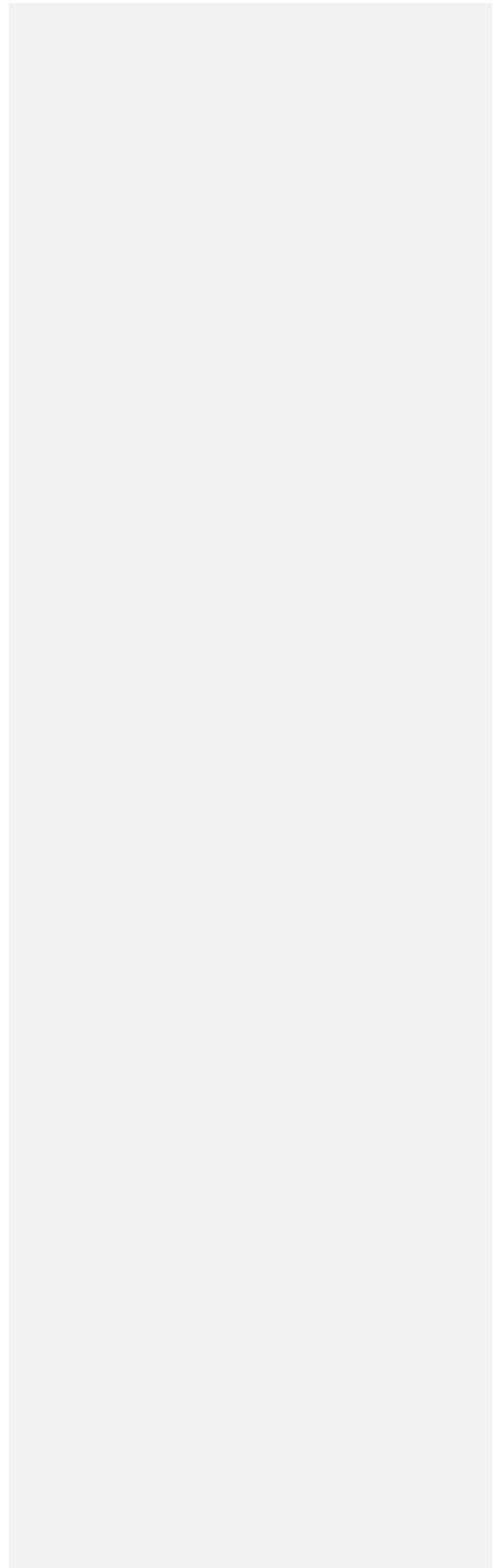


GXVR System Setting



System Configurations

Please read the following notes prior to using your Device.

NOTE

- The interfaces in the Manual are used for introducing the operations and only for reference. The actual interface might be different dependent on the model you purchased. If there is inconsistency between the Manual and the actual product, the actual product shall govern.
- The Manual is a general document for introducing the product, so there might be some functions described for the Device in the Manual not apply to the model you purchased.
- Conventions for mouse operations on a menu.
 - ◇ Click: On the menu, left-click the mouse once on an option to enter the option setting.
 - ◇ Right-click: On any interface, right-click the mouse once to return to the previous level.

Initial Settings

Booting up



CAUTION

- Ensure the input voltage corresponds to the power requirement of the Device. Power on the Device after the power cable is properly connected.
- To protect the Device, please connect the Device with the power cable first, and then connect to the power source.

Step 1 Connect the Device to the monitor.

Step 2 Plug in the power cable to the Device.

Step 3 Press the power button to turn on the Device. The power indicator light is on.

On the connected monitor, the live view screen is displayed by default. If you turn on the Device during the time period that is configured for recording, the system starts recording after it is turned on, and you will see the icon indicating recording status is working in the specific channels.

Initializing the Device

When booting up for the first time, you need to configure the password information for **admin** (by default).



NOTE

To secure the Device, it is strongly recommended for you to properly keep the password for admin and modify it regularly.

Step 1 Turn on the Device.

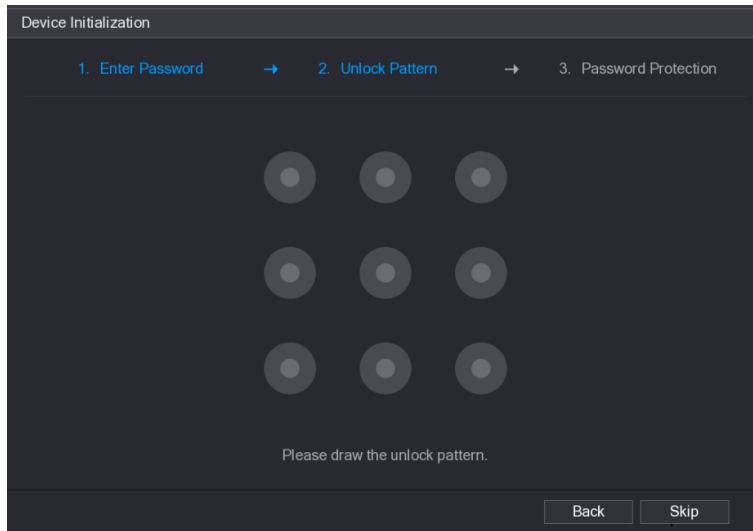
The **Device Initialization** interface is displayed.

Step 2 Configure the password information for admin.

Parameter	Description
User	By default, the user is admin .
Password	In the Password box, enter the password for admin.
Confirm Password	The new password can be set from 8 characters through 32 characters and contain at least two types from number, letter and special characters (excluding "", "", ":", "." and "&").
Prompt Question	In the Prompt Question box, enter the information that can remind you of the password.  NOTE On the login interface, click  , the prompt will display to help you find back the password.

Step 3 Click **Next**.

The unlock pattern setting interface is displayed.

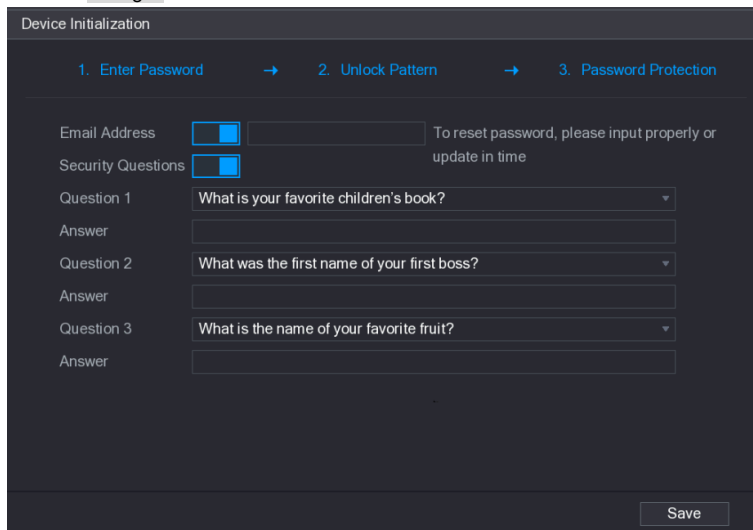


Step 4 Draw a unlock pattern.

After the setting is completed, the password protection settings interface is displayed.

NOTE

- The pattern that you want to set must cross at least four points.
- If you do not want to configure the unlock pattern, click **Skip**.
- Once you have configured the unlock pattern, the system will require the unlock pattern as the default login method. If you skip this setting, enter the password for login.




Step 5 Configure the protection parameters for password.

After configuration, if you forgot the password for admin user, you can reset the password through the reserved email address or security questions.

If you do not want to configure the settings, disable the email address and security questions functions on the interface.

Password Protection Mode	Description
Email Address	Enter the reserved email address. In the Email Address box, enter an email address for password reset. In case you forgot password, enter the security code that you will get from this reserved email address to reset the password of admin.
Security Questions	Configure the security questions and answers. In case you forgot password, enter the answers to the questions can make you reset the password.

 **NOTE**
If you want to configure the email or security questions function later or you want to change the configurations, select **Main Menu > ACCOUNT > USER**.

Step 6 Click **Save** to complete the settings.

The **End-User License Agreement** interface is displayed.

Step 7 Select the **I have read and agree to all terms** check box.

Step 8 Click **Next**.

The **Startup Wizard** interface is displayed.

Resetting Password

You can reset the password through the QR code or the security questions.

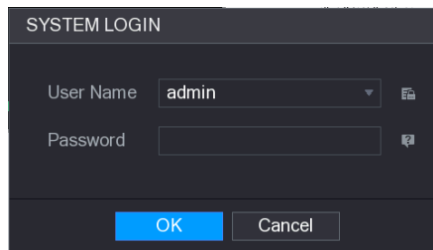
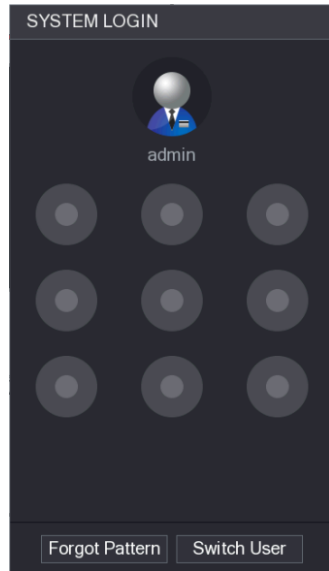
- To reset through the QR code, make sure the Enable check box is selected in **Main Menu > SYSTEM > SECURITY > Password Reset**.
- To reset through the security questions, make sure the security questions is configured.

Step 1 Enter the login interface.

- If you have configured unlock pattern, the unlock pattern login interface is displayed.
- If you did not configure unlock pattern, the password login interface is displayed.

 **NOTE**

On the unlock pattern login interface, click **Switch User** to login; or on the password login interface, in the **User Name** list, select other users to login.



Step 2 Click .

- If you did not set the reserved email address, the email entering interface is displayed. Enter the email address, and then click **Next**, the **Reset the password** interface is displayed.

- If you have set the reserved email address, the **Reset the password** interface is displayed.

Reset the password

Reset Type

Email Address To reset password, please input properly or update in time

Next Cancel

Reset the password

Reset Type

SN: 00000000000000000000

Scan the QR code on the actual interface

Note(For admin only):
Please use an APP to scan the left QR code to get special strings. And then send the strings to support_gpwd@htmicrochip.com.

The security code will be delivered to 2***@qq.com.

Security code

Next Cancel


Step 3 Rest the password.

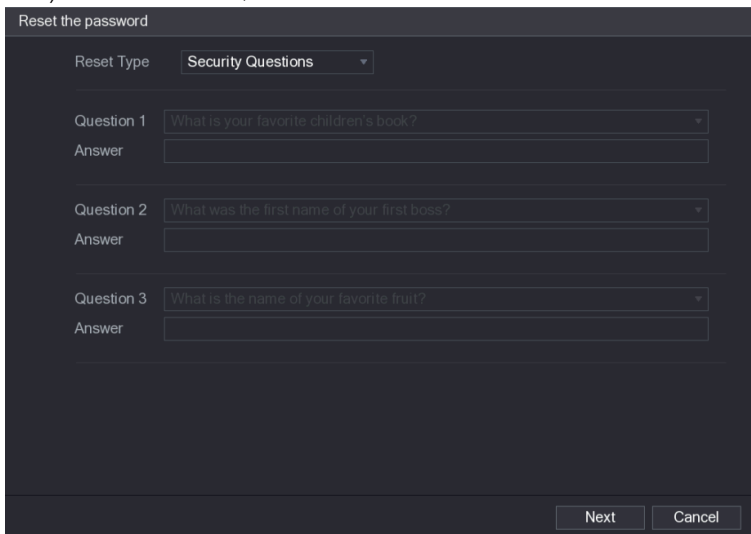
- QR code
Follow the onscreen instructions to get the security code in your reserved email address. In the **Security code** box, enter the security code.



- You are given the limited times to get the security code by scanning the QR code within 24 hours. Please operate carefully.

- Please use the security code received in your email box to reset the password within 24 hours; otherwise the security code becomes invalid.
 - Security questions
- 1) On the **Reset the password** interface as shown, in the **Reset Type** list, select **Security Questions**, the Security Questions interface is displayed.

 **NOTE**
If you did not configure the security questions before, in the **Reset Type** list, there will be no **Security Questions**.
 - 2) In the **Answer** box, enter the correct answers.



Reset the password

Reset Type Security Questions

Question 1 What is your favorite children's book?

Answer

Question 2 What was the first name of your first boss?

Answer

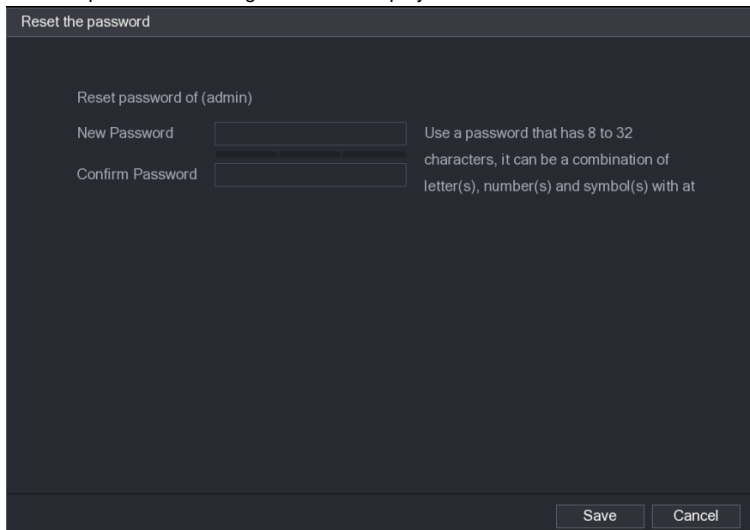
Question 3 What is the name of your favorite fruit?

Answer

Next Cancel

Step 4 Click **Next**.

The new password resetting interface is displayed.



Reset the password

Reset password of (admin)

New Password Use a password that has 8 to 32 characters, it can be a combination of letter(s), number(s) and symbol(s) with at

Confirm Password

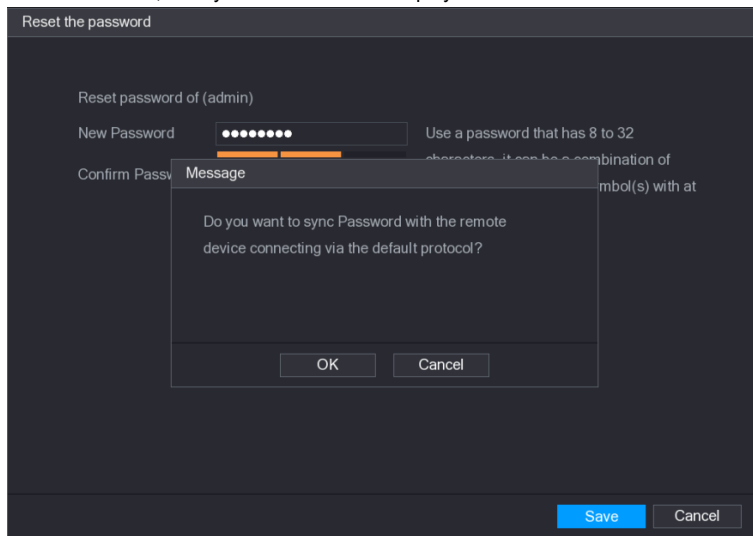
Save Cancel

Step 5 In the **New Password** box, enter the new password and enter it again in the **Confirm Password** box.

Step 6 Click **Save**. The password resetting is started.
After resetting is completed, a pop-up message is displayed.

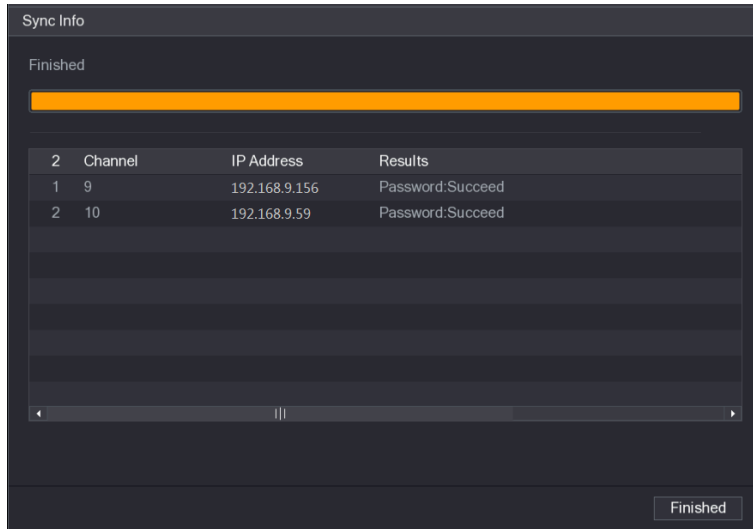
Step 7 Click **OK**.
A pop-up message is displayed asking if you want to sync the password with the remote devices.

- Click **Cancel**, the resetting is finished.
- Click **OK**, the Sync Info interface is displayed.



 **NOTE**

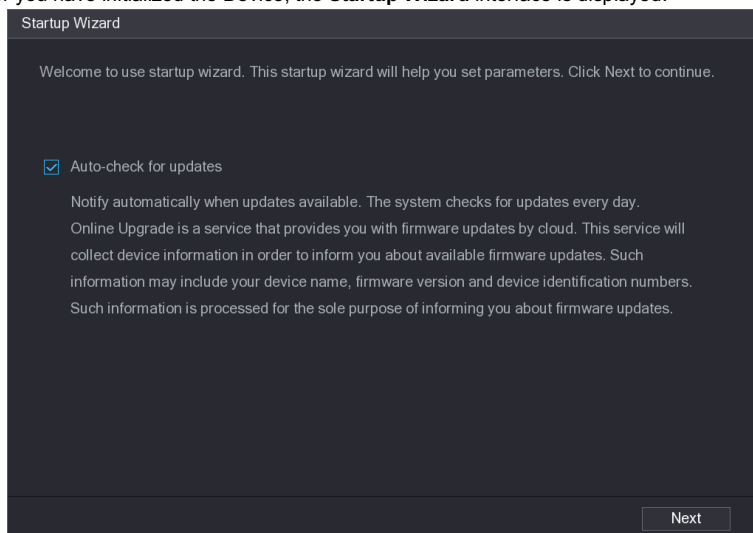
This message appears only when there are digital channels instead of complete analog channels.



Setting Up with the Startup Wizard

Entering Startup Wizard

The Startup Wizard helps you configure the basic settings to set up the Device.
After you have initialized the Device, the **Startup Wizard** interface is displayed.



NOTE

If you select the **Auto-check for updates** check box, the system will notify you automatically when updates are available.

Configuring General Settings

You can configure the general settings for the Device such as Device name, language, and settings for instant playback.

You can also configure general settings by selecting **Main Menu > SYSTEM > GENERAL > General**.

Step 1 On the **Startup Wizard** interface, click **Next**.

The **General** interface is displayed.

Step 2 Configure the general settings parameters.

Parameter	Description
Device Name	In the Device Name box, enter the Device name.
Device No.	In the Device No. box, enter a number for the Device.
Language	In the Language list, select a language for the Device system.
Video Standard	In the Video Standard list, select PAL or NTSC according to your actual situation.
Instant Play (Min.)	In the Instant Play box, enter the time length for playing back the recorded video. The value ranges from 5 to 60. On the live view control bar, click the instant playback button to play back the recorded video within the configured time.
Auto Logout (Min.)	In the Auto Logout box, enter the standby time for the Device. The Device automatically logs out when it is not working for the configured time period. You need to login the Device again. The value ranges from 0 to 60. 0 indicates there is not standby time for the Device. Click Monitor Channel(s) when logout . You can select the channels that you want to continue monitoring when you logged out.

Parameter	Description
Navigation Bar	Enable the navigation bar. When you click on the live view screen, the navigation bar is displayed.
Mouse Sensitivity	Adjust the speed of double-click by moving the slider. The bigger the value is, the faster the double-clicking speed must be.

Configuring Date and Time Settings


You can configure the system time, choose the time zone, set the daylight saving time, and enable the NTP server.

You can also configure date and time settings by selecting **Main Menu > SYSTEM > GENERAL > Date&Time**.

Step 1 After you have configured the general settings, on the **General** interface, click **Next**.

The **Date&Time** interface is displayed.

Step 2 Configure the settings for date and time parameters.

Parameter	Description
System Time	In the System Time box, enter time for the system. Click the time zone list, you can select a time zone for the system, and the time in adjust automatically.  CAUTION Do not change the system time randomly; otherwise the recorded video cannot be searched. It is recommended to avoid the recoding period or stop recording first before you change the system time.
Date Format	In the Date Format list, select a date format for the system.
Date Separator	In the Date Separator list, select a separator style for the date.

