



DH_XVR5x16-I2_MultiLang_ V4.001.0000005.0.R.220808

Release Notes



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Release Notes

1.1 Overview

Item	Description
Product model	DIGITAL VIDEO RECORDER
Version	DH_XVR5x16-I2_MultiLang_V4.001.0000005.0.R.220808.zip
Software package information	DH-XVR5416L-I2; DH-XVR5816S-I2; DH-XVR5108HS-4KL-I2; DH-XVR5108H-4KL-I2; DH-XVR5108HE-4KL-I2; DH-XVR5208AN-4KL-I2; DH-XVR5208A-4KL-I2; DH-XVR7104H-4K-I2; DH-XVR7104HE-4K-I2; DH-XVR5116HS-I2; DH-XVR5116H-I2; DH-XVR5116HE-I2; DH-XVR5216AN-I2; DH-XVR5216A-I2;
OS requirement	None
Release date	August 17, 2022

1.2 Functions and Applications

This series product can work with devices such as camera, HDD to monitor the specified scenarios and play back the recorded video files. It can monitor, play back videos and support remote surveillance once the device is connected to the network. It supports cellphone monitor from anywhere at anytime through the Internet.

This series product supports five camera signals (CVI, AHD, TVI, CVBS, and IPC) and is compatible with the popular signal types on today's market. It can use the original coaxial cable and support network cable too. It is suitable to update the current system, at the same time; it can meet the expansible requirements of new projects.

CVI product has entered the H.265 era. With the lower bit rate and more advanced compression technology, it can reduce storage space and network transmission data.

1.3 New Features

H.265 series products with new software security baseline 2.2, the following features are added:



Features might vary from different models, and the actual product shall prevail.

No.	Feature	Description
1	Smart illumination	AI intelligence supports the configuration of Smart illumination.
2	Schedule mode for AI functions	AI intelligence supports schedule mode.
3	IVS mode switch	For some models, user can switch the IVS function between general mode and advanced mode.

4	Disabling event notifications in disarming	Disarming supports the configuration of Event Notifications.
5	Sensitivity for IVS settings	The rule of IVS supports the configuration of sensitivity.
6	Disk quota 2.0	HDD supports Disk Quota 2.0.
7	Software security baseline 2.2	Supported software security baseline 2.2.

1.4 Instructions for New Features

1.4.1 Smart illumination

Step 1 Select Main Menu > AI > Parameters > SMD.

Step 2 In the **Channel** list, select a channel, and then enable it.

Step 3 Configure the parameters.

The screenshot shows the SMD configuration interface with the following settings:

- Channel: 1
- Enable:
- Sensitivity: Medium
- Effective Target: Human, Motor Vehicle
- Schedule: Setting
- Anti-Dither: 5 sec.
- Alarm-out Port: Setting
- Post-Alarm: 10 sec.
- Show Message: Send Email: Report Alarm:
- Record Channel: Setting
- PTZ Linkage: Setting
- Post-Record: 10 sec.
- Tour: Setting
- Picture Storage: Setting
- Buzzer: Log:
- Alarm Tone: None
- Warning Light: Siren: alarm (dropdown menu open showing: alarm, No parking here, Private land no entry, Warning zone keep off, Welcome)
- Smart Illumination:

SMD linkage configuration synchronization. configuration.

Buttons: Default, Apply, Back

Parameter	Description
+Smart Illumination	Select the checkbox to enable the smart illumination of the camera.



Perimeter, face detection, and face recognition also support this linkage item.

1.4.2 Schedule mode for AI functions

There are two modes for a channel to activate AI functions.

- General mode: Only one AI function can be enabled for the designated channel during different periods on each day in the week.
- Schedule mode: The system can activate different AI functions for the designated channel during different periods on each day in the week.

