.06704 DH_IPC-HX8(5)XXX-Sag_EngSpnFrn_PN_V2.622.0000000.21.R.190 125.zip
DH-IPC-PDB4830P-B360-E4-0360B,	2.6.01.05.07064 DH_IPC-HX8(5)XXX-Sag_EngSpnFrn_PN_V2.622.0000000.22.R.190 225.zip
DH-PSDW5631SP-B360-E4-D204-DC12V,	2.6.01.05.06035 DH_IPC-HX8(5)XXX-Sag_EngSpnFrn_PN_V2.622.0000000.20.R.190 110.zip
DH-IPC-PFW8809-H-A180-E4-A C24V,	DH_IPC-PFW8XXX-Nova_Chn_PN_Stream3_V2.622.0000000.3.R.18 1201.zip
DH-PSDW81649-H-A360-E9,	DH_IPC-PSD8XXX-Fafnir_Chn_PN_Stream3_V2.622.0000000.1.R.18 1205.zip
DH-PSD81602P-H-A360-E9,	DH_IPC-PSD8XXX-Nova_Eng_P_Stream3_V2.460.0000.4.R.2017092 7.zip
DH-IPC-PFW8802P-H-A180-E4-AC24V,	DH_IPC-PFW8XXX-Nova_Eng_P_Stream3_V2.622.0000000.3.R.181 201.zip
DH-IPC-HDBW4231FP-E2-M-0360B,	2.6.01.05.02685 DH_IPC-HX5X3X-Multi-Rhea_Eng_P_V2.622.0000000.31.R.180813.zi p
DH-IPC-EW5431-ASW,	2.1.02.01.17602 DH_IPC-HX5X3X-Rhea_Chn_PN_Stream3_V2.460.0000000.16.R.201 70919.zip
DH-IPC-EB5531,	2.6.01.05.07655 DH_IPC-HX5X3X-Rhea_MultiLang_PN_Stream3_V2.800.0000005.0.R .190325.zip
DH-IPC-EBW81230,	2.6.01.05.06903 DH_IPC-HX8XXX-Nova2_Chn_PN_Stream3_V2.622.0000000.6.R.190 130.zip
DH-IPC-EBW8630P,	2.6.01.05.06908 DH_IPC-HX8XXX-Nova2_EngSpnFrn_PN_Stream3_V2.622.0000000. 6.R.190130.zip
DH-IPC-EBW81230P,	2.6.01.05.06908 DH_IPC-HX8XXX-Nova2_EngSpnFrn_PN_Stream3_V2.622.0000000. 6.R.190130.zip

<b>Model</b>	<b>Version</b>
ITC237-PU1B-IR,	2.6.01.08.01701 General_ITC237-PU1B(PW1B)-IR(IRZ)(L)_Eng_PN_Oversea_Europe_V2.622.0000000.1.R.181114.zip
ITC237-PW1B-IRZ,	2.6.01.08.01701 General_ITC237-PU1B(PW1B)-IR(IRZ)(L)_Eng_PN_Oversea_Europe_V2.622.0000000.1.R.181114.zip
ITC215-PW4I,	General_ITC215-PW4I-XXX_Eng_PN_Oversea_ITCPUSH_EuropeEN TRANCE_V2.623.0000000.0.R.180930.zip
ITC952-RF2D,	General_ITCXX2-RF2D-IR_Eng_PN_Oversea_3G_V2.622.0000000.7. R.190321.zip
ITC352-RF2D,	General_ITCXX2-RF2D-IR_Eng_PN_Oversea_3G_V2.622.0000000.7. R.190321.zip
ITC302-RF2D,	General_ITCXX2-RF1D(RF2D)_Chn_P_V2.722.0000000.0.R.190409. zip
ITC902-RF2D,	General_ITCXX2-RF1D(RF2D)_Chn_P_V2.722.0000000.0.R.190409. zip
ITC235-RF1D,	General_ITC235-RF1D_Chn_P_V2.622.0000000.0.R.180424.zip
ITC235-RF2E,	General_ITC235-RF1E(RF2E)_Chn_P_Stream3_V2.620.0000000.0.R. 180705.zip
ITC835-RF1D,	General_ITC835-RF1D_Chn_PN_V2.622.0000000.0.R.180818.zip
ITC302-SF2D-QD,	General_ITC302-SF2D-QD_Chn_P_V2.622.0000000.0.R.180611.zip
ITC902-SF2D-QA,	General_ITC902-SF2D-QA_Chn_P_V2.622.0000000.0.R.180425.zip
ITC902-SF2D-QB,	General_ITC902-SF2D-QB_Chn_P_V2.401.0000000.1.R.180509.zip
ITC215-PW5H-F3,	General_ITC215-PW5H-F(R)_Chn_PN_GAYSITCPUSH_Mainland_V2 .622.0000000.2.R.180929.zip
ITC215-PW5H,	General_ITC215-PW5H-F(R)_Chn_PN_GAYSITCPUSH_Mainland_V2 .622.0000000.2.R.180929.zip
ITC314-PH2A,	General_ITCXX4-PH1B(PH1C)(PH2A)-(TF2)_Chn_PN_GAYS_Mainla nd_V2.622.0000000.1.R.180418.zip
DH-TPC-BF8x21	General_TPC-BF8X21_V2.200.0000000.5.R.190327.zip
DH-SD-8A1840WA-HNF,	2.6.01.05.07347 DH_SD-Fafnir_Chn_PN_Stream3_V2.623.0000000.13.R.190227.zip
SD6CE230U-HNI,	2.6.01.05.06726  DH_SD-Eos_MultiLang_PN_Stream3_V2.623.0000000.17.R.190119.zi p
DH-SD-1A1203UE-GN-PD,	2.1.01.04.10167  DH_SD-Eos-Civil_Chn_PN_Stream3_V2.622.0000000.13.R.180328.zi p
DH-SD29204UE-GN-W,	2.6.01.05.06270  DH_SD-Eos-Civil_MultiLang_PN_Stream3_V2.623.0000000.17.R.190 119.zip