Parameter	Description
Time Format	In the Time Format list, select 12-HOUR or 24-HOUR for the time display style.
DST	Enable the Daylight Saving Time function. Click Week or click Date .
Start Time	Configure the start time and end time for the DST.
End Time	
NTP	Enable the NTP function to sync the Device time with the NTP server.
Server	In the Server box, enter the IP address or domain name of the corresponding NTP server. Click Manual Update , the Device starts syncing with the server immediately.
Port	The system supports TCP protocol only and the default setting is 123.
Interval (Min.)	In the Interval box, enter the amount of time that you want the Device to sync time with the NTP server. The value ranges from 0 to 65535.

Configuring P2P Settings

You can add the Device into your cell phone client or the platform to manage.

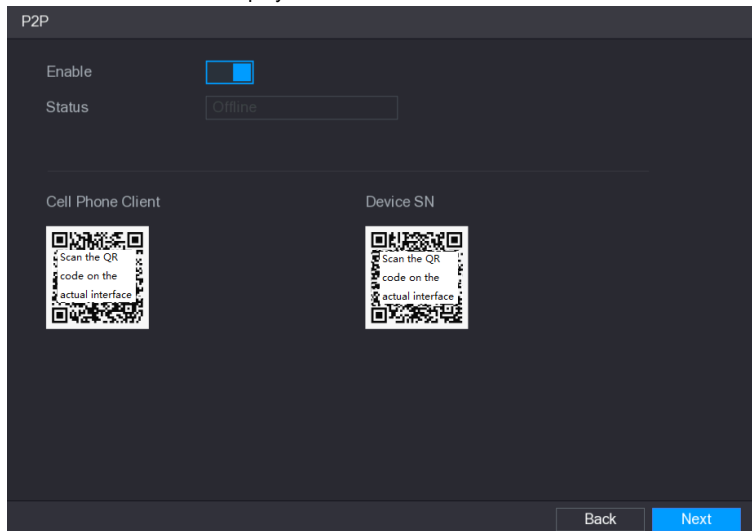
You can also configure P2P function by selecting **Main Menu > NETWORK > P2P**.

 **NOTE**

Make sure the DVR is connected into the Internet, and if yes, in the **Status** box of the P2P interface, it shows **Online**.

Step 1 After you have configured the network settings, on the **NETWORK** interface, click **Next**.

The **P2P** interface is displayed.




Step 2 Enable the P2P function.

Step 3 Click **Apply**.

You can start adding the device.

- Cell Phone Client: Use your mobile phone to scan the QR code to add the device into the Cell Phone Client, and then you can start accessing the Device.
- Platform: Obtain the Device SN by scanning the QR code. Go to the P2P management platform and add the Device SN into the platform. Then you can access and manage the device in the WAN.

 NOTE

You can also enter the QR code of Cell Phone Client and Device SN by clicking  on the top right of the interfaces after you have entered the Main Menu.

To use this function, take adding device into Cell Phone Client as an example.

Live View

After you logged in the Device, the live view is displayed.

To enter the live view screen from other interfaces, click  on the top right of the screen.








Live View Screen

You can view the live video from the connected cameras through each channel on the screen.

- By default, the system time, channel name and channel number are displayed on each channel window. This setting can be configured by selecting **Main Menu > CAMERA > OVERLAY**.
- The figure in the bottom right corner represents channel number. If the channel position is changed or the channel name is modified, you can recognize the channel number by this figure and then perform the operations such as record query and playback.

For the icons displayed on each channel.

Icon	Function
	Indicates recording status. This icon displays when the video is being recorded.
	This icon displays when the motion detection occurs in the scene.
	This icon displays when the video loss is detected.
	This icon displays when the channel monitoring is locked.

 TIPS

To switch the position of two channels, point to one of the two channels, and then drag the window to the other channel.

Live View Control bar

The live view control bar provides you access to perform the operations such as playback, zoom, real-time backup, manual snapshot, voice talk, adding remote devices, and streams switch.

When you move the pointer to the top middle position of a channel window, the live view control bar is displayed.

 NOTE


If there is not operation for six seconds after the control bar is displayed, the control bar hides automatically.



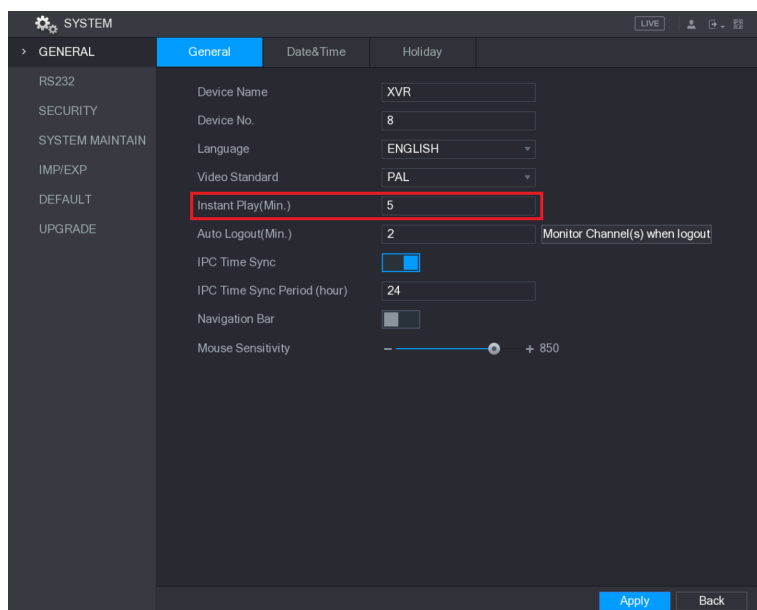
No.	Function	No.	Function
1	Instant Play	4	Manual Snap
2	Digital Zoom	5	Mute
3	Real-time Backup		

Instant Playback

You can play back the previous five minutes to sixty minutes of the recorded video.



By clicking , the instant playback interface is displayed. The instant playback has the following features:

- Move the slider to choose the time you want to start playing.
- Play, pause and close playback.
- The information such as channel name and recording status icon are shielded during instant playback and will not display until exited.
- During playback, screen split layout switch is not allowed.
- To change the playback time, select **Main Menu > SYSTEM > GENERAL**, in the **Instant Play** box, enter the time you want to play back.



Digital Zoom

You can enlarge a specific area of the image to view the details by either of the following two ways.


- Click , the icon switches to . Hold down the left mouse button to select the area you want to enlarge. The area is enlarged after the left mouse button is released.
- Point to the center that you want to enlarge, rotate the wheel button to enlarge the area.

 NOTE

- For some models, when the image is enlarged in the first way described previously, the selected area is zoomed proportionally according to the window.
- When the image is in the enlarged status, you can drag the image toward any direction to view the other enlarged areas.
- Right-click on the enlarged image to return the original status.


Real-time Backup

You can record the video of any channel and save the clip into a USB storage device.

By clicking , the recording is started. To stop recording, click this icon again. The clip is automatically saved into the connected USB storage device.

Manual Snapshot


You can take one to five snapshots of the video and save into a USB storage device.

By clicking , you can take snapshots. The snapshots are automatically saved into the connected USB storage device. You can view the snapshots on your PC.

 NOTE

To change the quantity of snapshots, select **Main Menu > CAMERA > ENCODE > Snapshot**, in the **Manual Snap** list, select the snapshot quantity.

Mute (Analog channel only)

You can mute the video sound by clicking . This function is supported in single-channel view.

Navigation Bar

You can access the functions to perform operations through the function icons on the navigation bar. For example, you can access Main Menu and switch window split mode.

 NOTE

The navigation bar is disabled by default. It does not appear in the live view screen until it is enabled. To enable it, select **Main Menu > SYSTEM > GENERAL**, enable the Navigation Bar, and then click **Apply**.



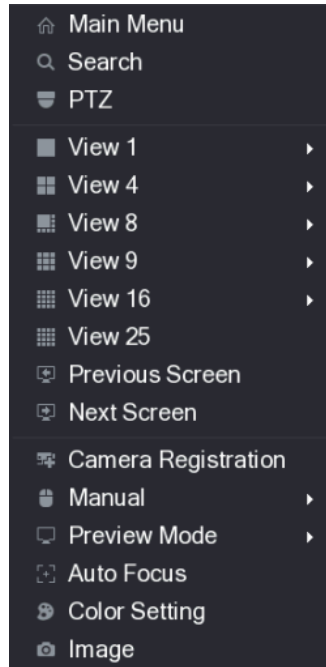
Icon	Function
	Open Main Menu .
	Expand or condense the navigation bar.
	Select view layout.
	Go to the previous screen.
	Go to the next screen.
	Enable tour function. The icon switches to
	Open the PTZ control panel.
	Open the Color Setting interface. NOTE This function is supported only in single-channel layout.
	Open the record search interface.
	Open the EVENT interface to view the device alarm status.
	Open the CHANNEL INFO interface to display the information of each channel.
	Open the CAMERA REGISTRATION interface.
	Open the NETWORK interface.
	Open the HDD MANAGER interface.
	Open the USB MANAGER interface.

Shortcut Menu

You can quickly access some function interfaces such as main menu, record search, PTZ setting, color setting and select the view split mode.

Right-click on the live view screen, the shortcut menu is displayed.

After you access any interface through shortcut menu, you can return to the previous screen by right-clicking on the current screen.



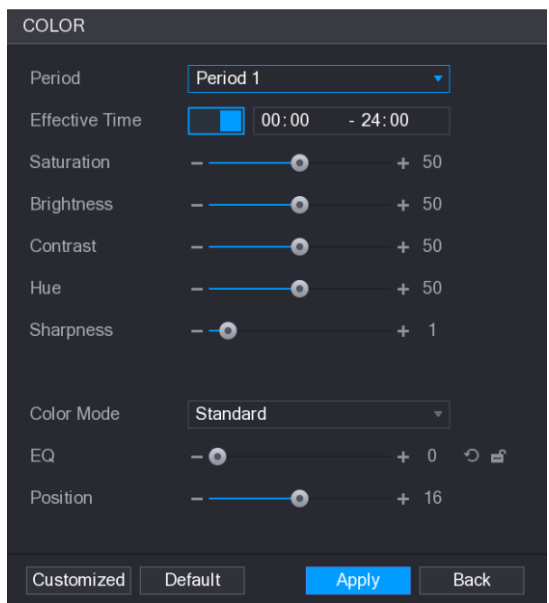
Function	Description
Main Menu	Open Main Menu interface.
Search	Open the PLAYBACK interface where you can search and play back record files.
PTZ	Open the PTZ interface.
View Layout	Configure the live view screen as a single-channel layout or multi-channel layout.
Previous Screen	Click Previous Screen to go to the previous screen. For example, if you are using 4-split mode, the first screen is displaying the channel 1-4, click Next screen , you can view channel 5-8.
Next Screen	
Camera Registration	Open the CAMERA REGISTRATION interface."
Manual	<ul style="list-style-type: none"> ● Select Record, you can configure the recording mode as Auto or Manual, or stop the recording. You can also enable or disable snapshot function ● Select Alarm Out, you can configure alarm output settings.
Preview Mode	<ul style="list-style-type: none"> ● Select General, the layout of live view screen is as default. ● Select Show Face List, the detected face snapshots are displayed in the bottom of the live view screen.
Auto Focus	Point to the channel window and right-click on it to open the shortcut menu, and then click Auto Focus . NOTE Not all cameras support this function.

Function	Description
Color Setting	Open the COLOR interface where you can adjust the video image color.
Image	Click to modify the camera properties.





Color Setting

You can adjust the video image color effect such as sharpness, brightness, and contrast. The parameters are different according to the connected camera type. Take analog channel as an example.

In the live view screen, right-click on the analog channel to see the shortcut menu, and then select **Color Setting**, the **COLOR** interface is displayed.



Parameter	Description
Period	Divide 24 hours into two periods and configure the corresponding color settings.
Effective Time	Enable the function and then set the effective time for each period.
Sharpness	Adjust the sharpness of image edge. The bigger the value is, the more obvious the image edge, and the noise is also greater. The value ranges from 1 to 15. The default value is 1.
Hue	Adjust the hue of image. The value ranges from 0 to 100. The default value is 50.

Parameter	Description
Brightness	<p>Adjust the image brightness. The value ranges from 0 to 100. The default value is 50.</p> <p>The bigger the value is, the brighter the image will become. You can adjust this value when the image as a whole looks dark or bright. However, the image is likely to become dim if the value is too big.</p> <p>The recommended range is between 40 and 60.</p>
Contrast	<p>Adjust the image contrast. The bigger the value is, the more obvious the contrast between the light area and dark area will become. You can adjust this value when the contrast is not obvious. However, if the value is too big, the dark area is likely to become darker and the light area over exposed. If the value is too small, the image is likely to become dim.</p> <p>The value ranges from 0 to 100. The default value is 50. The recommended range is between 40 and 60.</p>
Saturation	<p>Adjust the color shades. The bigger the value, the lighter the color will become. This value does not influence the general image lightness.</p> <p>The value ranges from 0 to 100. The default value is 50. The recommended range is between 40 and 60.</p>
Color Mode	<p>In the Color Mode list, you can select Standard, Soft, Bright, Colorful, Bank, Customized 1, Customized 2, Customized 3, and Customized 4.</p> <p>The sharpness, hue, brightness, contrast and saturation will adjust automatically according to the selected color mode.</p>
EQ	<p>Enhance the image effect. Adjust the effect value.</p> <ul style="list-style-type: none"> Click , image is adjusted to the optimized effect automatically. Click , the current effect setting will be locked. <p> NOTE Only HD analog channel supports this function.</p>
Position	<p>Adjust the display position of the image in the channel window. The value indicates pixel. The default value is 16.</p> <p> NOTE This function is only supported by analog channel.</p>

Parameter	Description
Customized	<p>You can customize four color modes.</p> <ol style="list-style-type: none"> 1. Click Customized. The Customized Color interface is displayed. 2. In the Color Mode list, select Customized 1, for example. Then configure the settings for sharpness, hue, brightness, contrast and saturation. If you select All, the configuration will apply to all four customized color modes. 3. Click OK. 4. On the COLOR interface, in the Color Mode list, you can select the customized color mode.

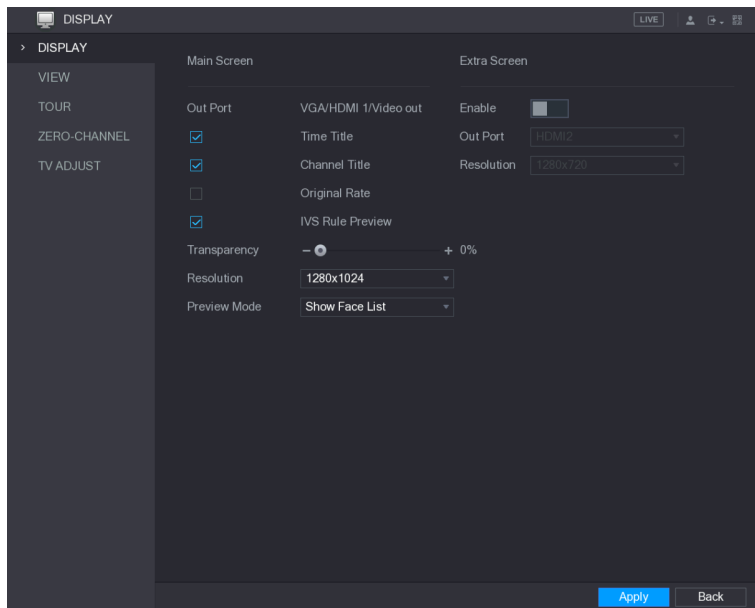
Live View Display

Configuring Display Settings

You can configure the display effect such as displaying time title and channel title, adjusting image transparency, and selecting the resolution.





Step 1 Select **Main Menu > DISPLAY > Display**.

The **DISPLAY** interface is displayed.



Step 2 Configure the settings for the display parameters.

Parameter	Description
Out Port	Indicates the main screen port.

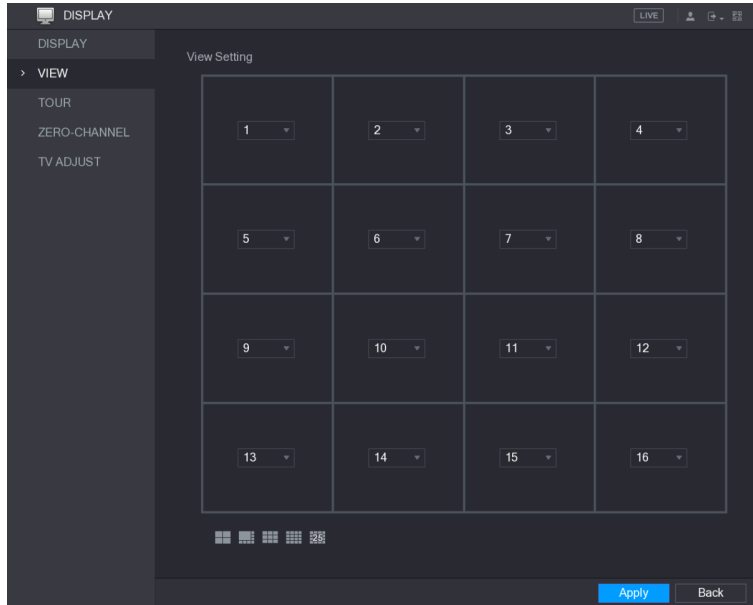
Parameter		Description
Main Screen	Time Title	Select the Time Title check box, the current system time displays in each channel window in live view screen. To hide the time, clear the check box.
	Channel Title	Select the Channel Title check box, the channel name, channel number and recording status display in each channel window in live view screen. To hide the time, clear the check box.
	Original Rate	Select the Original Rate check box, the video image displays in its actual size in the channel window.
	IVS Rule Preview	Select the IVS Rule Preview check box to enable IVS rule preview function.
	Transparency	Configure the transparency of the graphical user interface (GUI). The higher the value, the more transparent the GUI becomes.
	Resolution	Select resolution for the video. The default resolution for VGA port and HDMI port is 1280×1024.  NOTE Some of the resolution options might not be supported on the HDMI port.
	Preview Mode	<ul style="list-style-type: none"> General: No information is displayed on the channel window. Show Face List: Displays the detected face snapshots taken as a result of face detection on the bottom of the live view screen.  NOTE Not all models support this function.
Extra Screen	Enable	Enable extra screen function. After this function is enabled, you can select which port as extra screen port, and the other port automatically becomes the main screen port.
	Out Port	Select the VGA port or HDMI port as the port connected by a secondary monitor. For example, if you select HDMI port as the extra screen port, the VGA port automatically becomes the main screen port.
	Resolution	Select resolution for the video. The default resolution for VGA port and HDMI port is 1280×720.  NOTE Some of the resolution options might not be supported on the HDMI port.
 NOTE <ul style="list-style-type: none"> The main menu does not display on the extra screen. If you do not enable the extra screen function, both the VGA port and HDMI port display the same image. 		

Configuring Viewing Layout

You can configure the view layout in the live view screen.


Step 1 Select **Main Menu > DISPLAY > VIEW**.

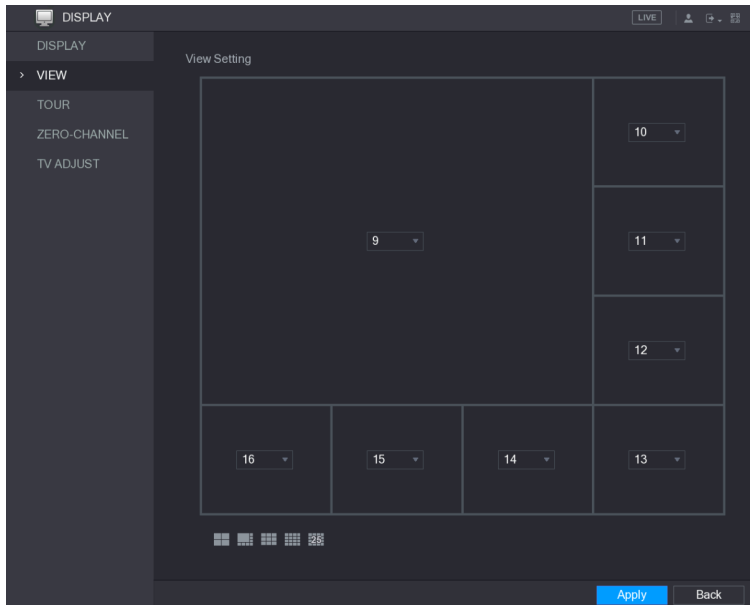
The **View Setting** interface is displayed.



Step 2 Configure the view layout by clicking the layout buttons on the bottom.



For example, click  and select **9-16**, the view layout changes immediately.