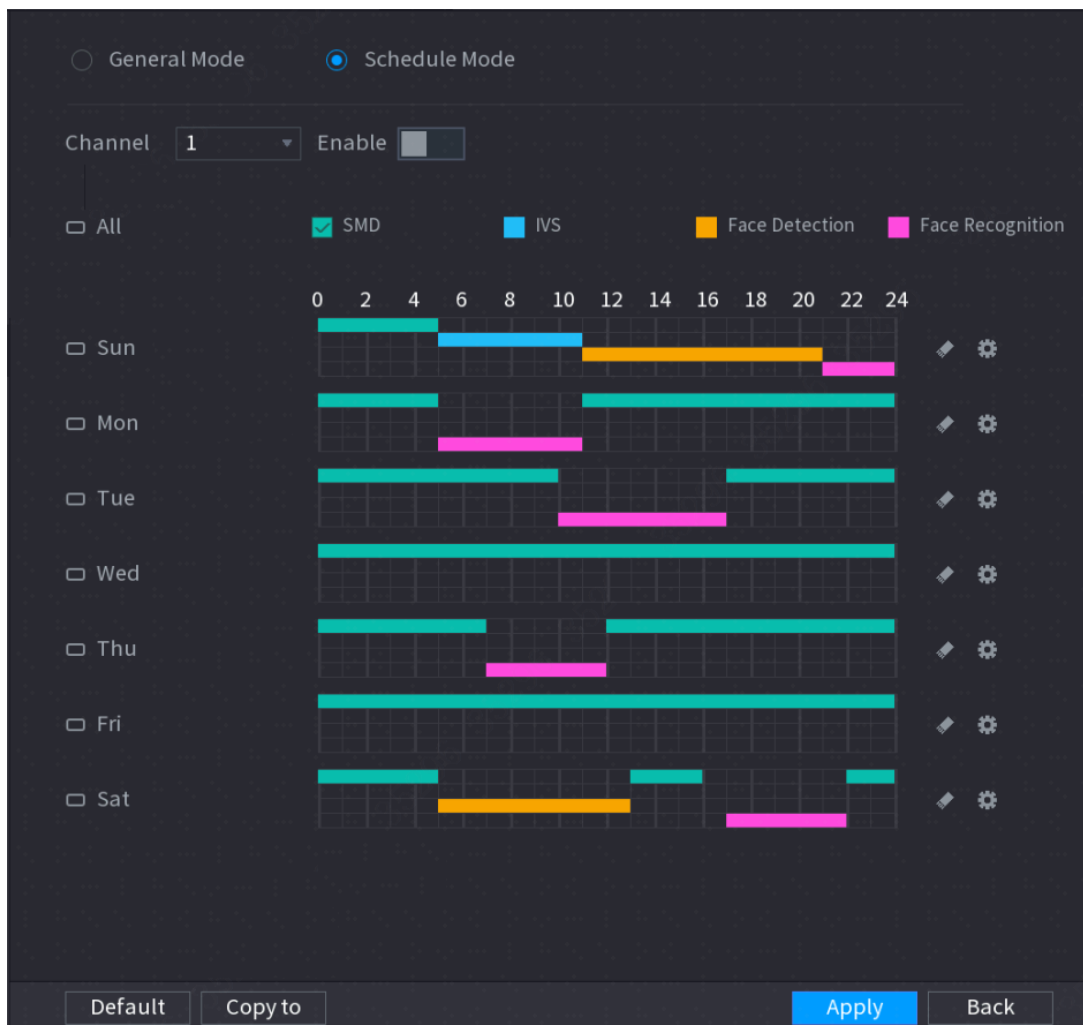
This section introduces how to enable the schedule mode.

Step 1 Select Main Menu > AI > Parameters > Intelligent Mode.

Step 2 Select Schedule Mode.



The configurations of AI functions in the general mode and schedule mode are independent. The changes you make in one mode does not affect the configurations in the other mode.




Step 3 Select one channel and then click .

Step 4 Define the periods for AI functions.

- Define the period by drawing.
 - 1) Select the checkbox of AI function.



- 2) On the timeline, drag to define a period.
You can set up to 6 periods for each day in the week. For each period, you can enable an AI function.
 - Define the period by editing.
- 3) Click .