<b>Model</b>	<b>Version</b>
DH-SD6C82F-HNP(ZJ)-A	2.6.01.05.08251 DH_SD-Eos_Chn_PN_Stream3-ZhouJie_V2.623.0000000.17.R.190119.zip
DH-SD-6C3440XA-HNR,	2.6.01.05.06793 DH_SD-Prometheus_Chn_PN_Stream3_V2.623.0000000.5.R.190220.zip
DH-SDT-5A404WA-C4F,	2.6.01.05.07333 DH_SD-Fafnir_Chn_PN_Stream3-Lingtong_V2.623.0000000.13.R.190227.zip
DH-SDT-8A1840WA-T8Z4,	2.6.01.05.08301 DH_SD-Fafnir_Chn_PN_Stream3-Tianshu_V2.800.0000000.1.R.190402.zip
DH-VTO9341D-S,	2.6.01.18.01051 General_VTO9341D-S_Chn_P_SIP_V1.000.0000000.5.R.20181010.zip
DH-VTT201,	2.6.01.18.00886 General_VTT201_Chn_P_16M_SIP_V1.001.0000000.2.R.20180817.zip
DHI-DSS7016D-S2,	General_OverseasDSS7016S2_Eng_Basic_V1.000.0000000.0.R.20181130.tar.gz,
DSS7016D-S2-I,	During development.
DSSC9100/C9505	During development.
IBSP-PRO	2.7.01.07.00243 General_iBSP_Chn_Oracle_IS_V4.000.0000001.0.R.20190122.tar.gz
H8900,	2.7.01.08.00410 General_DSS-H8900_Chn_Basic_V3.001.0000001.7.R.20190131.tar.gz
NKB1000,	General_NETKB1000_Chn_V2.610.0000.4.R.20161024.zip,
NKB5000,	DH_NKB5000_Chn_V3.210.0003.0.R.170930.BIN,
NVD0405DH-4K,	General_NVD0405DH-4K_Chn_P_V3.200.0002.00.R.20170713.zip
NVD0905DH-4I-4K,	General_NVD0905DH-4K_Chn_V3.200.0003.0.R.170509.BIN
SmartPSS	DH_SmartPSS_ChnEng_Win32_IS_V2.02.0.R.171124.zip,
DMSS	2.1.02.01.10709 General_DMSS-IOS-Phone-Lite-Device_Internal_Basic_IS_V3.24.000.R.140928.ipa
Player	General_Player_Chn_WIN32_V3.44.0.R.170421.zip,
ConfigTool	General_ConfigTool_ChnEng_V4.011.00000001.4.R.20190305.zip,
NetSDK	General_NetSDK_Chn_Win64_IS_V3.050.0000005.3.R.190225.7z,
DiskManager	

## 1.7 Pending Issues

None.

## **1.8 Update Guide**

None.

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