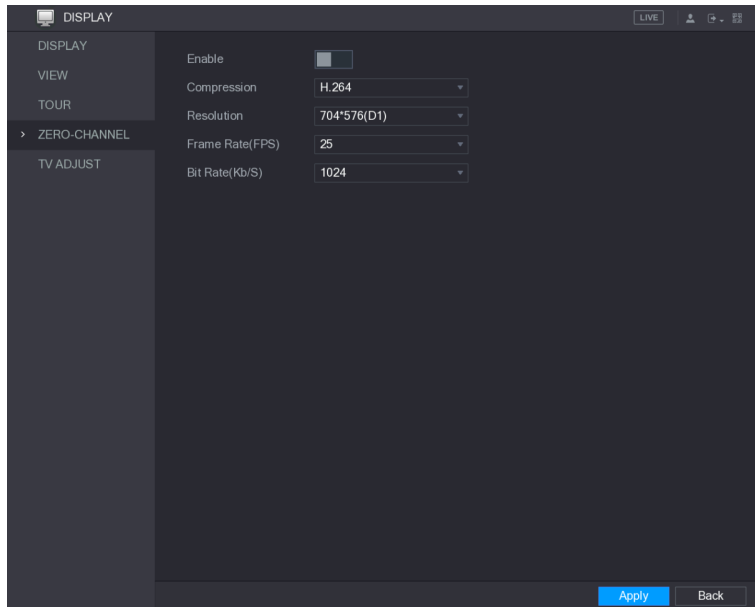


- Step 3** Adjust the position of channels if needed.
In the channel list, for example, in the channel 9 list, you can select 10, and then the channel 9 and channel 10 exchange positions.
- Step 4** Click **Apply** to complete the settings.
The live view screen displays the same layout as configured in this section.

Configuring Zero-Channel Settings

You can view several video sources on one channel on the web end.

- Step 1** Select **Main Menu > DISPLAY > ZERO-CHANNEL**.
The **ZERO-CHANNEL** interface is displayed.



Step 2 Configure the settings for the zero-channel parameters.

Parameter	Description
Enable	Enable zero-channel function.
Compression	In the Compression list, select the video compression standard according to the device capability. The default is H.264.
Resolution	In the Resolution list, select the video resolution. The default is 704×576 (D1).
Frame Rate (FPS)	Select a value between 1 and 25 for PAL standard, and between 1 and 30 for NTSC standard. The actual arrange is decided and selected dependent on the Device capability.
Bit Rate (Kb/S)	The default value is 1024Kb/S. The actual arrange is decided and selected dependent on the Device capability and frame rate.

Step 3 Click **Apply** to save the settings.

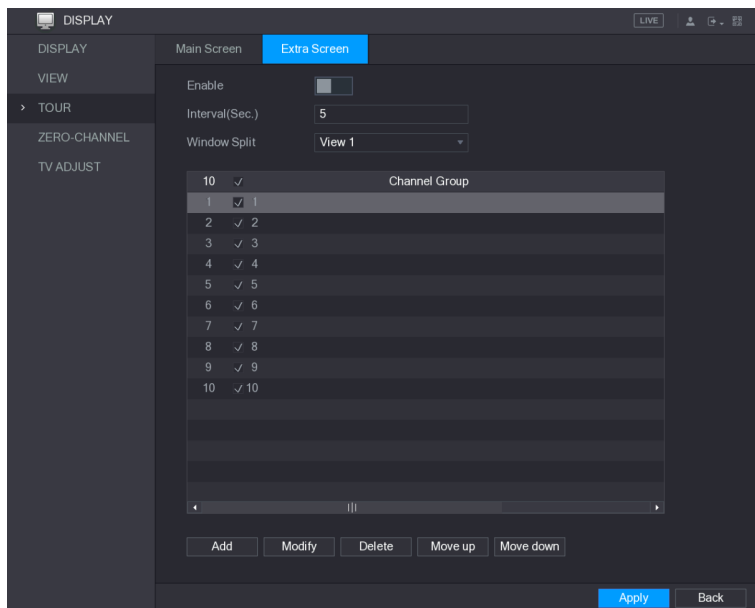
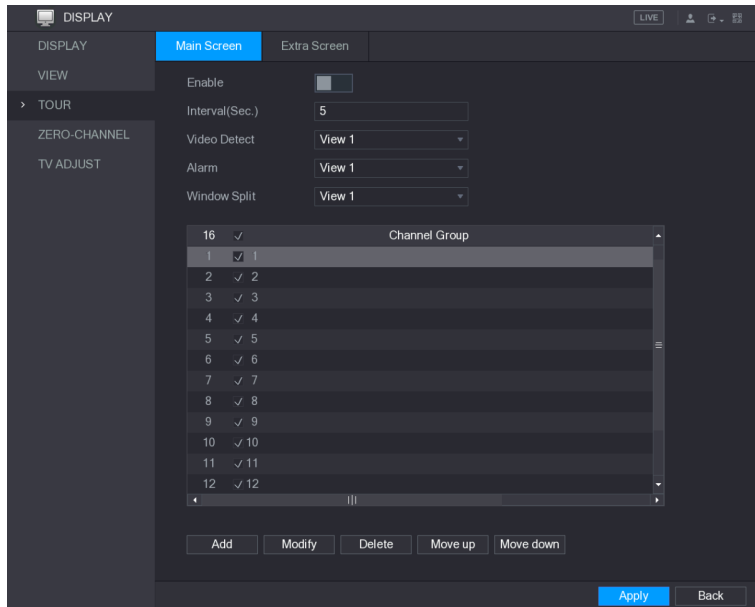
In the live interface on the web, click  to select one of the multi-channel modes, and then you can view the local video image.

Configuring Tour Settings

You can configure a tour of selected channels to repeat playing videos. The videos display in turn according to the channel group configured in tour settings. The system is playing one channel group for a certain period and then automatically changes to the next channel group.

Step 1 Select **Main Menu > DISPLAY > TOUR**.

The **TOUR** interface is displayed. There are Main Screen tab and Extra Screen tab.







Step 2 Configure the settings for the tour parameters for both Main Screen and Extra Screen.

Parameter	Description
Enable	Enable tour function.

Parameter	Description
Interval (Sec.)	Enter the amount of time that you want each channel group displays on the screen. The value ranges from 5 seconds to 120 seconds, and the default value is 5 seconds.
Video Detect, Alarm	Select the View 1 or View 8 for Motion Detect tour and Alarm Tour (system alarm events).
Window Split	In the Window Split list, select View 1 , View 4 , View 8 , or other modes that are supported by the Device.
Channel Group	<p>Display all channel groups under the current Window Split setting.</p> <ul style="list-style-type: none"> • Add a channel group: Click Add, in the pop-up Add Group channel, select the channels to form a group, and then click Save. • Delete a channel group: Select the check box of any channel group, and then click Delete. • Edit a channel group: Select the check box of any channel group and then click Modify, or double-click on the group. The Modify Channel Group dialog box is displayed. You can regroup the channels. • Click Move up or Move down to adjust the position of channel group.

Step 3 Click **Apply** to save the settings.

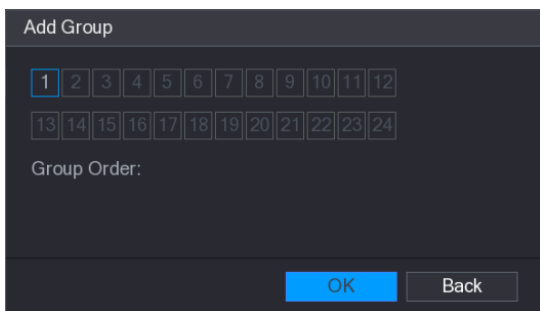
 TIPS

- On the top right of the live view screen, use the left mouse button or press Shift to switch between  (image switching is allowed) and  (image switching is not allowed) to turn on/off the tour function.
- On the navigation bar, click  to enable the tour and click  to disable it.

Adding a Channel Group

Step 1 Click **Add**.

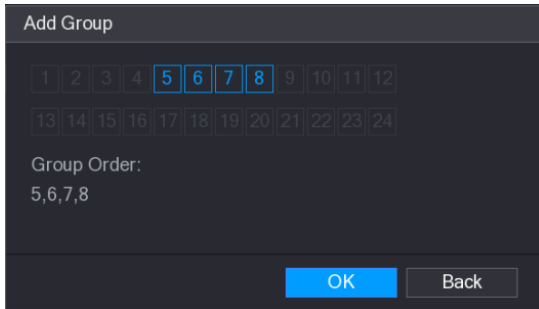
The **Add Group** interface is displayed.



Step 2 Select the channels that you want to group for tour.

 NOTE

If you want to select more than one channel, in the **Window Split** list, do not select **View 1**.

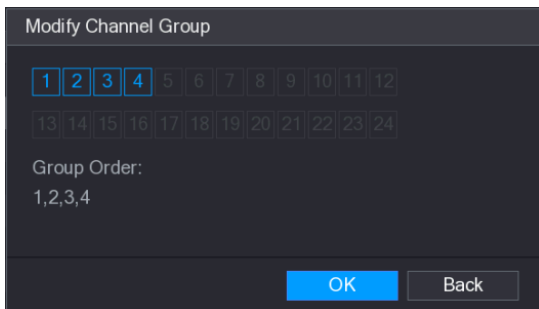


Step 3 Click **OK** to complete the settings.

Modifying a Channel Group

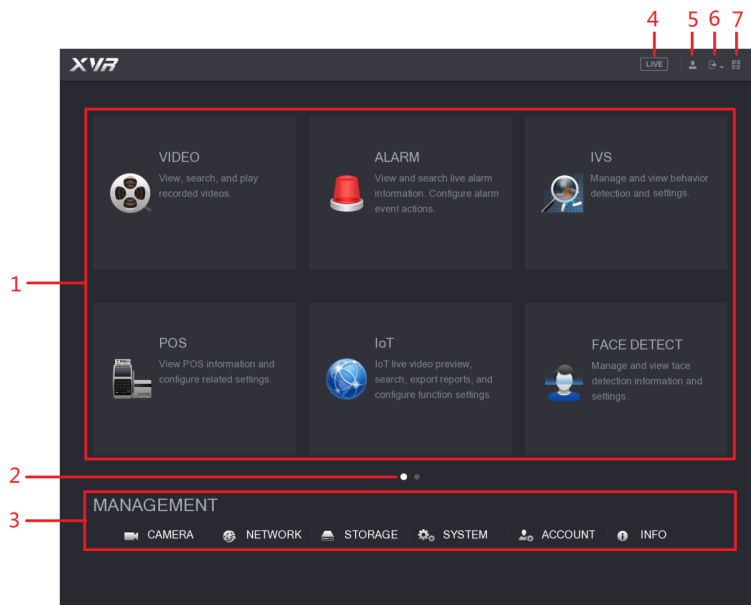
Double-click on a channel group, the **Modify Channel Group** interface is displayed.

You can modify channel group and click **OK** to complete the settings.








Entering Main Menu

Right-click on the live view screen, the shortcut menu is displayed, Click Main Menu and then login the system. The Main Menu is displayed.



No.	Icon	Description
1	Function tiles	<p>Includes eight function tiles: VIDEO, ALARM, IVS, POS, IoT, AI, BACKUP, DISPLAY, and AUDIO. Click each tile to open the configuration interface of the tile.</p> <ul style="list-style-type: none"> ● VIDEO: Search for and play back the recorded video saved on the Device. ● ALARM: Search for alarm information and configure alarm event actions. ● IVS: Configure the behavior detections by drawing rules for detecting tripwire, intrusion, abandoned objects, and missing objects. ● BACKUP: Search and back up the video files to the local PC or external storage device such as USB storage device. ● DISPLAY: Configure the display effect such as displaying content, image transparency, and resolution, and enable the zero-channel function. ● AUDIO: Manage audio files and configure the playing schedule. The audio file can be played in response to an alarm event if the voice prompts function is enabled.
2	Switch icon	<p>☐ indicates the current page of main menu. Click ☐ to switch to the next page.</p>
3	Configuration menu	<p>Includes six configurations through which you can configure camera settings, network settings, storage settings, system settings, account settings, and view information.</p>
4	Live	<p>Click LIVE to go to the live view screen.</p>

No.	Icon	Description
5		When you point to  , the current user account is displayed.
6		Click  , select Logout , Reboot , or Shutdown according to your actual situation.
7		<p>Displays Cell Phone Client and Device SN QR Code.</p> <ul style="list-style-type: none"> ● Cell Phone Client: Use your mobile phone to scan the QR code to add the device into the Cell Phone Client, and then you can start accessing the Device from your cell phone. ● Device SN: Obtain the Device SN by scanning the QR code. Go to the P2P management platform and add the Device SN into the platform. Then you can access and manage the device in the WAN.

Controlling PTZ Cameras

PTZ is a mechanical platform that carries a camera and a protective cover and performs overall control remotely. A PTZ can move in both horizontal and vertical direction to provide all-around view to the camera.

NOTE

Before operating PTZ, please assure the network connection between PTZ and the Device.

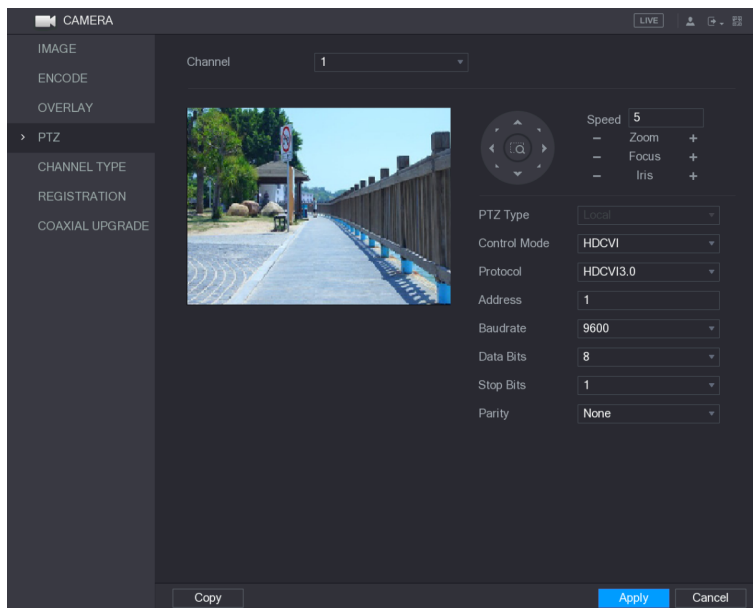
Configuring PTZ Connection Settings

You need to configure the PTZ connection settings before use.

- Local connection: RS485 Port for connecting Speed Dome or coaxial cable for connecting coaxial camera.
- Remote connection: local area network.


Step 1 Select **Main Menu > CAMERA > PTZ**.

The **PTZ** interface is displayed.



Step 2 Configure the settings for the PTZ connection parameters.

Parameter	Description
Channel	In the Channel list, select the channel that you want to connect the PTZ camera to.
PTZ Type	<ul style="list-style-type: none"> • Local: Connect through RS485 port or coaxial cable. • Remote: Connect through network by adding IP address of PTZ camera to the Device.

Parameter	Description
Control Mode	In the Control Mode list, select Serial or HDCVI . For HDCVI series product, please select HDCVI. The control signal is sent to the PTZ through the coaxial cable. For the serial mode, the control signal is sent to the PTZ through the RS485 port.
Protocol	In the Protocol list, select the protocol for the PTZ camera, for example, select HDCVI3.0 .
Address	In the Address box, enter the address for PTZ camera. The default is 1.  NOTE The entered address must be the same with the address configured on the PTZ camera; otherwise the PTZ camera cannot be controlled from the Device.
Baudrate	In the Baudrate list, select the baudrate for the PTZ camera. The default is 9600.
Data Bits	The default is 8.
Stop Bits	The default is 1.
Parity	The default is NONE.

Step 3 Click **Apply** to save the settings.

 **NOTE**

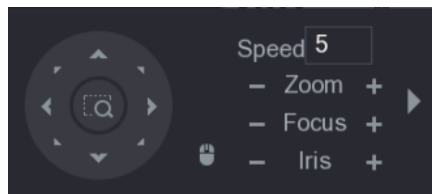
Click **Copy** to copy the settings to other channels.

Working with PTZ Control Panel

PTZ control panel performs the operations such as directing camera in eight directions, adjusting zoom, focus and iris settings, and quick positioning.

Basic PTZ Control Panel





Right-click on the live view screen and then select **PTZ**. The PTZ control panel is displayed.



NOTE

The functions with buttons in gray are not supported by the system.

Parameter	Description
Speed	Controls the movement speed. The bigger the value is, the faster the movement will be.
Zoom	: Wide angle. : Long shot.
Focus	: Zoom in. : Zoom out.
Iris	: Small. : Large.
PTZ movement	Supports eight directions. Fast positioning button. <ul style="list-style-type: none"> Positioning: Click to enter the fast positioning screen, and then click anywhere on the live view screen, the PTZ will turn to this point and move it to the middle of the screen. Zooming: On the fast positioning screen, drag to draw a square on the view. The square supports zooming. <ul style="list-style-type: none"> ◇ Dragging upward is to zoom out, and dragging downward is to zoom in. ◇ The smaller the square, the larger the zoom effect. NOTE Not all models support this function and can only be controlled through mouse operations.

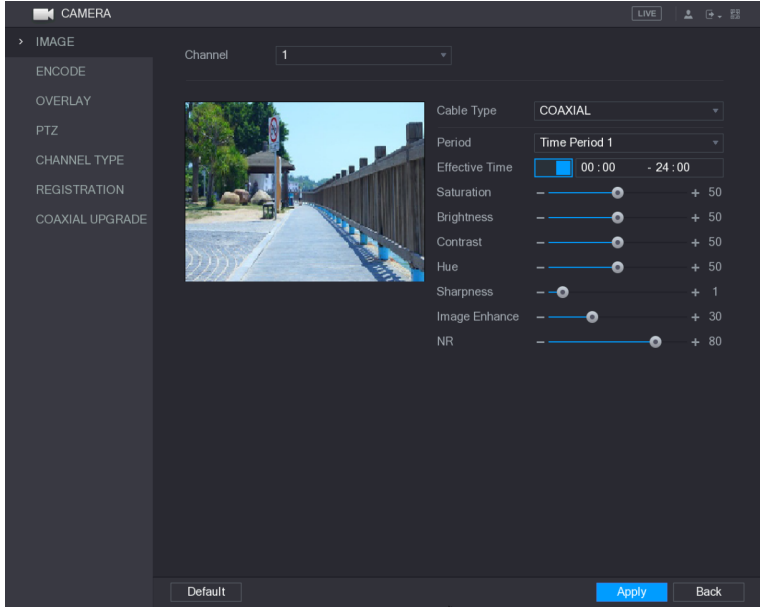
Parameter	Description
	Click  , you can control the four directions (left, right, up, and down) PTZ movement through mouse operation.
	Click  to open the expanded PTZ control panel.

Configuring Camera Settings

Configuring Image Settings

You can configure the image settings such as saturation, contrast, brightness, sharpness for each connected camera.

- Step 1** Select **Main Menu > CAMERA > IMAGE**.
The **IMAGE** interface is displayed.



- Step 2** Configure the settings for the image parameters.
On the digital channel interface, click **More Setting** to display more parameters.

Parameter	Description
Channel	In the Channel list, select the channel that you want to configure.
Cable Type	In the Cable Type list, select the cable type that the camera uses.
Period	In the Period list, select a time period for the image settings. The image settings will be only used during the selected period.

Parameter	Description
Effective Time	Enable the effective function. In the Effective Time box, enter the start time and end time for the period you selected.
Saturation	Adjusts the color shades. The bigger the value, the lighter the color will become. This value does not influence the general image lightness. The value ranges from 0 to 100. The default value is 50. The recommended range is between 40 and 60.
Contrast	Adjusts the image contrast. The bigger the value is, the more obvious the contrast between the light area and dark area will become. You can adjust this value when the contrast is not obvious. However, if the value is too big, the dark area is likely to become darker and the light area over exposed. If the value is too small, the image is likely to become dim. The value ranges from 0 to 100. The default value is 50. The recommended range is between 40 and 60.
Brightness	Adjusts the image brightness. The bigger the value is, the brighter the image will become. You can adjust this value when the image as a whole looks dark or bright. However, the image is likely to become dim if the value is too big. The value ranges from 0 to 100. The default value is 50. The recommended range is between 40 and 60.
Hue	Adjusts the hue of image. The value ranges from 0 to 100. The default value is 50.
Sharpness	Adjusts the sharpness of image edge. The bigger the value is, the more obvious the image edge, and the noise is also greater. The value ranges from 1 to 15. The default value is 1.
Image Enhance	Adjusts the image definition. The bigger the value is, the clearer the image will become, but there will be more noises.
NR	Reduces the noises from image. The bigger the value is, the better the image will become.
Config File	In the Config File list, select Day , Night , Normal , or Switch By Period . The system configures the parameters correspondingly. <ul style="list-style-type: none"> Day: Apply the configuration during daytime. Night: Apply the configuration during nighttime. Normal: Apply the configuration during day and night. Switch by Period: If you select this option, you need to configure the sunrise time and sunset time where you are located.
Mirror	Enable the function, the left and right side of the video image will be switched. It is disabled by default.
3D Denoise	This function specially applies to the image which frame rate is configured as 2 at least. It reduces the noises by making use of the information between two frames. The bigger the value is, the better the effect.