Period

Day	Sun				
Period 1	00 : 00 - 05 : 00	<input checked="" type="checkbox"/> SMD	<input type="checkbox"/> IVS	<input type="checkbox"/> Face Detection	<input type="checkbox"/> Face Recognition
Period 2	05 : 00 - 11 : 00	<input type="checkbox"/> SMD	<input checked="" type="checkbox"/> IVS	<input type="checkbox"/> Face Detection	<input type="checkbox"/> Face Recognition
Period 3	11 : 00 - 21 : 00	<input type="checkbox"/> SMD	<input type="checkbox"/> IVS	<input checked="" type="checkbox"/> Face Detection	<input type="checkbox"/> Face Recognition
Period 4	21 : 00 - 24 : 00	<input type="checkbox"/> SMD	<input type="checkbox"/> IVS	<input type="checkbox"/> Face Detection	<input checked="" type="checkbox"/> Face Recognition
Period 5	00 : 00 - 24 : 00	<input type="checkbox"/> SMD	<input type="checkbox"/> IVS	<input type="checkbox"/> Face Detection	<input type="checkbox"/> Face Recognition
Period 6	00 : 00 - 24 : 00	<input type="checkbox"/> SMD	<input type="checkbox"/> IVS	<input type="checkbox"/> Face Detection	<input type="checkbox"/> Face Recognition
<input type="checkbox"/> All					
<input checked="" type="checkbox"/> Sun		<input type="checkbox"/> Mon	<input type="checkbox"/> Tue	<input type="checkbox"/> Wed	<input type="checkbox"/> Thu
		<input type="checkbox"/> Fri	<input type="checkbox"/> Sat		

OK
Cancel

Configure the time range for each period and then select the AI function to be effective during each period.



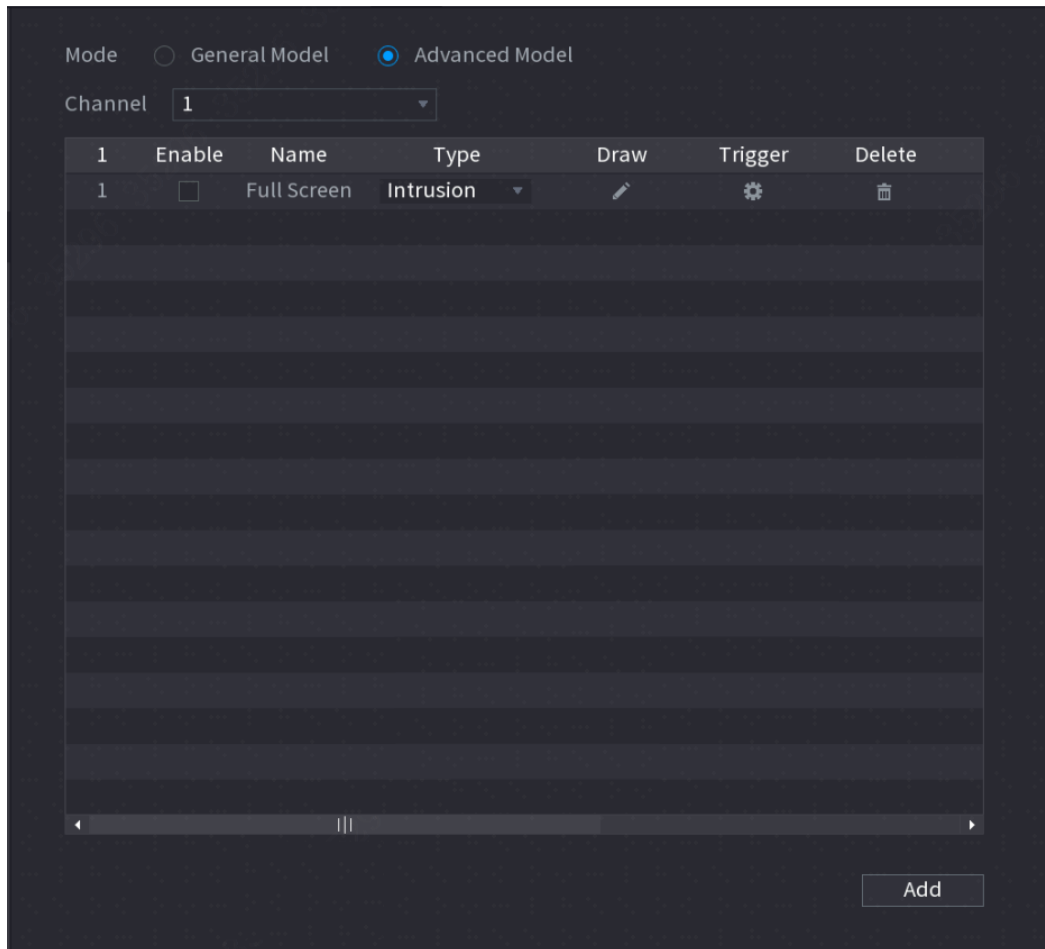
You can select **All** to apply the settings to all the days in the week, or select specific days that you want to apply the settings to

- 4) Click **OK**.

Step 5 Click **Apply**.

1.4.3 IVS mode switch

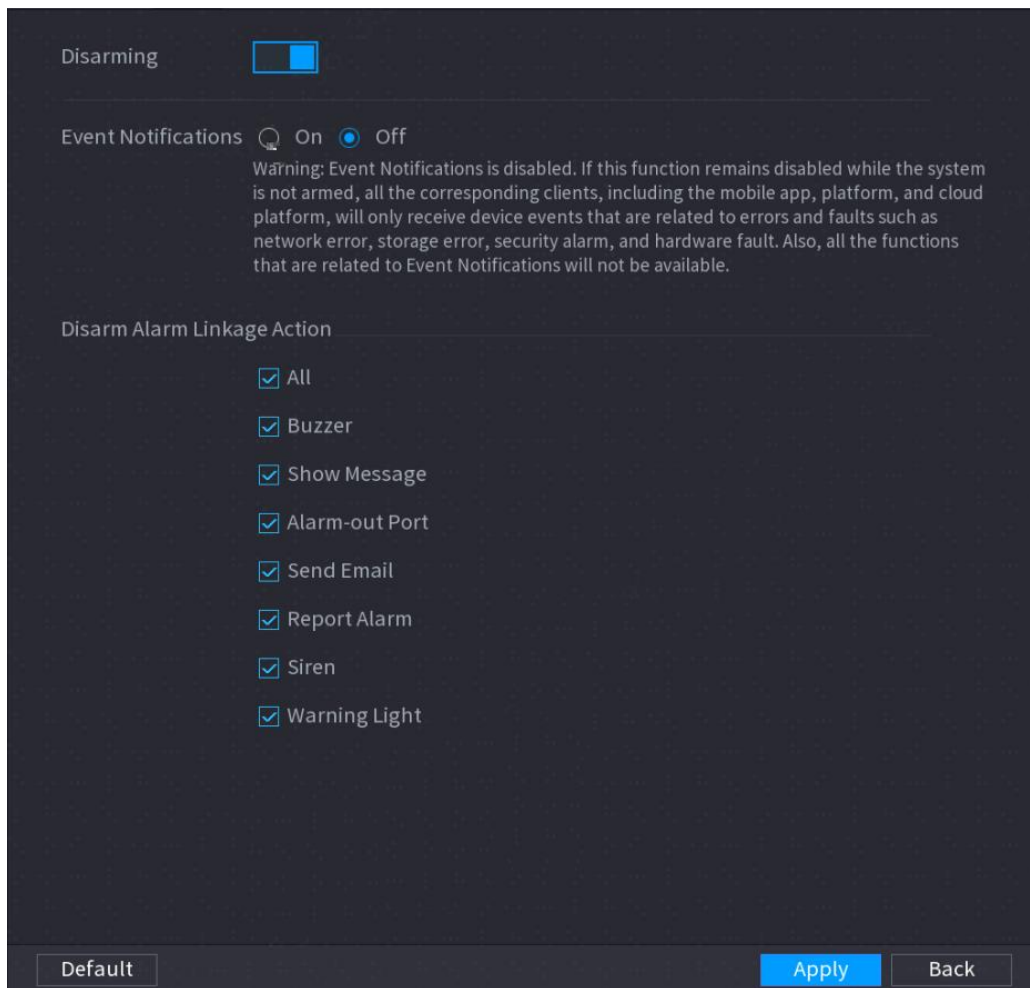
For some models, you can switch the IVS function between general mode and advanced mode in **Main Menu > AI > Parameters > IVS**. The advanced mode features higher detection accuracy than the general mode but supports fewer channels for IVS. The function might vary depending on the model.



1.4.4 Disabling event notifications in disarming

Step 1 Select Main Menu > ALARM > Disarming.

Step 2 Click  to enable disarming.



Step 3 (Optional) Select **Off** to disable event notifications.

With **Disarming** enabled, if you disable event notifications, event notifications will not be pushed to the clients including the mobile app, platform and cloud platform.