Commented [c1]:

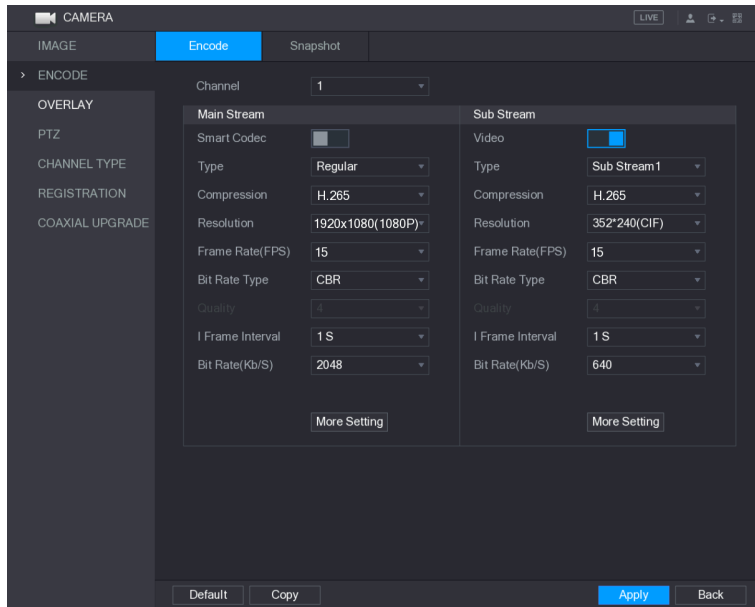
Parameter	Description
Flip	In the Flip list, you can select 180° to change the video image display. By default, the setting is No Flip .
Light	In the Light list, select Close or Enable to use the backlight compensation or not.
Scene Mode	Configure the white balance to adjust the general hue of the image. The default setting is Auto . <ul style="list-style-type: none"> ● Auto: Automatically apply white balance to different colors to make the image color display normally. ● Sunny: Apply the threshold value to sunny environment. ● Night: Apply the threshold value to night. ● Customized: Manually adjust the Red Gain and Blue Gain values.
Day & Night	Configure the color and black&white mode of the image. This setting is not affected by the configuration files. The default setting is Auto . <ul style="list-style-type: none"> ● Color: The camera outputs color image only. ● Auto: Depends on the camera, such as overall brightness and whether there is an IR light, either color image or black&white image is output. ● B/W: The camera outputs Black and white image only. ● By Time: The camera outputs image according to the configure the sunrise time and sunset time.

Step 3 Click **Apply** to complete the settings.

Commented [c2]:

Configuring Encode Settings

Step 1 Select **Main Menu > CAMERA > ENCODE > Encode**.
The **Encode** interface is displayed.



Commented [c3]:

Step 2 Configure the settings for the main/sub streams parameters.

Parameter	Description
Channel	In the Channel list, select the channel that you want to configure the settings for.
Smart Codec	Enable the smart codec function. This function can reduce the video bit stream for non-important recorded video to maximize the storage space.
Type	<ul style="list-style-type: none"> Main Stream: In the Type list, select General, MD (Motion Detect), or Alarm. Sub Stream: This setting is not configurable.
Compression	In the Compression list, select the encode mode. <ul style="list-style-type: none"> H.265: Main profile encoding. H.264H: High profile encoding. Low bit stream with high definition. This setting is recommended. H.264: General profile encoding. H.264B: Baseline profile encoding. This setting requires higher bit stream compared with other settings for the same definition.
Resolution	In the Resolution list, select resolution for the video. The maximum video resolution might be different dependent on your device model.

Commented [c4]:

Parameter	Description
Frame Rate (FPS)	Configure the frames per second for the video. The higher the value, the clearer and smoother the image will become. Frame rate changes along with the resolution. Generally, in PAL format, you can select the value from 1 through 25; in NTSC format, you can select the value from 1 through 30. However, the specific range of frame rate that you can select depends on the capability of the Device.
Quality	This function is available if you select VBR in the Bit Rate List. The higher the value, the better the image will become.
I Frame Interval	The interval between two reference frames.
Bit Rate (Kb/S)	In the Bit Rate list, select a value or enter a customized value to change the image quality. The bigger the value is, the better the image will become.
Video	Enable the function for sub stream.
Audio Encode	Click More Setting , the More Setting interface is displayed. <ul style="list-style-type: none"> ● Audio Encode: This function is enabled by default for main stream. You need to manually enable it for sub stream 1. Once this function is enabled, the recorded video file is composite audio and video stream.
Audio Source	<ul style="list-style-type: none"> ● Audio Source: In the Audio Source list, you can select LOCAL and HDCVI. <ul style="list-style-type: none"> ◇ LOCAL: The audio signal is input from Audio input port. ◇ HDCVI: The audio signal is input from HDCVI camera.
Audio Format	<ul style="list-style-type: none"> ● Audio Format: In the Audio Format list, select a format that you need.

Step 3 Click **Apply** to complete the settings.



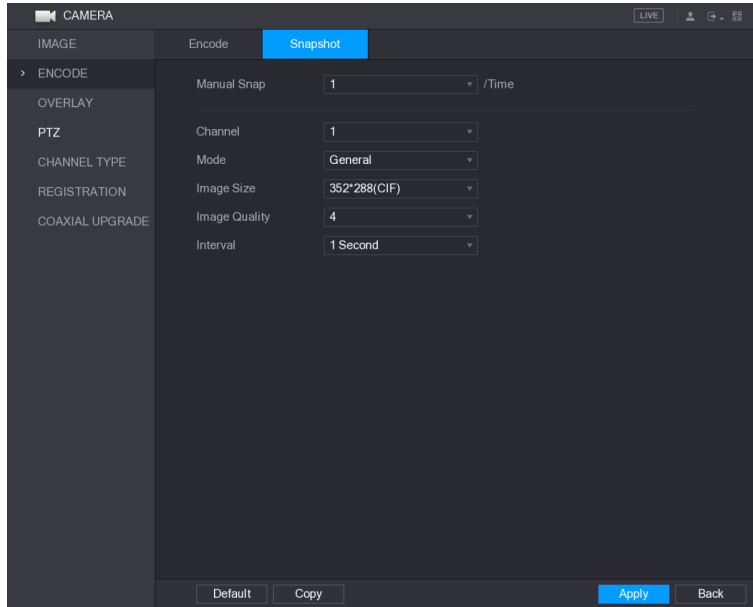
NOTE

Click **Copy** to copy the settings to other channels.

Configuring Snapshot Settings

Step 1 Select **Main Menu > CAMERA > ENCODE > Snapshot**.

The **Snapshot** interface is displayed.



Step 2 Configure the settings for the snapshot parameters.

Parameter	Description
Manual Snap	In the Manual Snap list, select how many snapshots you want to take each time.
Channel	In the Channel list, select the channel that you want to configure the settings for.
Mode	In the Mode list, you can select Human Face , Event , or General as the event type for which you want to take a snapshot.
Image Size	In the Image Size list, select a value for the image.
Image Quality	Configures the image quality by 6 levels. The higher the level, the better the image will become.
Interval	Configures or customizes the snapshot frequency.

Step 3 Click **Apply** to complete the settings.

NOTE

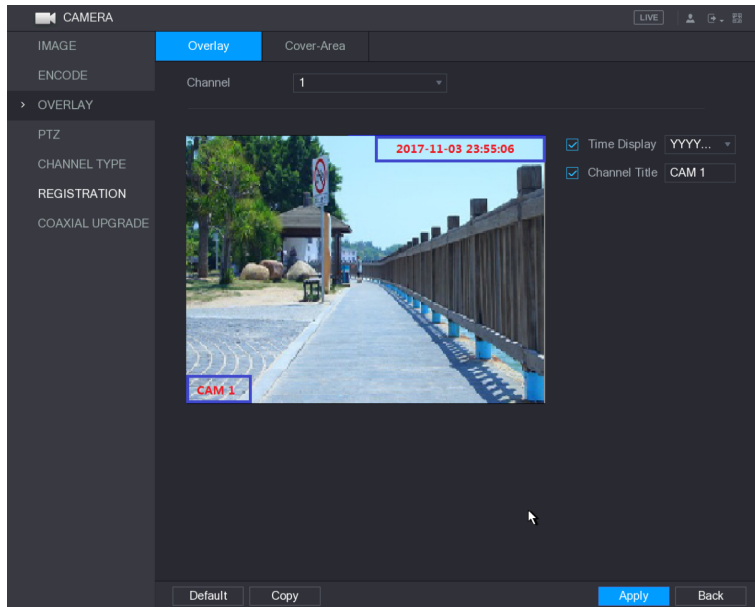
Click **Copy** to copy the settings to other channels.

Configuring Overlay Settings

You can configure to display system time and channel name on each channel window in the live view screen.

Step 1 Select **Main Menu > CAMERA > OVERLAY > Overlay**.

The **Overlay** interface is displayed.



Step 2 Configure the settings for the text overlay parameters.

Parameter	Description
Channel	In the Channel list, select the channel that you want to configure the settings for.
Time Display	Select the Time Display check box to display the system time on each channel window in the live view screen. In the Time Display list, select time display style.
Channel Title	Select the Channel Title check box to display the channel name on each channel window in the live view screen. In the Channel Title box, enter the name for the selected channel.

Step 3 Click **Apply** to complete the settings.

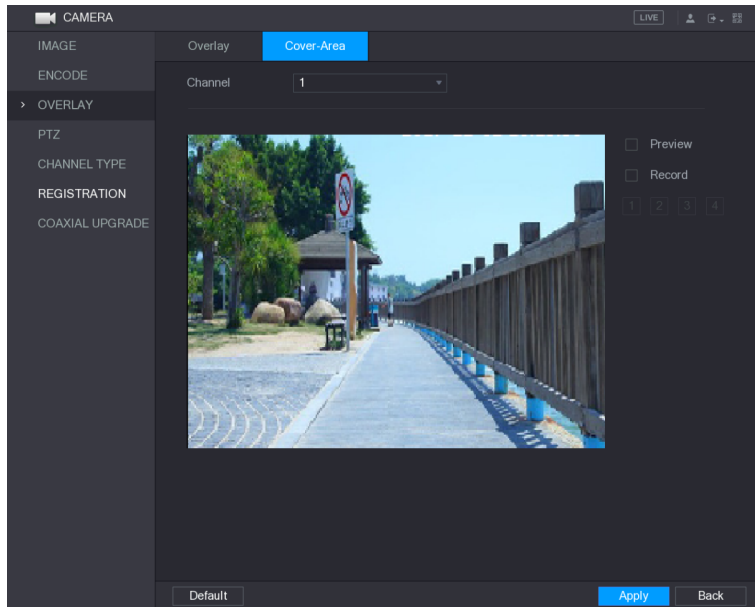
 **NOTE**

Click **Copy** to copy the settings to other channels.

Configuring Covered Area Settings

Step 1 Select **Main Menu > CAMERA > OVERLAY > Cover-Area**.

The **Cover-Area** interface is displayed.



Step 2 Configure the settings for the covered area parameters.

Parameter	Description
Channel	In the Channel list, select the channel that you want to configure the settings for.
Preview	<ul style="list-style-type: none"> Preview: Select the Preview check box to apply the configured covered block to the selected channel window in the live view screen. Record: Select the Record check box to apply the configured covered block to the selected channel window during recording.
Record	<p>To configure covering block, do the following:</p> <ol style="list-style-type: none"> Select the Preview check box or the Record check box, or select the both. The "1, 2, 3, 4" buttons are activated. Click the buttons to select blocks. A triangle solid black block is displayed. You can drag the block to the area that you want to cover and adjust the size of the block. You can configure total 4 covered blocks.

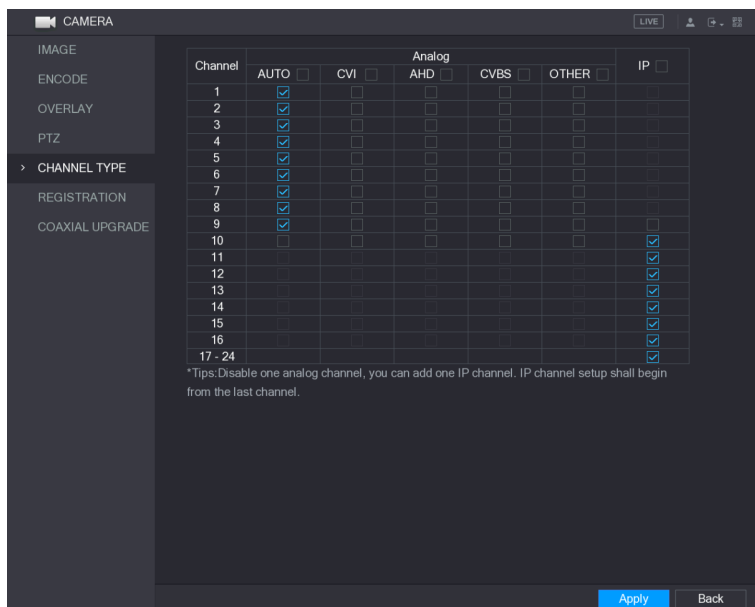
Step 3 Click **Apply** to complete the settings.

Configuring Channel Type

You can configure the channel type as **Analog** or **IP** channel.

Step 1 Select **Main Menu > CAMERA > CHANNEL TYPE**.

The **CHANNEL TYPE** interface is displayed.



Step 2 Configure the channels.

- Analog Channel: Select the transmission medium such as CVI, CVBS, and then follow the onscreen instructions to complete the settings.
- IP Channel: Select a channel for IP camera from the last channel number, for example, in **Error! Reference source not found.**, select from the **17–24** check box. Then follow the onscreen instructions to complete the settings.

NOTE

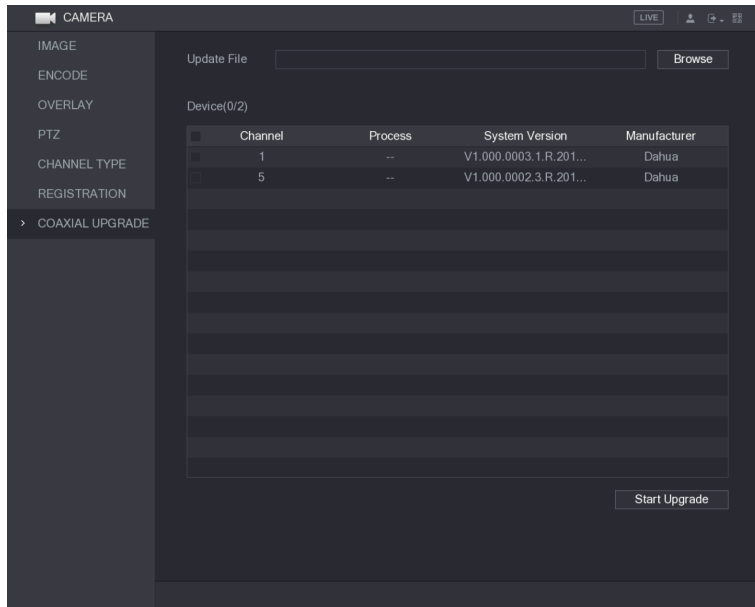
- The 17–24 channels are only for IP camera and the range changes dependent on the model you purchased.
- The channel selection for analog camera or IP camera are in sequence, for example, if you want to select channels for IP camera, you need to select the **17–24** check box first, and then you cannot jump to select the channel **15** directly until you have selected the channel **16**.

Step 3 Click **Apply** and follow the onscreen instructions to complete the settings.

Upgrading Coaxial Camera

Step 1 Select **Main Menu > CAMERA > COAXIAL UPGRADE**.

The **COAXIAL UPGRADE** interface is displayed.



Step 2 Click **Browse**.

The **Browse** interface is displayed.

Step 3 Select the upgrade file and click **OK**.

The **COAXIAL UPGRADE** interface is displayed.

NOTE

You need to insert the USB storage device that contains the upgrading files.

Step 4 Select the check box of the channel that you want to upgrade.

Step 5 Click **Start Upgrade**.

If the upgrading is successful, the system pops up a message indicating the upgrading is completed. If the upgrading is failed, please check if the Device

Configuring Remote Devices

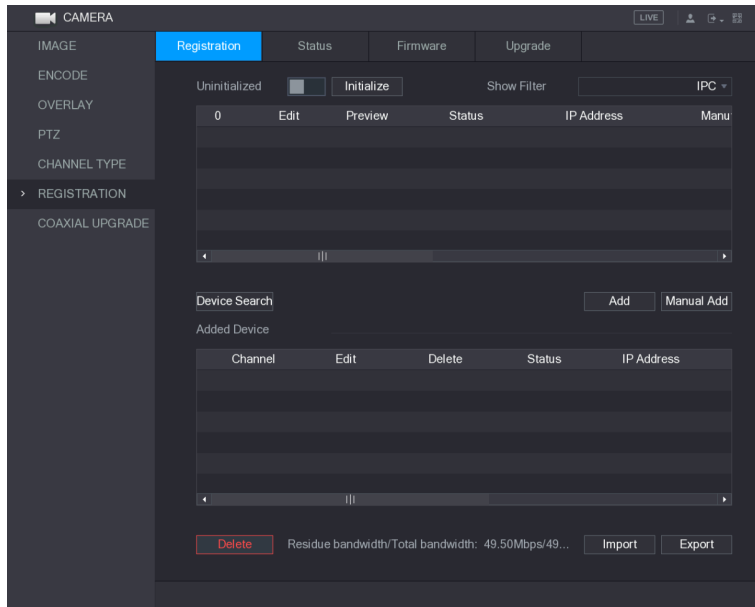
Adding Remote Devices

NOTE

This function is available after you have configured the channel type as IP channel as described in previous section.

You can add remote devices by adding the IP address.

Select **Main Menu > CAMERA > REGISTRATION > Registration**, the **Registration** interface is displayed.



Parameter	Description
Uninitialized	Enable the Uninitialized function, the uninitialized devices out of the searched devices are displayed in the searched device list.
Initialize	Select the uninitialized device from the uninitialized device list, and the click Initialize to start initializing device.
Show Filter	In the Show Filter list, select the remote device type that you want to display in the searched device list. <ul style="list-style-type: none"> None: Display all types of devices. IPC: Display the front-end devices. DVR: Display all storage devices such as NVR, DVR and HCVR. OTHER: Display the devices that do not belong to IPC or DVR type.
Searched Device List	Displays the searched devices. You can view the device information such as status, IP address.
Device Search	Click Device Search , the searched devices display in the searched device list. To adjust the display sequence, in the title line, you can click the IP address, Manufacturer, Type, MAC Address, Port, or Device Name text. For example, click the IP address text, the sequence icon IP Address - is displayed. NOTE "***" is displayed next to the added device.
Add	In the Searched Device List area, select the device that you want to add.

Commented [c5]:

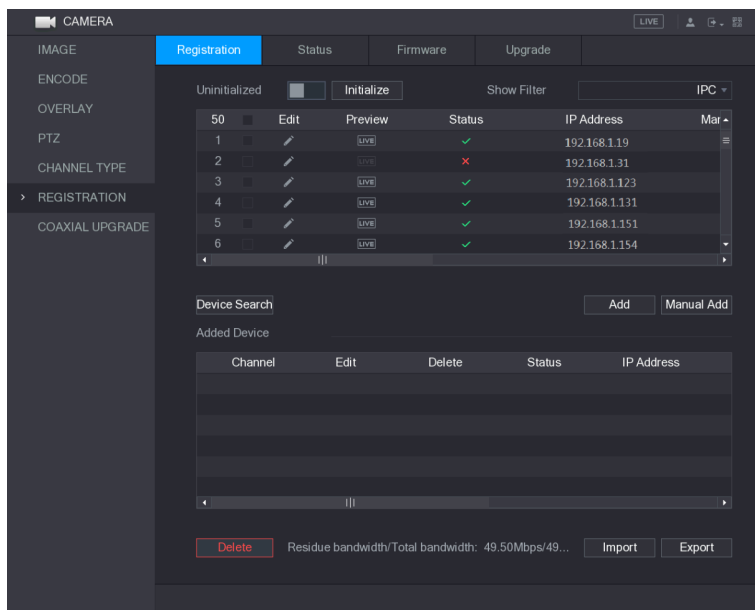
Parameter	Description
Manual Add	Add the device by manually configuring settings such as IP address, channel selection.
Added Device List	Displays the added devices. You can edit and delete the device, and view the device information.
Delete	Select the check box of the added device, and then click Delete to delete the added device.
Import	Select the searched devices and then click Import to import the devices in batches.
Export	Select the added devices and then click Export . The exported devices information is saved into the USB storage device.

Initializing Remote Devices

You can reset the password and IP address of the remote devices through initializing.

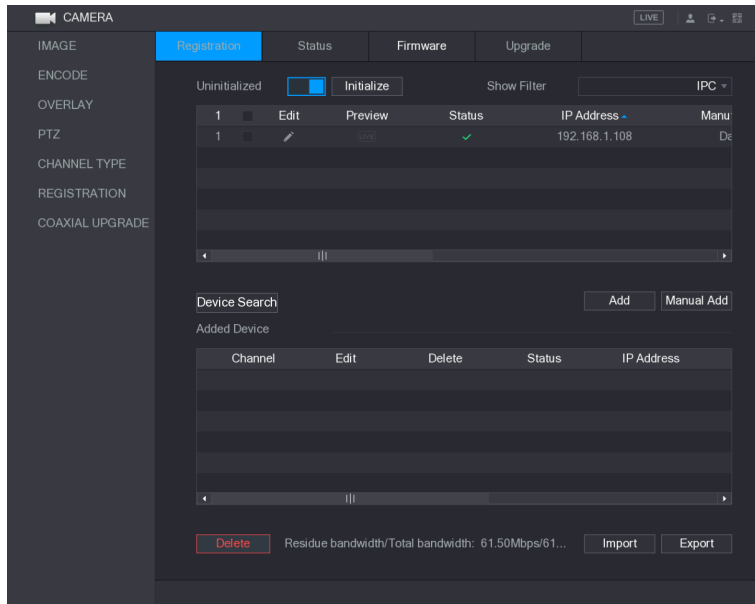
Step 1 Click **Device Search**.

The searched devices are displayed in the table.



Step 2 Enable the Initialized function.

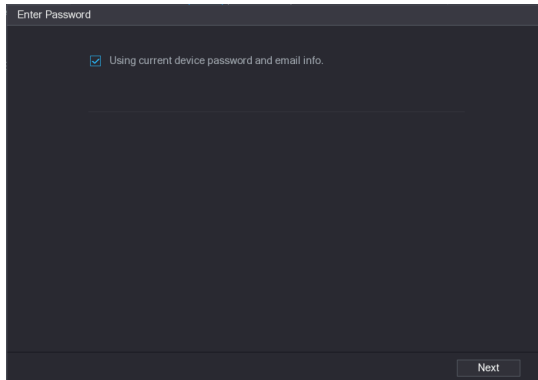
The uninitialized devices are displayed.



Step 3 Select the uninitialized device that you want to initialize.

Step 4 Click **Initialize**.

The **Enter Password** interface is displayed.



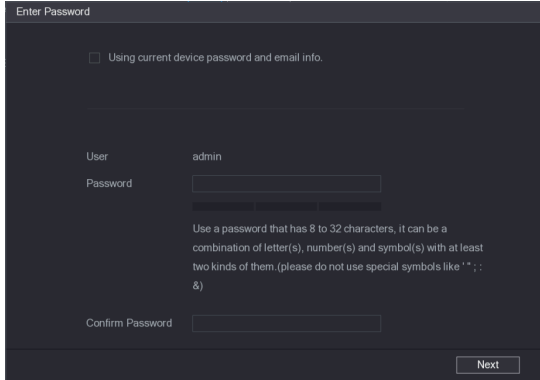
Step 5 Configure the password and email information.

NOTE

If you select the **Using current device password and email info** check box, the remote device automatically uses the current password and email information, so you do not need to set the password and email address again and can go to Step 6.

1) Clear the **Using current device password and email info** check box.

The password setting interface is displayed.

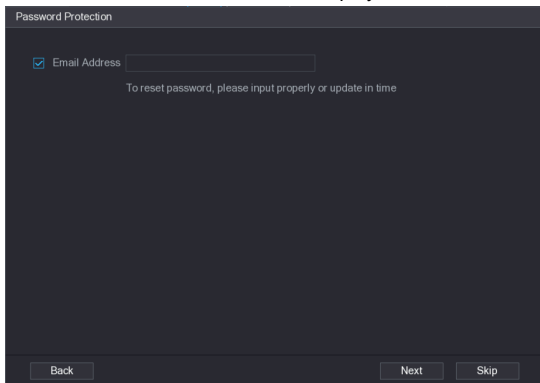


2) Configure the settings for the password setting parameters.

Parameter	Description
User	The default is admin.
Password	The new password can be set from 8 characters through 32 characters and contains at least two types from number, letter and special characters (excluding "", "", ":", ".," and "&").
Confirm Password	Please enter a strong password according to the password strength bar indication.

3) Click **Next**.

The **Password Protection** interface is displayed.



4) Select the **Email Address** box and enter the email address that you want to reserve for password reset in the future.

NOTE

If you do not want to set the reserved email address, click **Skip**.

Step 6 Click **Next**.

The **NETWORK** interface is displayed.

NETWORK

Checked Device No.: 1

DHCP

STATIC

IP Address Incremental Value

Subnet Mask

Default Gateway

1	IP Address
1	192.168.1.108

Step 7 Configure the IP address.

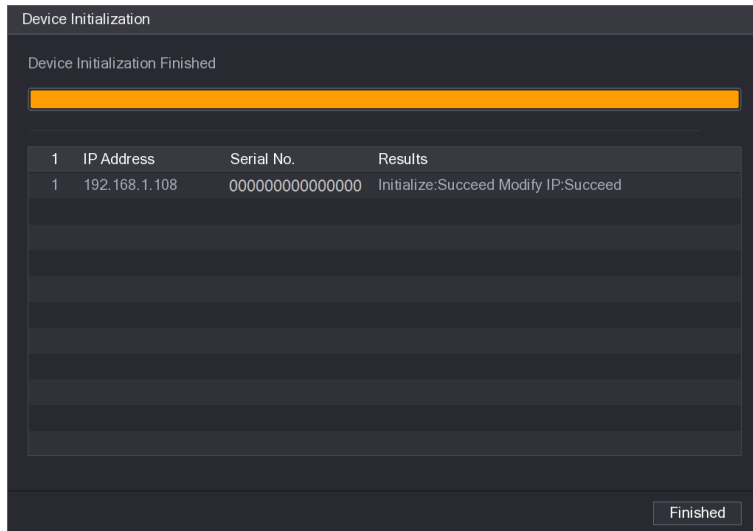
- Select the **DHCP** check box, you do not need to enter the IP address information, because the system will allocate one IP address to the remote device.
- Select the **STATIC** check box, you need to enter the IP address, subnet mask, default gateway, and incremental value. The system will allocate the IP address to the remote devices by progressively increasing the last part of the IP address when initializing devices in batches.

 **NOTE**

When configuring IP address for multiple remote devices which were not in the same network segment, these remote devices will belong to the same network segment after configuration.

Step 8 Click **Next**.

The initializing is started. After the process is completed,

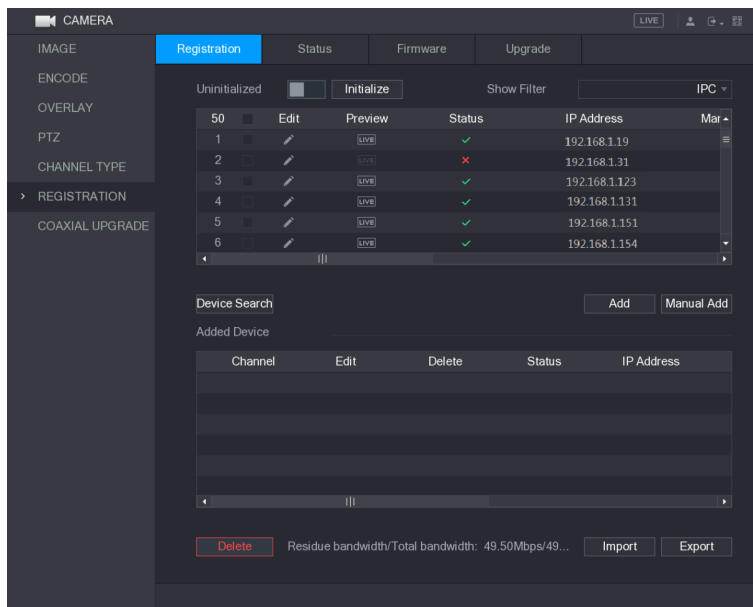


Step 9 Click **Finished** to complete the settings.

Adding Remote Devices Automatically

Step 1 On the **Registration** interface, click **Device Search**

The searched devices are displayed.



Step 2 Select the check box of the device.

Step 3 Click **Add**.

The device is added into the **Added Device** area.

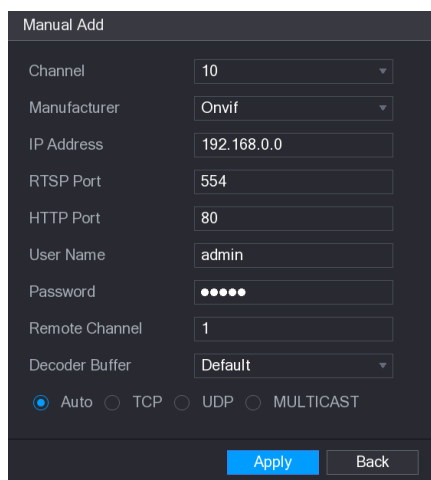
 **NOTE**

- You can also double-click the device to add it into the **Added Device** area.
- You can add devices in batches.


Adding Remote Devices Manually

Step 1 On the **Registration** interface, click **Manual Add**.

The **Manual Add** interface is displayed.



Step 2 Configure the settings for the manual adding device parameters.

Parameter	Description
Channel	In the Channel list, select the channel that you want use on the Device to connect the remote device.
Manufacturer	In the Manufacturer list, select the manufacturer of the remote device.
IP Address	In the IP Address box, enter the IP address of remote device.  NOTE The default is 192.168.0.0 which the system cannot connect to.
RTSP Port	The default value setting is 554. You can enter the value according to your actual situation.
HTTP Port	The default value setting is 80. You can enter the value according to your actual situation. If you enter other value, for example, 70, and then you should enter 70 after the IP address when logging in the Device by browser.
User Name	Enter the user name of the remote device.
Password	Enter the password of the user for the remote device
Remote Channel	Enter the remote channel number of the remote device that you want to add.
Decoder Buffer	In the Decoder Buffer list, select Default , Realtime , or Fluent .

Parameter	Description
Protocol Type	Select Auto , TCP , UDP , or MULTICAST . The default is TCP .

Step 3 Click **Apply** to save the settings.



NOTE

- Only one device can be added manually at one time.
- indicates successful connection and indicates connection failed.

Modifying or Deleting Remote Devices

You can modify and delete the added devices.

- To modify the remote devices, do the following:

Step 1 Click or double-click a device.

The **Edit** interface is displayed.

Step 2 In the **Channel** list, select the channel that you want to modify settings for.

Step 3 Click **OK** to save the settings.



NOTE


Click **Copy** to copy the user name and password to other channels.

- To delete one or more added devices, do the following:
 - ◇ Click to delete one device
 - ◇ Select the check box of the devices that you want to delete, and then click **Delete**.

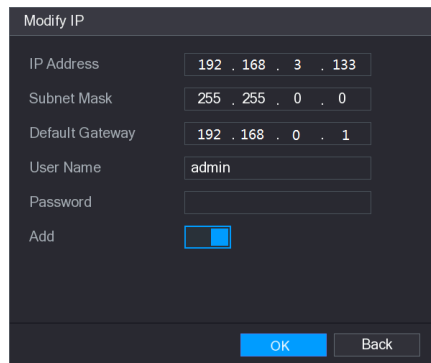
Modifying IP Address

You can modify a single IP address or multiple IP addresses of remote devices at the one time.

- To modify a single IP address, do the following:

Step 1 In the Searched Device list area, click  for the device that you want to modify IP.

The **Modify IP** interface is displayed.



IP Address	192 . 168 . 3 . 133
Subnet Mask	255 . 255 . 0 . 0
Default Gateway	192 . 168 . 0 . 1
User Name	admin
Password	
Add	<input checked="" type="checkbox"/>


Step 2 Configure the settings for IP address, subnet mask, default gateway, user name, and password.

Step 3 Enable the **Add** function to add the device into the **Added Device** area.

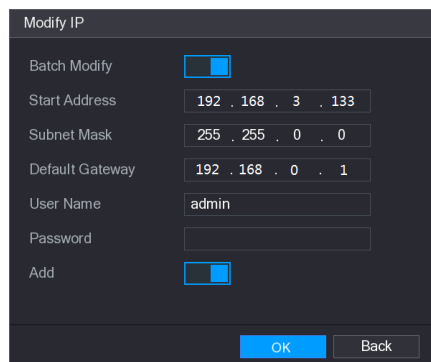
Step 4 Click **OK** to save the settings.

- To modify IP address in batches, do the following:

Step 1 In the Searched Device list area, select the devices that you want to modify IP address in batches.

Step 2 Click .

The **Modify IP** interface is displayed.



Batch Modify	<input checked="" type="checkbox"/>
Start Address	192 . 168 . 3 . 133
Subnet Mask	255 . 255 . 0 . 0
Default Gateway	192 . 168 . 0 . 1
User Name	admin
Password	
Add	<input checked="" type="checkbox"/>

Step 3 Enable the **Batch Modify** function.

Step 4 Configure the settings for start IP address (the IP address is allocated in sequence), subnet mask, default gateway, user name, and password.

Step 5 Enable the **Add** function to add the devices into the **Added Device** area.

Step 6 Click **Apply** to save the settings.

Exporting IP Address

You can export the added IP address to the USB storage device.

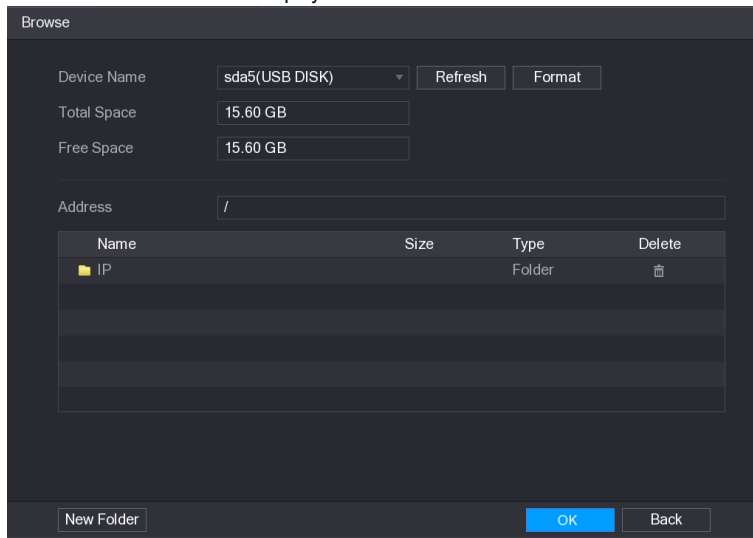
 **NOTE**

The exported information is saved in .csv file, which includes IP address, port number, channel number, manufacturer, user name, and password.

Step 1 Insert the USB storage device to the USB port of the Device.

Step 2 Click **Export**.

The **Browse** interface is displayed.



Step 3 Configure the save path.

Step 4 Click **OK** to save the settings.

A pop-up message indicating "Successfully exported" is displayed.

Step 5 Click **OK**.

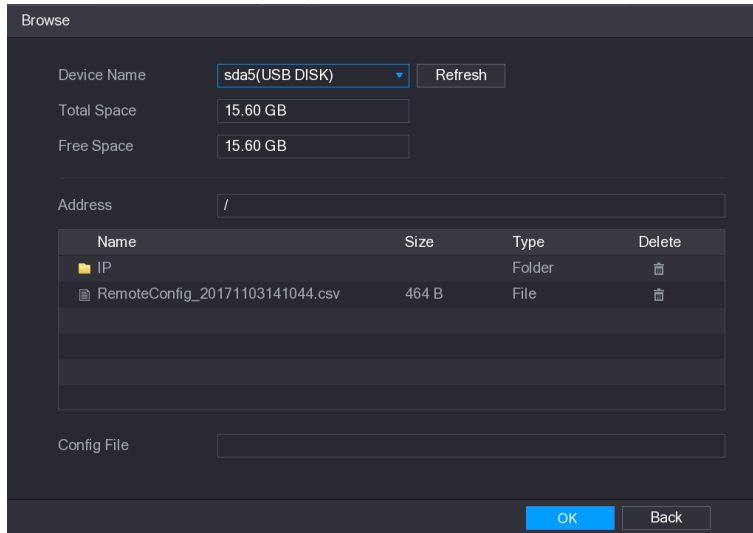
Importing IP Address

You can add remote devices by importing IP address information.

Step 1 Insert the USB storage device to the USB port of the Device.

Step 2 Click **Import**.

The **Browse** interface is displayed.



Step 3 Select the file that you want to import.

Step 4 Click **OK** to start importing.

After importing is completed, a pop-up message indicating "The import succeeded" is displayed.

 **NOTE**

If the IP address that you want to import already exists in the Device, the system will pop up a message to ask you whether to overwrite the existing content.

- Click **OK** to replace the existing one.
- Click **Cancel** to add it as a separate device in the **Added Device** area.



CAUTION

- You can edit the exported .csv file and be cautious not to change the file format; otherwise the file cannot be imported as it will be judged as invalid.
- The language of .csv file must match the Device language.
- The import and export through customized protocol is not supported.

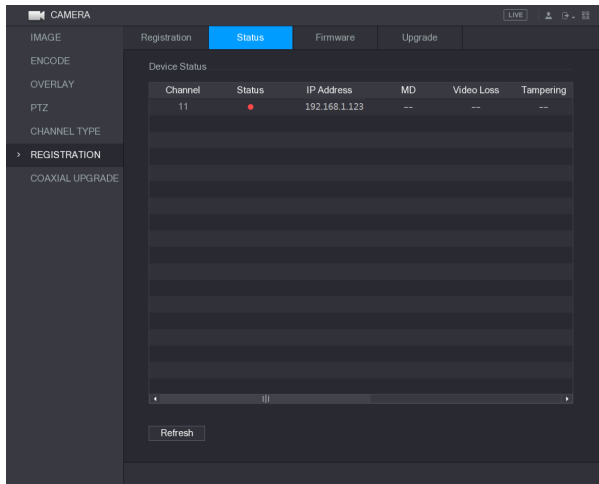
Managing Remote Devices

You can view the status of remote devices and upgrade.

Viewing Status

You can view the device information such as connection status, IP address, motion detection, video loss detection, camera name, and manufacturer.

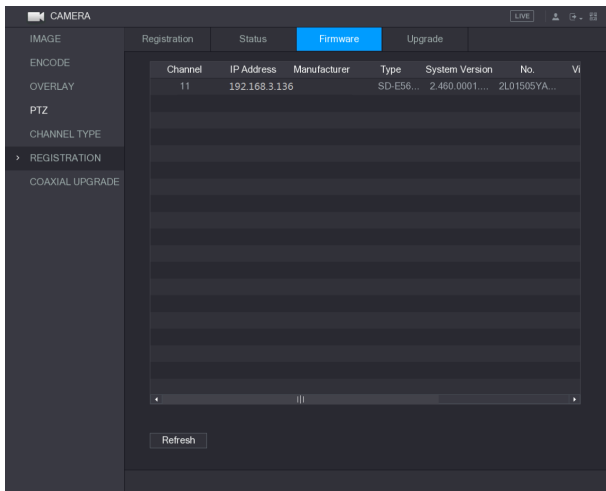
Select **Main Menu > CAMERA > REGISTRATION > Status**, the **Status** interface is displayed.



Viewing Firmware Information

You can view the device firmware information such as channel number, IP address, manufacturer, system version, video input, audio input, and alarm in.

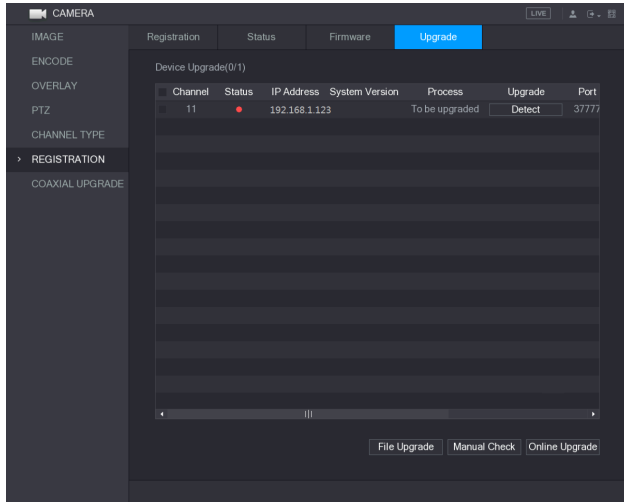
Select **Main Menu > CAMERA > REGISTRATION > Firmware**, the **Firmware** interface is displayed.