Step 4 Select alarm linkage actions to disarm.

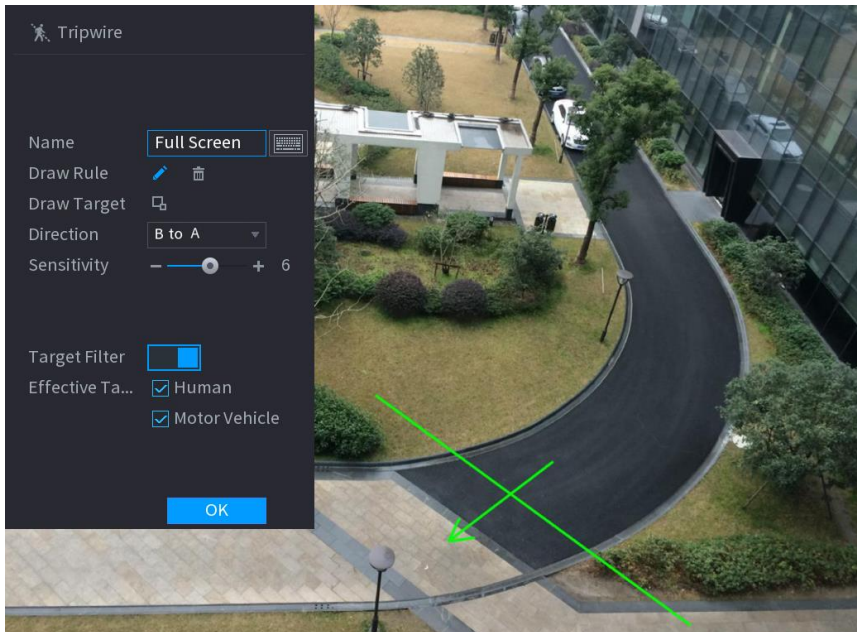


All alarm linkage actions will be disarmed when you select **All**. Click **Apply**.

1.4.5 Sensitivity for IVS settings

Step 1 Configuring Tripwire Rules or Intrusion Rules.

Step 2 In the Channel list, select the channel that you want to configure the rules for. Click .




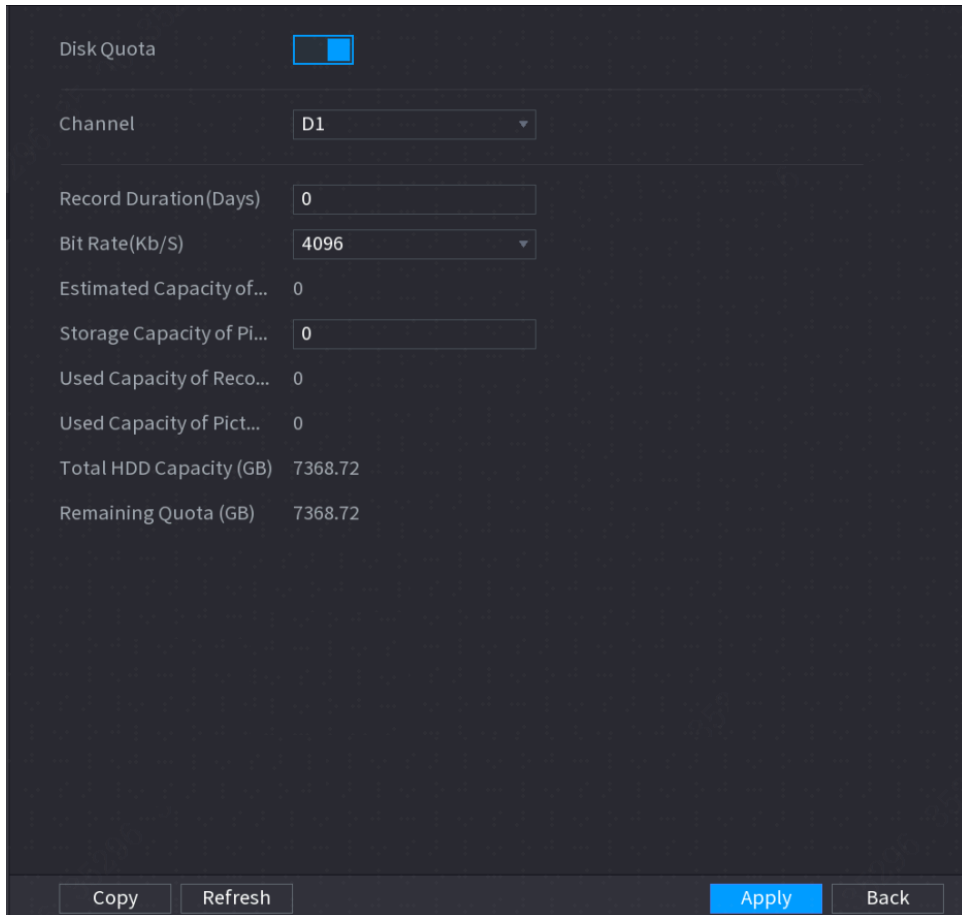
Parameter	Description
+Sensitivity	Configure the detection sensitivity. The higher the value, the easier to trigger an alarm but meanwhile the higher false alarm rate.

1.4.6 Disk quota 2.0

By configuring quota, allocate fixed storage capacity to each channel, and distribute the storage space of each channel reasonably.



- If the page displays **Disk group mode selected**, click **Switch to Quota Mode**, and then configure quota.
- You can enable either disk group mode or quota mode. The system prompts to restart the device each time when you switch the mode.
Select Main Menu > STORAGE > Disk Quota.
Configure the disk quota.
- For one-HDD devices, click , select a channel and then configure the parameters including recording duration, bit rate, storage capacity of pictures.



Disk Quota	<input checked="" type="checkbox"/>
Channel	D1
Record Duration(Days)	0
Bit Rate(Kb/S)	4096
Estimated Capacity of...	0
Storage Capacity of Pi...	0
Used Capacity of Reco...	0
Used Capacity of Pict...	0
Total HDD Capacity (GB)	7368.72
Remaining Quota (GB)	7368.72

Copy Refresh Apply Back

- For devices that support 2 or more HDDs, you can switch the quota mode between version 1 and version 2.
 - ◇ **V1:** Select a channel and then configure the disk quota for each disk.
 - ◇ **V2:** Select a channel and then configure the parameters including recording duration, bit rate, storage capacity of pictures.

Disk quota mode selected.

Version V1 V2(Recommended)

Channel

Disk	Disk Quota	Free Space	Disk	Disk Quota	Free Space
SATA1	<input type="text" value="25%"/>	75%	SATA2	<input type="text" value="25%"/>	25%

Disk quota mode selected.

Version V1 V2(Recommended)

Channel

Record Duration(Days)	<input type="text" value="1"/>
Bit Rate(Kb/S)	<input type="text" value="1024"/>
Estimated Capacity of...	10.55
Storage Capacity of Pi...	<input type="text" value="1"/>
Used Capacity of Reco...	0.16
Used Capacity of Pict...	0.01
Total HDD Capacity (GB)	2048.37
Remaining Quota (GB)	2036.82

There are channels with no allocated quotas. Videos captured by these channels will be stored in disks with no allocated quotas.

Click **Apply**.

1.4.7 Software security baseline 2.2

1、 Select Main Menu > ACCOUNT > User. Click **Add**.

Configure the settings for the parameters of adding a user account.

Parameter	Description
+Password Expires in	Set the password validity period.

Step 3

2、 Select Main Menu > INFO > LOG.