Upgrading Remote Devices

Step 1 Select **Main Menu > CAMERA > REGISTRATION > Upgrade**.

The **Upgrade** interface is displayed.



Step 2 Upgrade the device.

- File Upgrade
 - 1) Insert a USB storage device containing the upgrade files into the USB port of the Device.
 - 2) Select the devices that you want to upgrade.
 - 3) Click **File upgrade**.
The **File Upgrade** interface is displayed.
 - 4) Select the upgrading files and click **Apply**.
- Online Upgrade
 - 1) Click **Detect** or select the check box the device that you want to upgrade and click **Manual Check**.
The system starts detecting if there is a new version on the online server.
 - 2) Select the check box of all the devices that have new version.
 - 3) Click **Online Upgrade**.

NOTE

- The system will pop up a message to indicate if the upgrading is successful.
- You can use the Type list to filter the devices so that you can find the devices quickly.

Configuring Record Settings

You can record video manually or automatically and configure the recording settings to main stream and sub stream respectively.

Enabling Record Control

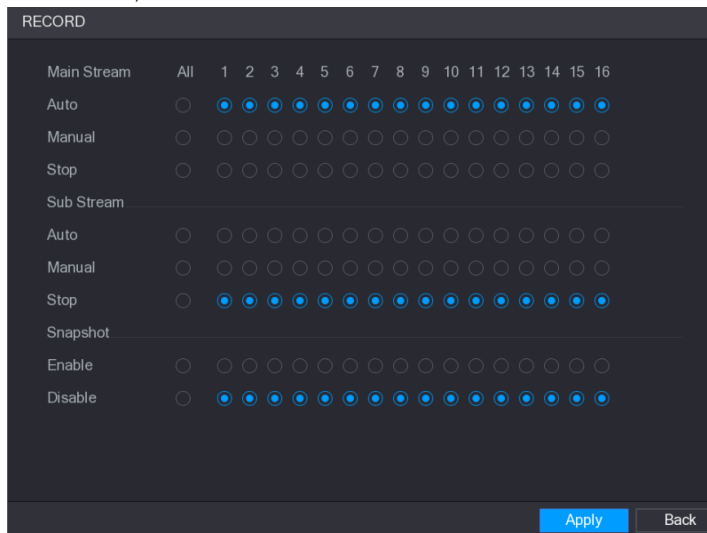


CAUTION

- Manual recording operation requires the user have the permission to access **STORAGE** settings.
- Check to ensure the HDD installed in the Device has been formatted properly.

To enter the record control interface, do the following:

Step 1 Right-click on the live view screen, the shortcut menu is displayed. On the shortcut menu, select **Manual > Record Control**.



Step 2 Configure the settings for the record control parameters.

Parameter	Description
Channel	Displays all the analog channels and the connected digital channels. You can select a single channel or select All .
Record status	<ul style="list-style-type: none"> • Auto: Automatically record according to the record type and recording time as configured in the recording schedule. • Manual: Keep general recording for 24 hours for the selected channel. • Stop: Do not record.
Snapshot status	Enable or disable the scheduled snapshot for the corresponding channels.

Step 3 Click **Apply**.

Configuring Recorded Video Storage Schedule

You need to configure the storage schedule for the recorded video so that the recorded video can be saved.

Configuring Snapshot Settings

Configuring Snapshot Trigger

The snapshot is divided into scheduled snapshot, event triggered snapshot, and face detection triggered snapshot. When the both are enabled, the event triggered snapshot has the priority.

- If there is no alarm event, the system performs scheduled snapshot.
- If there is any alarm event, the system performs event triggered snapshot.

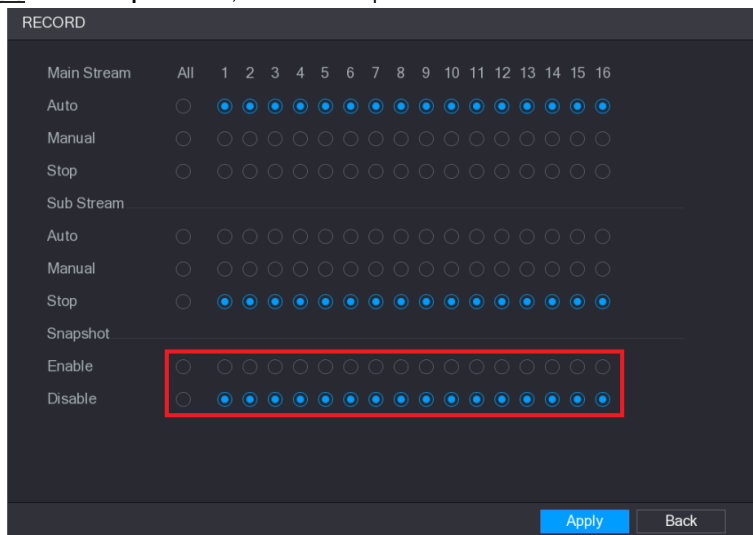
Configuring Scheduled Snapshot

Step 1 Right-click on the live view screen, the shortcut menu is displayed.

Step 2 On the shortcut menu, select **Manual > Record Control**.

The **RECORD** interface is displayed.

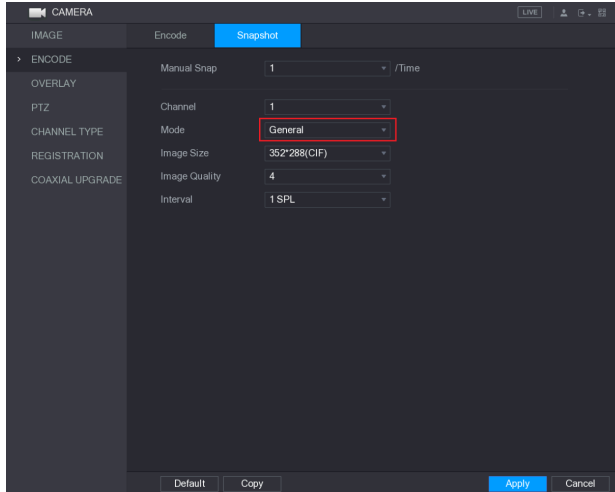
Step 3 In the **Snapshot** area, enable the snapshot for the channels if needed.



Step 4 Select **Main Menu > CAMERA > ENCODE > Snapshot**.

The **Snapshot** interface is displayed.

Step 5 In the **Mode** list, select **General**, and then configure other parameters.



Step 6 Click **Apply** to save the settings.

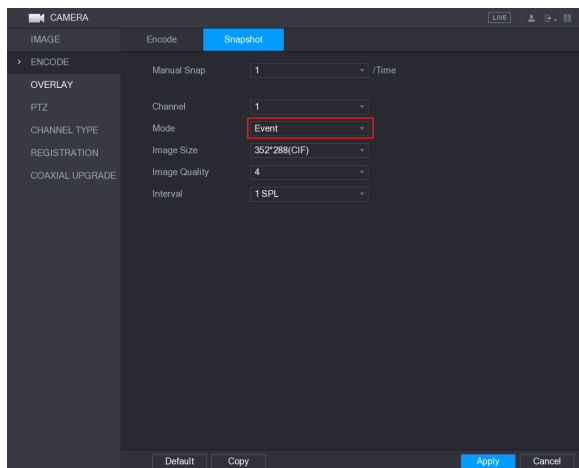
- If you have configured the snapshot schedule, the configuration has been completed.

Configuring Event Triggered Snapshot

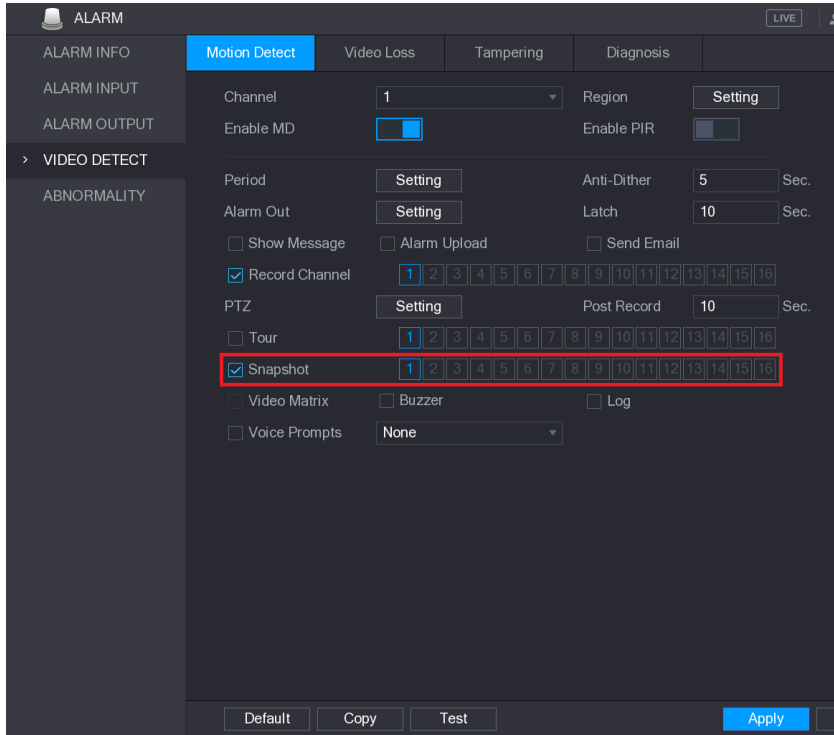
Step 1 Select **Main Menu > CAMERA > ENCODE > Snapshot**.

The **Snapshot** interface is displayed.

Step 2 In the **Mode** list, select **Event**, and then configure other parameters.



Step 1 Select **Main Menu > ALARM > VIDEO DETECT**, and select the event type to configure, for example, select the **Motion Detect** tab.



Step 2 Select the **Snapshot** check box and select the corresponding channel.

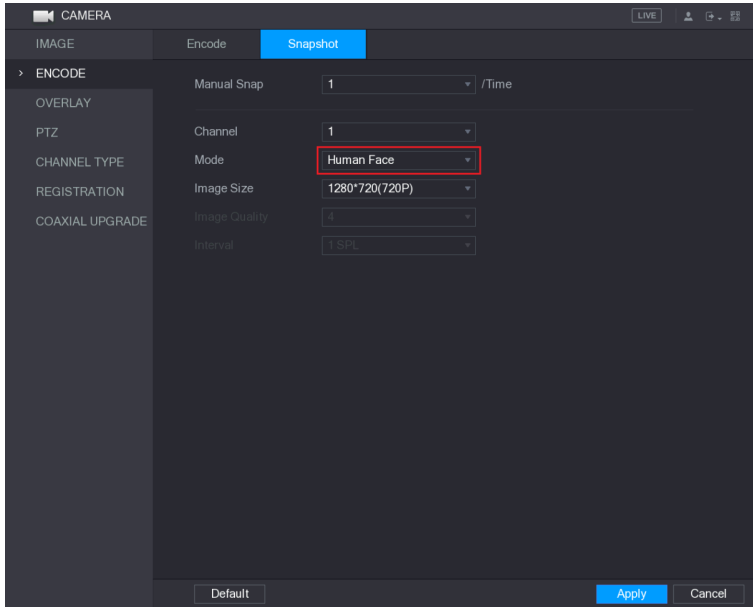
Step 3 Click **Apply**.

Configuring Face Detection Triggered Snapshot

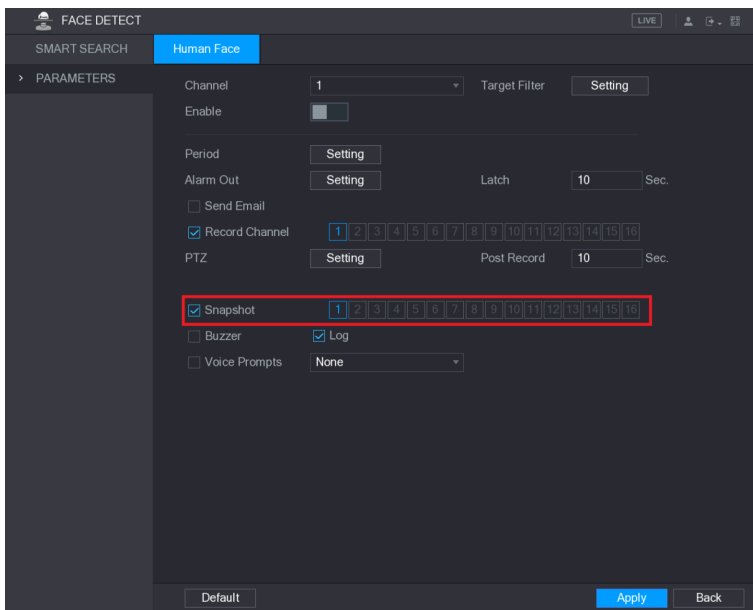
Step 1 Select **Main Menu > CAMERA > ENCODE > Snapshot**.

The **Snapshot** interface is displayed.

Step 2 In the **Mode** list, select **Human Face**, and then configure other parameters.



Step 3 Select **Main Menu > FACE DETECT > PARAMETERS > Human Face**.
The **Human Face** interface is displayed.



Step 4 Select the **Snapshot** check box and select the corresponding channel.

Step 5 Click **Apply**.

Configuring Snapshot Storage Schedule

You need to configure the storage schedule for the snapshot so that the snapshot can be saved.

Backing up Snapshots to FTP

Step 1 Select **Main Menu > STORAGE > FTP**.

The **FTP** interface is displayed.

Menu Item	Value / Status
Enable	<input checked="" type="checkbox"/>
Host IP	0 . 0 . 0 . 0
Port	21
Anonymity	<input type="checkbox"/>
User Name	
Password	
Remote Directory	
File Length(M)	0
Image Upload Interval(Sec.)	2
Channel	1
Week Day	Wed
Period 1	00 : 00 - 24 : 00
Period 2	00 : 00 - 24 : 00
Alarm	<input type="checkbox"/>
Intel	<input type="checkbox"/>
MD	<input type="checkbox"/>
General	<input type="checkbox"/>

Step 2 Enable the FTP function and configure the parameters."

The snapshots will be uploaded to FTP for backup.

Playing Back Video

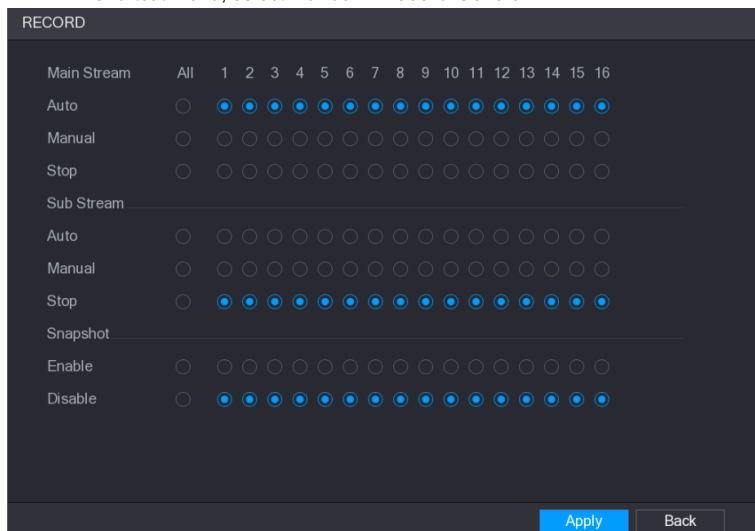
Enabling Record Control

CAUTION

- Manual recording operation requires the user have the permission to access **STORAGE** settings.
- Check to ensure the HDD installed in the Device has been formatted properly.

To enter the record control interface, do the following:

Step 1 Right-click on the live view screen, the shortcut menu is displayed. On the shortcut menu, select **Manual > Record Control**.



Step 2 Configure the settings for the record control parameters.

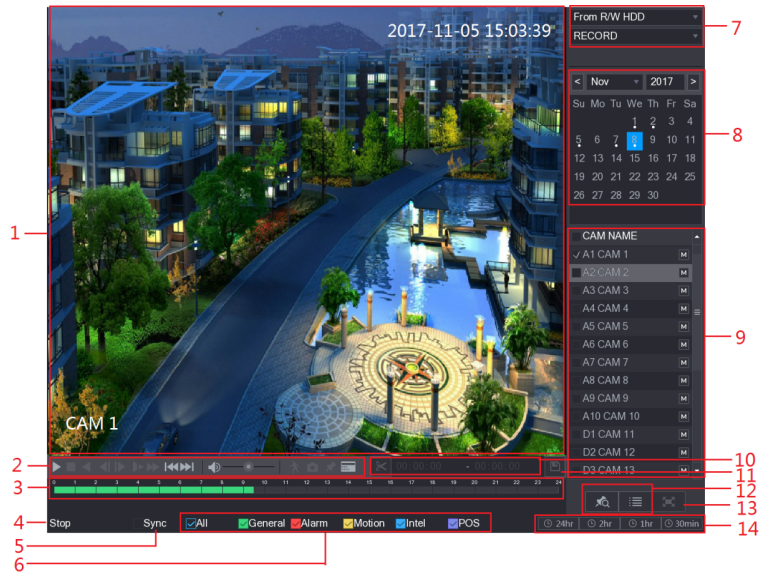
Parameter	Description
Channel	Displays all the analog channels and the connected digital channels. You can select a single channel or select All .
Record status	<ul style="list-style-type: none"> ● Auto: Automatically record according to the record type and recording time as configured in the recording schedule. ● Manual: Keep general recording for 24 hours for the selected channel. ● Stop: Do not record.
Snapshot status	Enable or disable the scheduled snapshot for the corresponding channels.

Instant Playback







You can use the instant playback function to play back the previous five minutes to sixty minutes of the recorded video in any channel.

Main Interface of Video Playback

You can search for and play back the recorded video saved on the Device. Select **Main Menu > VIDEO**, the video search interface is displayed.




No.	Function	Description
1	Display Window	<p>Display the searched recorded video or picture. It supports playing in single-channel, 4-channel and 9-channel</p> <p>NOTE</p> <p>When playing back in a single channel mode, hold down the left mouse button to select the area that you want to enlarge. The area is enlarged after the left mouse button is released. To exit the enlarged status, right-click on the image.</p>
2	Playback Controls Bar	Playback control buttons.
3	Time Bar	<p>Display the type and time period of the current recorded video.</p> <ul style="list-style-type: none"> In the 4-channel layout, there are four time bars are displayed; in the other view layouts, only one time bar is displayed. Click on the colored area to start playback from a certain time. In the situation when you are configuring the settings, rotate the wheel button on the time bar, the time bar is zooming in from 0. In the situation when playback is ongoing, rotate the wheel button on the time bar, the time bar is zooming from the time point where the playback is located. Time bar colors: Green indicates general type; Red indicates external alarm; Yellow indicates motion detection; Blue indicates intelligent events; Purple indicates POS events. For some models, when you are clicking on the blank area in the time bar, the system automatically jumps to the next time point where there is a recorded video located.
4	Play Status	Includes two playback status: Play and Stop .
























No.	Function	Description
5	Sync	Select the Sync check box to simultaneously play recorded videos of different channels in the same period in multi-channel view.
6	Record type	Select the check box to define the recording type to search for.
7	Search type	Select the content to play back: Record, PIC, Splice Playback.
8	Calendar	Click the date that you want to search, the time bar displays the corresponding record. The dates with record or snapshot have a small solid circle under the date.
9	View Layout and Channel Selection	In the CAM NAME list, select the channel(s) that you want to play back. <ul style="list-style-type: none"> The window split is decided by how you select the channel(s). For example, if you select one channel, the playback is displayed in the single-channel view; if you select two to four channels, the playback is displayed in the four-channel view. The maximum is eight channels. Click  to switch the streams.  indicates main stream, and  indicates sub stream.
10	Video Splice	Splice a section of recorded video and save it.
11	Backup	Back up the recorded video files.
12	List Display	This area includes Mark List and File List . <ul style="list-style-type: none"> : Click the Mark List button, the marked recorded video list is displayed. Double-click the file to start playing. : Click the File List button, the searched recorded video list is displayed. You can lock the files.
13	Full Screen	Click  to display in full screen. In the full screen mode, point to the bottom of the screen, the time bar is displayed. Right-click on the screen to exit full screen mode.
14	Time Bar Unit	You can select 24hr, 2hr, 1hr, or 30min as the unit of time bar. The time bar display changes with the setting.

Introducing Playback Controls Bar

You can perform the operations such as control the speed of playback, add mark, and take snapshots through the playback controls bar.



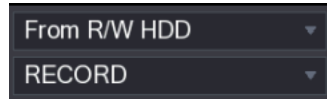
Icon	Function
	Play/Pause. During playing back, you can switch between play and pause.


Icon	Function
	Stop. During playing back, you can click the Stop button to stop playback.
	Play Backward. <ul style="list-style-type: none"> During playing back, click the Play Backward button to backward play the recorded video, the button switches to ; click  to stop playing backward. During playing back, click  to start playing forward.
	Previous Frame/Next Frame. <ul style="list-style-type: none"> When the playback is paused, click  or click  to play single-frame recorded video. When playing back single-frame recorded video, click  to start playing forward.
	Slow Playback. <ul style="list-style-type: none"> During playing back, click  to set the speed of slow playback as SlowX1/2, SlowX1/4, SlowX1/8, or SlowX1/16. During fast playback, click  to slow down the speed of fast playback.
	Fast Playback. <ul style="list-style-type: none"> During playing back, click  to set the speed of fast playback as FastX2, FastX4, FastX8, or FastX16. During slow playback, click  to speed up slow playback.
	Previous Day/Next Day. Click  or click  to play the previous day or next day of the current recorded video.
	Adjust volume of playback.
	Smart Search.
	In the full screen mode, click  to take a snapshot and save into the USB storage device or mobile HDD.
	Add Mark for the recorded view.

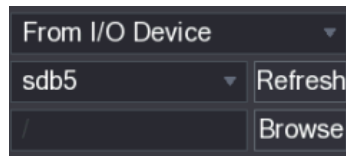
Selecting Search Type

You can search the recorded videos, splice, or snapshots from HDD or external storage device.

- **From R/W HDD:** Recorded videos or snapshots playback from HDD of the Device.

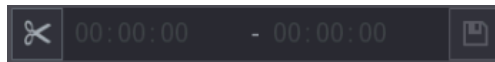


- **From I/O Device:** Recorded videos playback from external storage device.
Click **Browse**, select the save path of recorded video file that you want to play. Double-click the video file or click  to start playing.





Clipping Recorded Video


During playback, clip sections of recorded video and save to the USB storage device.



Step 1 Select a recorded video that you want to play.

- Click  to start playing from the beginning.
- Double-click anywhere in the time bar colored area to start playback.

Step 2 Click on the time bar to select the start time, and then click  to start clipping.

Step 3 Click on the time bar to select the start time, and then click  to stop clipping.

Step 4 Click .

The **BACKUP** dialog box is displayed. You can back up the files.

 NOTE


- You can clip the video of a single-channel or multiple channels.
- Maximum 1024 files can be backed up at one time.
- The files that are selected in the **File List** cannot be clipped.

Backing up Recorded Video

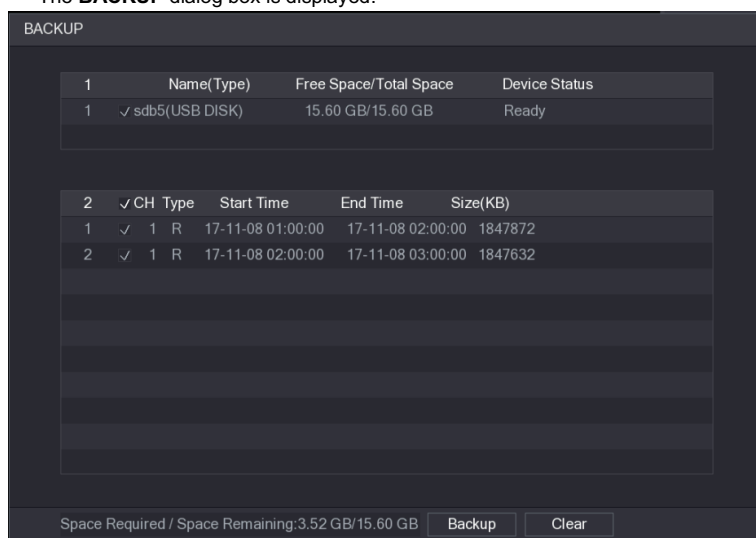
You can back up the recorded video file or splice video file into the USB storage device.

Step 1 Select the recorded video file that you want to back up. You can select the following two types of files:

- Recorded video file: Click , the **File List** area is displayed. Select the file(s) that you want to back up.
- Splice video file.

Step 2 Click .

The **BACKUP** dialog box is displayed.



Step 3 Click **Backup**.

 **NOTE**

If you do not want to backup the file, clear the check box.

Smart Search


During playback, you can analyze a certain area to find if there was any motion detection event occurred. The system will display the images with motion events of the recorded video.

To use the Smart Search function, you need to enable the motion detection for the channel by selecting **Main Menu > ALARM > VIDEO DETECT > Motion Detect**.

To use the Smart Search function, do the following:

Step 1 Select **Main Menu > VIDEO**, the video search interface is displayed.

Step 2 In the **CAME NAME** list, select the channel(s) that you want to play.

Step 3 Click  or double-click anywhere in the time bar colored area to start playback.

Step 4 Click .

The grid is displayed on the screen.

 NOTE

- Only single-channel supports smart search.
- If multi-channels are selected, double-click on the channel window to display this channel only on the screen, and then you can start using smart search function.

Step 5 Drag the pointer to select the searching area.

 NOTE

The grid area supports 22×18.

Step 6 Click .

The screen starts playing back the motional splices of recorded video for the selected searching area.


Step 7 Click  to exit the playback.

Marking and Playing Back Video

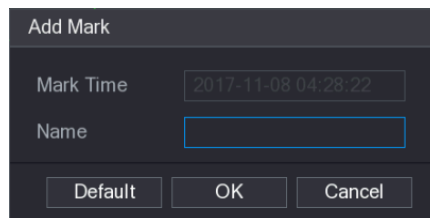
You can mark the recording for somewhere important. Then you can easily find the marked recording by searching time and mark name.

Marking a Video

Step 1 Select **Main Menu > VIDEO**, the video search interface is displayed.

Step 2 In the playback mode, click .

The **Add Mark** dialog box is displayed.



Step 3 In the **Name** box, enter a name.

Step 4 Click **OK**.

This marked video file displays in the **Mark List**.

Playing Back Marked Video

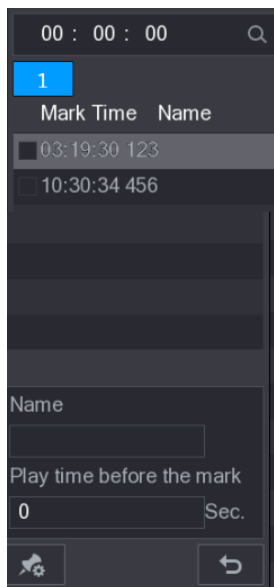
 NOTE


This function is supported on single-channel playback.

Step 1 In the **CAME NAME** list, select one channel.

Step 2 Click .

The Mark List interface is displayed.




Step 3 Double-click the file that you want to play back.
 To search the marked video by time, in the **SEARCH** box on the top of the interface, enter the time, and then click .

Playing Back Time before the Mark

You can configure to play N seconds of the marked video before the marked time.

Step 1 In the **Name** box, enter the name of a marked video.

Step 2 In the **Playback time before the mark** box, enter N seconds.

Step 3 Click .

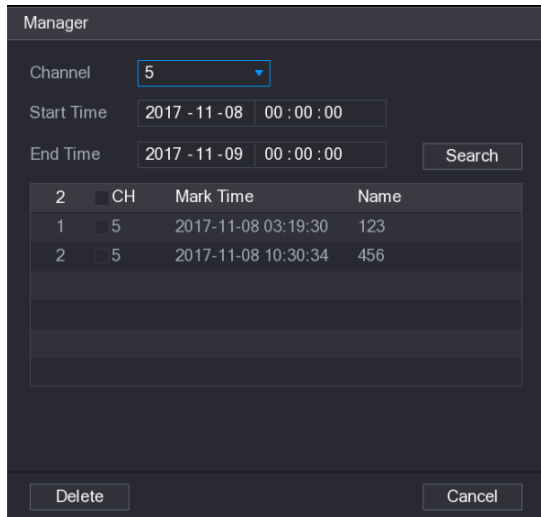
The playback starts from N seconds before the marked time.

 **NOTE**

If there is N seconds exist before the marked time, the playback starts from N seconds before the marked time. If there is not, it plays back as much as there is.

Managing Marked Video

In the **Mark List** interface, click , the Manager interface is displayed.



- Be default, it manages all the marked videos of the selected channel.
- To search the marked video, select channel number from the **Channel** list, enter time in **Start Time** box and **End Time** box, and then click **Search**.
- All the marked videos display in time order.
- To modify the name of marked video, double-click a marked video, the **Edit Mark** dialog box is displayed.
- To delete the marked video, select the marked video, and then click **Delete**.

NOTE

After opening the **Manager** interface, the playback will pause until exiting this interface. If the marked video that was in playing back is deleted, the playback will start from the first marked video in the **Mark List**.

Playing Back Snapshots

You can search and play back the snapshots.

Step 1 Select **Main Menu > VIDEO**, the video search interface is displayed.

Step 2 In the **Search Type** list, select **PIC**.

Step 3 In the **Channel** list, select a channel number.

Step 4 In the **Calendar** area, select a date.

Step 5 Click

The system starts playing snapshots according to the configured intervals.

Playing Back Splices

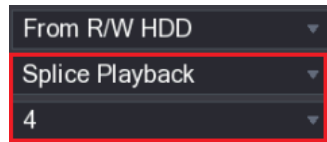
You can clip the recorded video files into splices and then play back at the same time to save your time.

 NOTE

Not all models support this function.

Step 1 Select **Main Menu > VIDEO**, the video search interface is displayed.

Step 2 In the **Search Type** list, select **Splice Playback**; In the Split Mode list, select **4** or **9**.




Step 3 In the **Calendar** area, select a date.

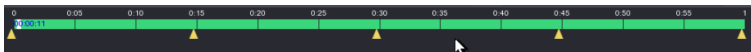
Step 4 In the **CAM NAME** list, select a channel.

 NOTE

Only single-channel supports this function.

Step 5 Start playing back splices.

- Click , the playback starts from the beginning.
- Double-click anywhere on the time bar, the playback starts from where you click.



 NOTE


Every recorded video file must be at least five minutes. If a recorded video file is less than 20 minutes but still choose to split into four windows, the system will automatically adjust the windows quantity to ensure every splice is more than five minutes, and in this case it is possible that there are no images are displaying in some windows.

Using the File List

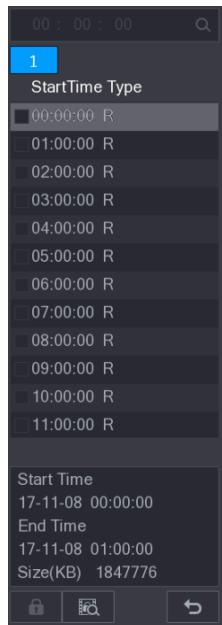
You can view all the recorded videos within a certain period from any channel in the **File List**.

Step 1 Select **Main Menu > VIDEO**, the video search interface is displayed.


Step 2 Select a channel(s).

Step 3 Click .


The **File List** interface is displayed.




Step 4 Start playback.

- Click , the playback starts from the first file by default.
- Click any file, the system plays back this file.

NOTE

- In the time box on the top of the file list interface, you can enter the specific time to search the file that you want to view.
- In the File List area, there are 128 files can be displayed.
- File type: **R** indicates general recorded video; **A** indicates recorded video with external alarms; **M** indicates recorded video with motion detection events; **I** indicates recorded video with intelligent vents.
- Click  to return to the interface with calendar and CAM NAME list.

Locking and Unlocking the Recorded Video

- To lock the recorded video, in the **File List** interface, select the check box of the recorded video, and then click . The locked video will not be covered.

- To view the locked information, click , the **FILE LOCKED** interface is displayed.

NOTE

The recorded video that is under writing or overwriting cannot be locked.

- To unlock the recorded video, in the **FILE LOCKED** interface, select the video, and then click **Unlock**.

FILE LOCKED

2	CH	Type	Start Time	End Time	Size(KB)
1	<input checked="" type="checkbox"/>	1 R	2017-11-08 10:00:00	2017-11-08 11:00:00	1460416
2	<input type="checkbox"/>	1 R	2017-10-21 00:00:00	2017-10-21 01:00:00	1919216

Unlock Cancel

Alarm Events Settings

Video Detection

Video detection adopts computer vision and image processing technology. The technology analyzes the video images to detect the obvious changes such as moving objects and blurriness. The system activates alarms when such changes are detected.

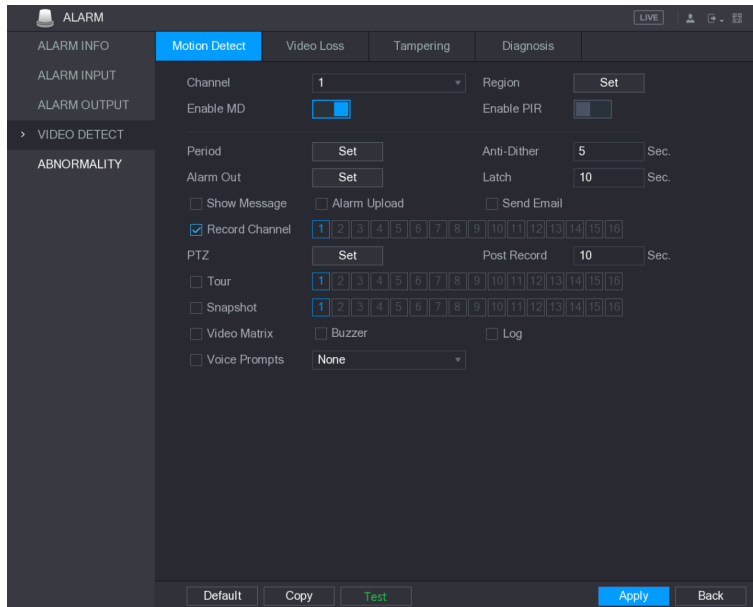
Configuring Motion Detect Settings

When the moving object appears and moves fast enough to reach the preset sensitivity value, the system activates the alarm.

To configure the motion detect settings, do the following:





Step 1 Select **Main Menu > ALARM > VIDEO DETECT > Motion Detect**.



The **Motion Detect** interface is displayed.



Step 2 Configure the settings for the motion detection parameters.

Parameter	Description
Channel	In the Channel list, select a channel to set the motion detection.
Region	Click Setting to define the motion detection region.
Enable MD	Enable or disable the motion detection function.
Enable PIR	<p>PIR function helps enhancing the accuracy and validity of motion detect. It can filter the meaningless alarms that are activated by the objects such as falling leaves, flies. The detection range by PIR is smaller than the field angle.</p> <p>PIR function is enabled by default if it is supported by the cameras. Enabling PIR function will get the motion detect to be enabled automatically to generate motion detection alarms; if the PIR function is not enabled, the motion detect just has the general effect.</p> <p> NOTE</p> <ul style="list-style-type: none"> • Only when the channel type is CVI, the PIR function can be enabled. • If the camera does not support PIR function, it will be unusable. • If the Device does not support PIR function, it will not be displayed on the interface.
Period	Define a period during which the motion detection is active.
Anti-Dither	Configure the event detection lasting time. The system records only one event during this period. The value ranges from 5 seconds to 300 seconds.

Parameter	Description
Alarm Out	<p>Click Setting to display setting interface.</p> <ul style="list-style-type: none"> ● General Alarm: Enable alarm activation through the alarm devices connected to the selected output port. ● External Alarm: Enable alarm activation through the connected alarm box. ● Wireless Siren: Enable alarm activation through devices connected by USB gateway or camera gateway.
Latch	<p>Set a length of time for the Device to delay turning off alarm after the external alarm is cancelled. The value ranges from 0 seconds to 300 seconds, and the default value is 10 seconds. If you enter 0, there will be no delay.</p>
Show Message	<p>Select the Show Message check box to enable a pop-up message in your local host PC.</p>
Alarm Upload	<p>Select the Alarm Upload check box to enable the system to upload the alarm signal to the network (including alarm center) when an alarm event occurs.</p>
Send Email	<p>Select the Send Email check box to enable the system to send an email notification when an alarm event occurs.</p> <p> NOTE To use this function, make sure the email function is enabled in Main Menu > NETWORK > EMAIL.</p>
Record Channel	<p>Select the channel(s) that you want to record. The selected channel(s) starts recording after an alarm event occurs.</p> <p> NOTE The recording for motion detection and auto recording function must be enabled.</p>
PTZ	<p>Click Setting to display the PTZ interface.</p> <p>Enable PTZ activation function. For each PTZ camera, select the preset that you want to be called when an alarm event occurs.</p> <p> NOTE Motion Detect can only activate PTZ preset.</p>
Post Record	<p>Set a length of time for the Device to delay turning off recording after the alarm is cancelled. The value ranges from 10 seconds to 300 seconds, and the default value is 10 seconds.</p>
Tour	<p>Select the Tour check box to enable a tour of the selected channels.</p> <p> NOTE To use this function, make sure the tour is enabled and configured in Main Menu > DISPLAY > TOUR.</p>

Parameter	Description
Snapshot	Select the Snapshot check box to take a snapshot of the selected channel.  NOTE To use this function, make sure the following settings are configured: <ul style="list-style-type: none"> • The snapshot function is enabled for motion detect alarms in Main Menu > STORAGE > SCHEDULE > Snapshot. • Select Main Menu > CAMERA > Snapshot, in the Mode list, select Event.
Video Matrix	Select the check box to enable the function. When an alarm event occurs, the video output port outputs the settings configured in Main Menu > DISPLAY > TOUR .  NOTE Not all models support this function.
Buzzer	Select the check box to activate a buzzer noise at the Device.
Log	Select the check box to enable the Device to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a motion detection event.

Step 3 Click **Apply** to save the settings.

 **NOTE**

- Click **Default** to restore the default setting.
- Click **Copy**, in the **Copy** dialog box, select the additional channel(s) that you want to copy the motion detection settings to, and then click **Apply**.
- Click **Test** to test the settings.

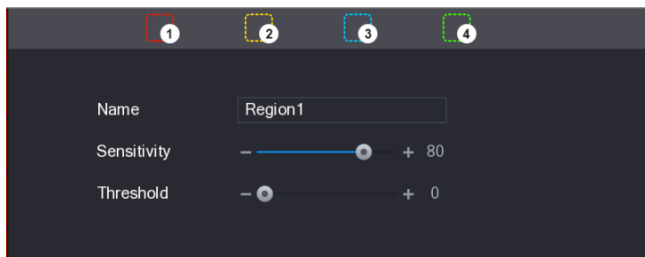
Setting the Motion Detection Region

Step 1 Next to **Region**, click **Setting**.


The region setting screen is displayed.

Step 2 Point to the middle top of the interface.

The setting interface is displayed.



Step 3 Configure the regions settings. You can configure totally four regions.

- 1) Select one region, for example, click .
- 2) Drag on the screen to select the region that you want to detect. The selected area shows the color that represents the region.
- 3) Configure the parameters.

Parameter	Description
Name	Enter a name for the region.
Sensitivity	Every region of every channel has an individual sensitivity value. The bigger the value is, the easier the alarms can be activated.
Threshold	Adjust the threshold for motion detect. Every region of every channel has an individual threshold.

 NOTE

When anyone of the four regions activates motion detect alarm, the channel where this region belongs to will activate motion detect alarm.

Step 4 Right-click on the screen to exit the region setting interface.

Step 5 On the **Motion Detect** interface, click **Apply** to complete the settings.

Setting Motion Detection Period

 NOTE






The system only activates the alarm in the defined period.

Step 1 Next to **Period**, click **Setting**.

The **Setting** interface is displayed.



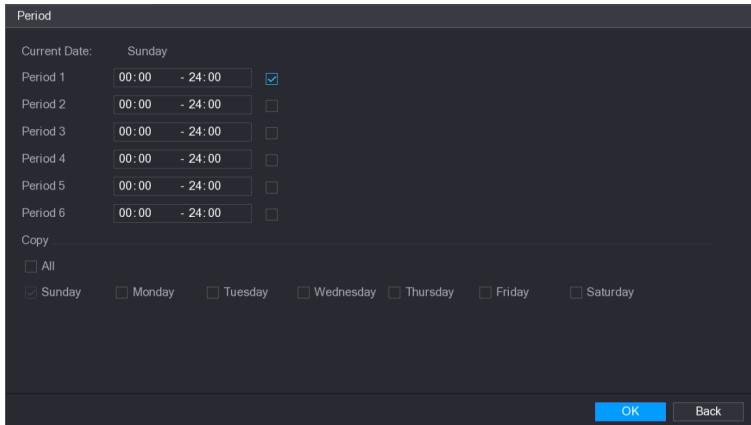
Step 2 Define the motion detection period. By default, it is active all the time.

- Define the period by drawing.
 - ◇ Define for a specified day of a week: On the timeline, click the half-hour blocks to select the active period.
 - ◇ Define for several days of a week: Click  before each day, the icon switches to . On the timeline of any selected day, click the half-hour blocks to select the active periods, all the days with  will take the same settings.
 - ◇ Define for all days of a week: Click **All**, all  switches to . On the timeline of any day, click the half-hour blocks to select the active periods, all the days will take the same settings.