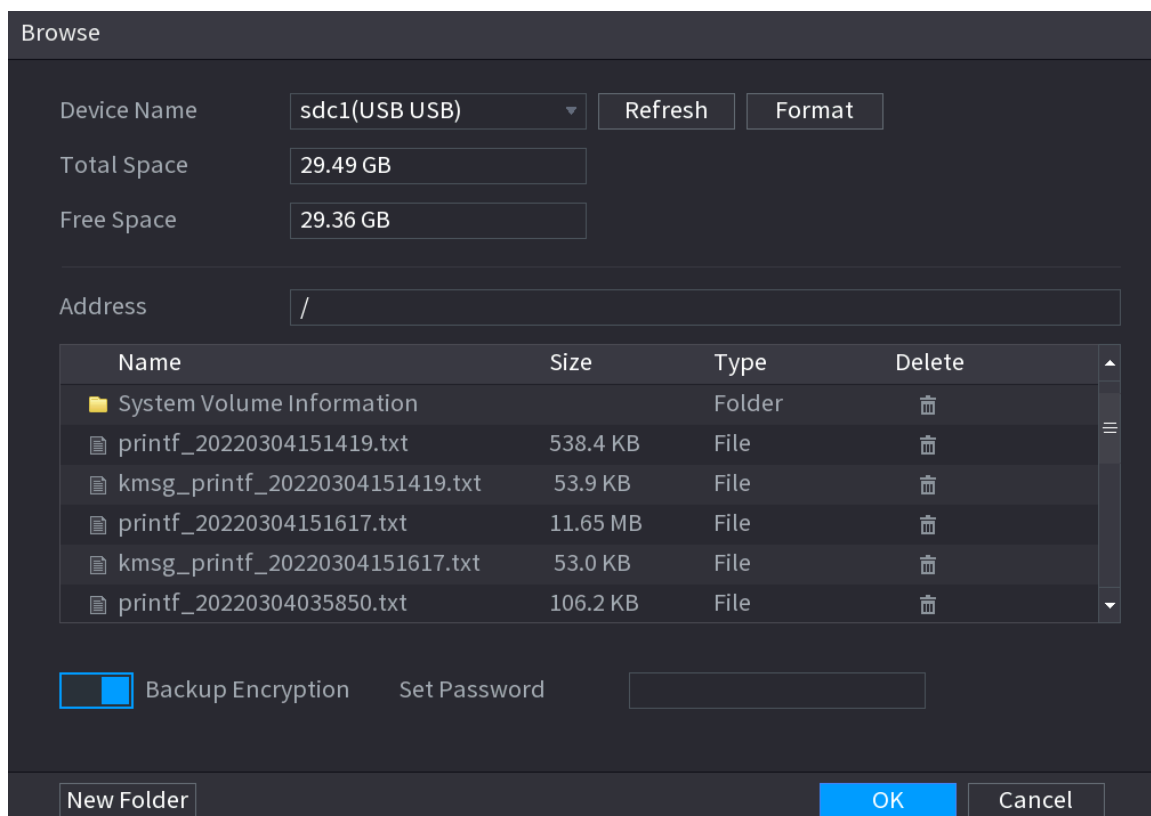
In the Type list, select the log type that you want to view (System, Config, Storage, Record, Account, Clear, Playback, and Connection) or select All to view all logs.

In the **Start Time** box and **End Time** box, enter the time period to search, and then click **Search**.

The search results are displayed.



- Click **Details** or double-click the log that you want to view, the **Detailed Information** page is displayed. Click **Next** or **Previous** to view more log information.
- Click **Backup** to back up the logs into the USB storage device. You can enable **Backup Encryption** and then set a password. The password is required to open the exported file.
- Click **Clear** to remove all logs.



1.5 Fixed Bugs

This version fixes some bugs, improves the product performance on the basis of the last version.

1.6 Compatibility

This series uses the new base line version of V4.001.0000005.0, compatible with previous versions. After updating to the new baseline version from previous baseline (V4.001.0000003.1 or earlier), users cannot roll back to versions of previous baseline.

1.7 Software Environment

Category	Model	Version
Baseline software	NETKB5000	General_NKB5000_MultiLang_V3.212.0000001.2.R.210611.BIN
	DSS	General_DSS-Client_Win64_IS_V8.001.0000000.0.R.20220430.exe
	NetSDK	General_NetSDK_Eng_Win32_IS_V3.055.0000000.0.R.210524.7z
	ConfigTool	General_ConfigTool_ChnEng_V5.000.00AT002.0.R.20220622
Decoder		General_NVD0405DH-4K_Chn_P_V3.200.0002.1.R.20180116.zip
Player		V4.001.0000004.0
Cell phone		Android: Gdmss plus V1.99.100
		Iphone: Idmss plus V1.99.100

1.8 Pending Issues

N/A

1.9 Update Guide

- The update mode includes ConfigTool, web and USB device. Please refer to the update manual for detailed information.
- During the update process, some functions are not available, such as record and network live view. After update and restart process, the device returns to normal working status.
- The previous device settings remain the same.
- During the update process, do not shut down the device or unplug the power cord. Otherwise, the device might malfunction and cannot boot up.

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