- Define the period by editing. Take Sunday as an example.

1) Click .

The **Period** interface is displayed.



Period	Start Time	End Time	Enabled
Period 1	00:00	- 24:00	<input checked="" type="checkbox"/>
Period 2	00:00	- 24:00	<input type="checkbox"/>
Period 3	00:00	- 24:00	<input type="checkbox"/>
Period 4	00:00	- 24:00	<input type="checkbox"/>
Period 5	00:00	- 24:00	<input type="checkbox"/>
Period 6	00:00	- 24:00	<input type="checkbox"/>

Copy

All

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

OK Back

- 2) Enter the time frame for the period and select the check box to enable the settings.
- ◇ There are six periods for you to set for each day.
 - ◇ Under **Copy**, select **All** to apply the settings to all the days of a week, or select specific day(s) that you want to apply the settings to.
- 3) Click **OK** to save the settings.

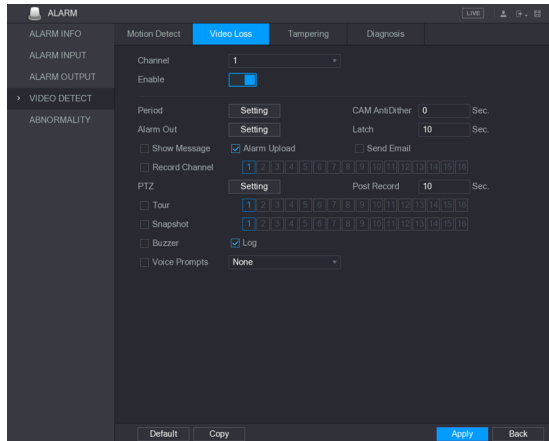
Step 3 On the **Motion Detect** interface, click **Apply** to complete the settings.

Configuring Video Loss Settings

When the video loss occurs, the system activates the alarm. To configure the motion detect settings, do the following:

Step 1 Select **Main Menu > ALARM > VIDEO DETECT > Video Loss**.

The **Video Loss** interface is displayed.



Step 2 Configure the settings for the video loss detection parameters”

Step 3 Click **Apply** to complete the settings.

NOTE

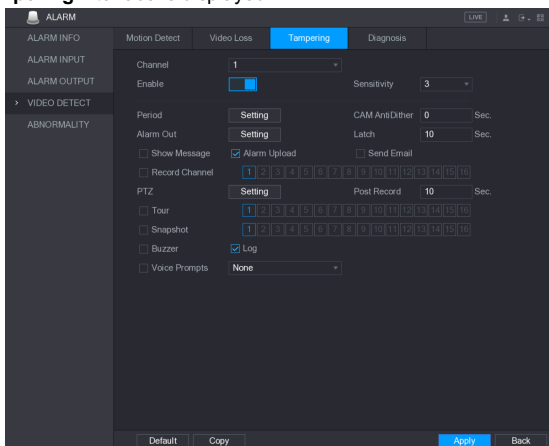
- Click **Default** to restore the default setting.
- Click **Copy**, in the **Copy** dialog box, select the additional channel(s) that you want to copy the motion detection settings to, and then click **Apply**.

Configuring Tampering Settings

When the camera lens is covered, or the video is displayed in a single color because of the causes such as sunlight status, the monitoring cannot be continued normally. To avoid such situations, you can configure the tampering alarm settings.

Step 1 Select **Main Menu > ALARM > VIDEO DETECT > Tampering**.

The **Tampering** interface is displayed.



Step 2 Configure the settings for the tampering detection

Step 3 Click **Apply** to complete the settings.

 NOTE

- Click **Default** to restore the default setting.
- Click **Copy**, in the **Copy** dialog box, select the additional channel(s) that you want to copy the motion detection settings to, and then click **Apply**.

Configuring Diagnosis Settings

 NOTE

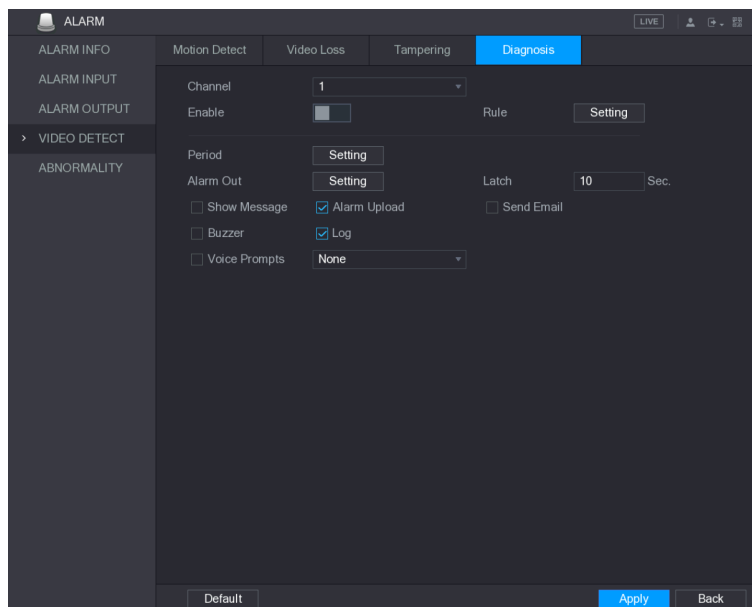
This function can be used only when it is supported by the camera.

When the video appear the conditions such as blurry, overexposed, or the color changes, the system activates the alarm.

To configure the diagnosis settings, do the following:

Step 1 Select **Main Menu > ALARM > VIDEO DETECT > Diagnosis**.

The **Diagnosis** interface is displayed.



Step 2 Configure the settings for the diagnosis parameters"

Step 3 Click **Apply** to complete the settings.

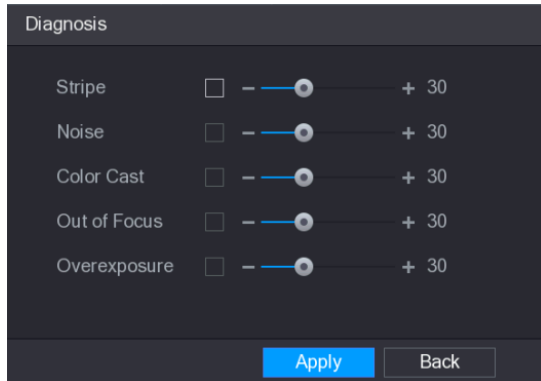
 NOTE

Click **Default** to restore the default setting.

Setting the Types for Diagnosing Targets

Step 1 Next to **Rule**, click **Setting**.

The **Diagnosis** interface is displayed.



Step 2 Select the items that you want to diagnose and set the threshold (30 by default).

Parameter	Description
Stripe	A horizontal, vertical or diagonal stripe that might appear in the video because of device aging or electronic interruption. Such stripe brings visual interruption.
Noise	Video noises such as blurriness or quality reduction that is caused by optical distortion or device problem during camera shooting.
Color Cast	Variances in the normal proportions of RGB colors.
Out of Focus	Blurry video is caused during camera shooting, transferring and processing. Such condition is a common image quality reduction problem and defined as out of focus.
Overexposure	The video brightness refers to the intensity of image pixel. The range is between 0 (the darkest black) and 255 (the brightest white). If the brightness exceeds the threshold, the image is over exposed.
Threshold	The range is from 1 through 100. If the value after diagnosing is higher than what you set, the system activates the alarm to the corresponding diagnosing types such as stripe.

Step 3 Click **OK** to save the settings.

The system returns to the **Diagnosis** interface.

Step 4 Click **Apply** to complete the settings.

NOTE

Click **Default** to restore the default setting.

IVS Function

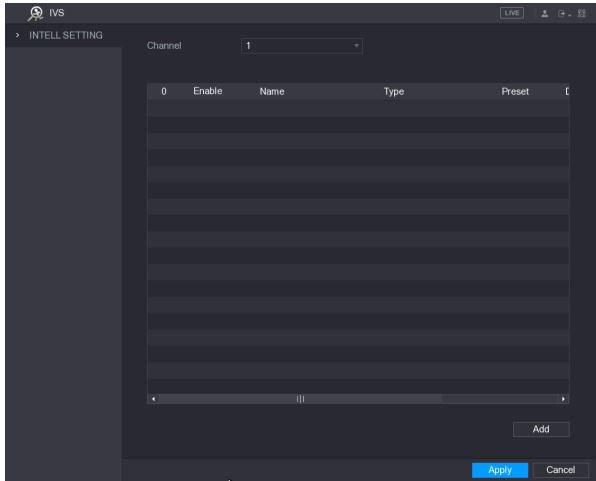
NOTE

Please disable IP channels function first before using IVS function.

IVS function processes and analyzes the images to extract the key information to match with the preset rules. When the detected behaviors match with the rules, the system activates alarms.

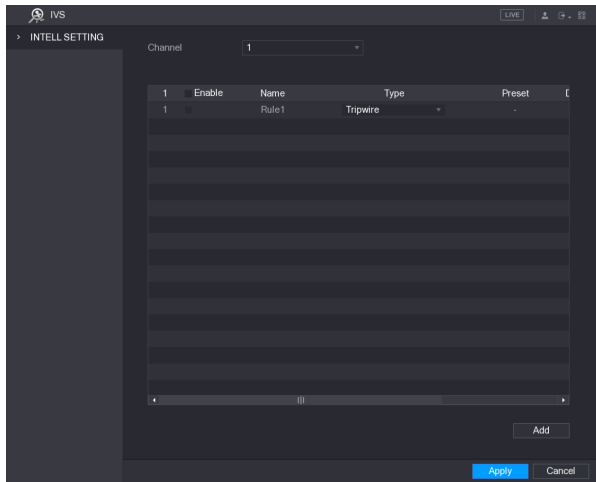
Step 1 Select **Main Menu > IVS > INTELL SETTING**.

The **INTELL SETTING** interface is displayed.



Step 2 In the **Channel** list, select the channel number that you want to configure the IVS function for.

Step 3 Click **Add**.
One line of rule is displayed.



Step 4 Configure the parameters for the rule that you selected.

Step 5 Select the check box of the rule to enable it.

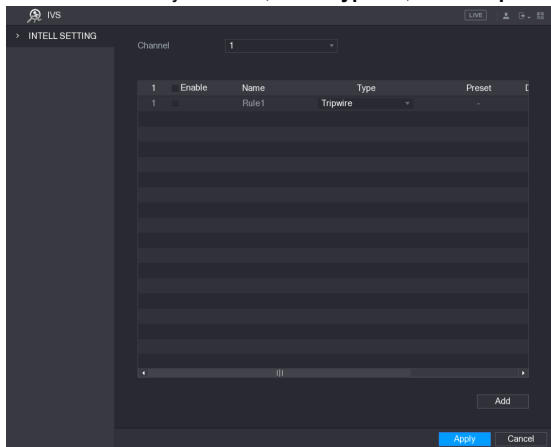
Step 6 Click Apply to complete the settings.

Configuring Tripwire Rules


When the target object crosses the tripwire in the defined direction, the system activates alarms.

- The tripwire can be configured as a straight line or broken line.

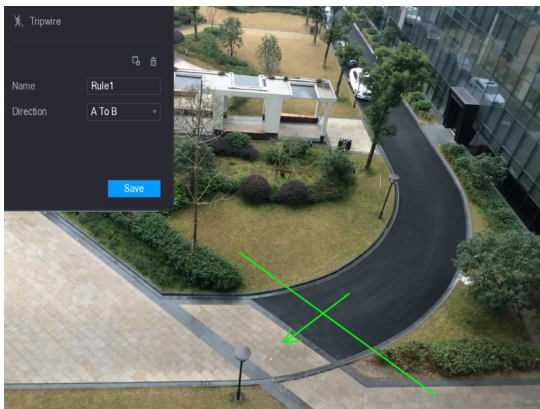
- Supports detecting one-way or two-way tripwire crossing.
 - Supports multiple tripwires in the same scenario to meet the complexity.
 - Supports size filtering for target.
- Step 1** On the rule line that you added, in the **Type** list, select **Tripwire**.





Step 2 Draw a tripwire.

- 1) In the **Channel** list, select the channel that you want to configure the rules for.
- 2) Click .

The monitoring screen to configure the tripwire rules is displayed.




- 3) Configure the settings for the parameters of drawing rules.

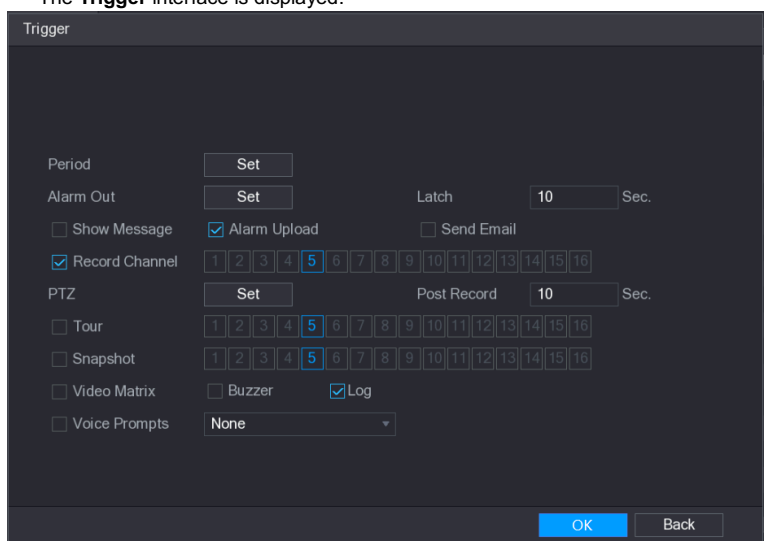
Parameter	Description
Name	Enter the customized rule name.
Direction	Set the direction of the tripwire. You can choose A to B (left to right), B to A (right to left), and Both .
Filtering Target	Click  to draw areas to filter the target.  NOTE

Parameter	Description
	You can configure two filtering targets (maximum size and minimum size). When the target that is crossing the tripwire is smaller than the minimum size or larger than the maximum size, no alarms will be activated. The maximum size should be larger than the minimum size.

- 4) Drag to draw a tripwire. The tripwire can be a straight line, broken line or polygon.
- 5) Click **Save** to save the settings.

Step 3 Click  to set the actions to be triggered.

The **Trigger** interface is displayed.



Step 4 Configure the triggering parameters.

Parameter	Description
Period	Click Set to display set interface. Define a period during which the motion detection is active.
Alarm Out	Click Setting to display setting interface. <ul style="list-style-type: none"> ● General Alarm: Enable alarm activation through the alarm devices connected to the selected output port. ● External Alarm: Enable alarm activation through the connected alarm box. ● Wireless Siren: Enable alarm activation through devices connected by USB gateway or camera gateway.
Latch	Set a length of time for the Device to delay turning off alarm after the external alarm is cancelled. The value ranges from 0 seconds to 300 seconds, and the default value is 10 seconds.
Show Message	Select the Show Message check box to enable a pop-up message in your local host PC.

Parameter	Description
Alarm Upload	Select the Alarm Upload check box to enable the system to upload the alarm signal to the network (including alarm center) when an alarm event occurs.
Send Email	Select the Send Email check box to enable the system to send an email notification when an alarm event occurs.
Record Channel	Select the channel(s) that you want to record. The selected channel(s) starts recording after an alarm event occurs.
PTZ	Click Set to display the PTZ interface. Enable PTZ activation function. For each PTZ camera, select the preset that you want to be called when an alarm event occurs.
Post Record	Set a length of time for the Device to delay turning off recording after the alarm is cancelled. The value ranges from 10 seconds to 300 seconds, and the default value is 10 seconds.
Tour	Select the Tour check box to enable a tour of the selected channels.
Snapshot	Select the Snapshot check box to take a snapshot of the selected channel.
Video Matrix	Select the check box to enable the function. When an alarm event occurs, the video output port outputs the settings configured in " Main Menu > Display > Tour. "
Buzzer	Select the check box to activate a buzzer noise at the Device.
Log	Select the check box to enable the Device to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a motion detection event.

Step 5 Click **Apply** to save the settings.

The **INTELL SETTING** interface is displayed.

Step 6 Select the **Enable** check box, and then click **Apply**.

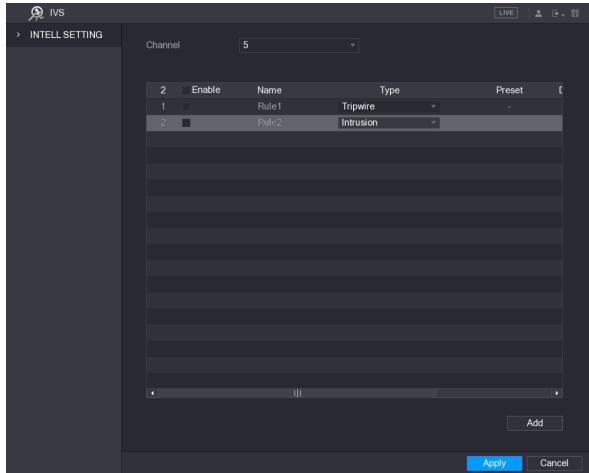
The tripwire detecting function is active. When the target object crosses the tripwire in the defined direction, the system activates alarms.

Configuring Intrusion Rules


When the target enters and leaves the area, or the target appears in the defined area, the system activates alarms.

- You can define the shape and quantity of intrusion areas.
- Supports detecting the behaviors that enter and leave the intrusion areas.
- Supports detecting the behaviors that are moving in the intrusion areas. The quantity of areas and lasting time can be configured.
- Supports size filtering for target.

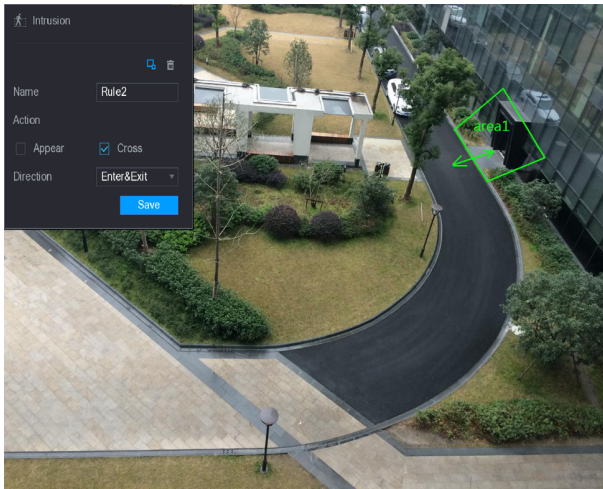
Step 1 On the rule line that you added, in the **Type** list, select **Intrusion**.




Step 2 Draw a tripwire.


- 1) In the **Channel** list, select the channel that you want to configure the rules for.
- 2) Click .

The monitoring screen to configure the intrusion rules is displayed.




- 3) Configure the settings for the parameters of drawing rules.

Parameter	Description
Name	Enter the customized rule name.
Action	Configure the actions that are defined as intrusion. You can select the Appear check box and the Cross check box.
Direction	In the Direction list, select the direction of crossing the configured area. You can select Enter&Exit , Enters , and Exits .
Filtering Target	Click  to draw areas to filter the target.

Parameter	Description
	 NOTE You can configure two filtering targets (maximum size and minimum size). When the target that is crossing the tripwire is smaller than the minimum size or larger than the maximum size, no alarms will be activated. The maximum size should be larger than the minimum size.

- 4) Drag to draw an area.
- 5) Click **Save** to save the settings.

Step 3 Click  to set the actions to be triggered."

Step 4 Select the **Enable** check box, and then click **Apply**.

The intrusion detecting function is active. When the target enters and leaves the area, or the target appears in the defined area, the system activates alarms.

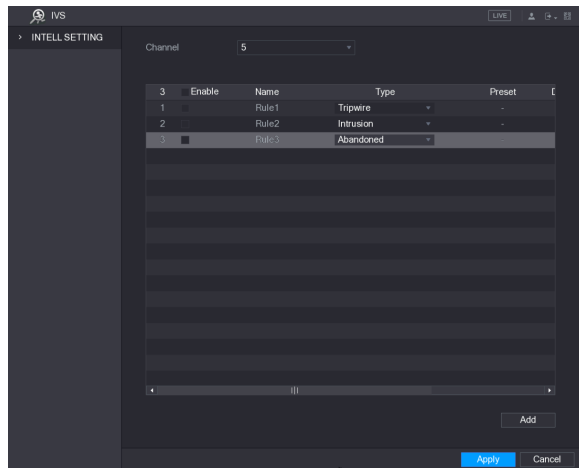
Configuring Abandoned Rules

When the object is placed in the defined detection area for more than the set time, the system activates alarms.

- You can define the shape and quantity of intrusion areas.
- Period value can be configured.
- Supports size filtering for target.

Step 1 On the rule line that you added, in the **Type** list, select **Abandoned**.

The **Abandoned** interface is displayed.

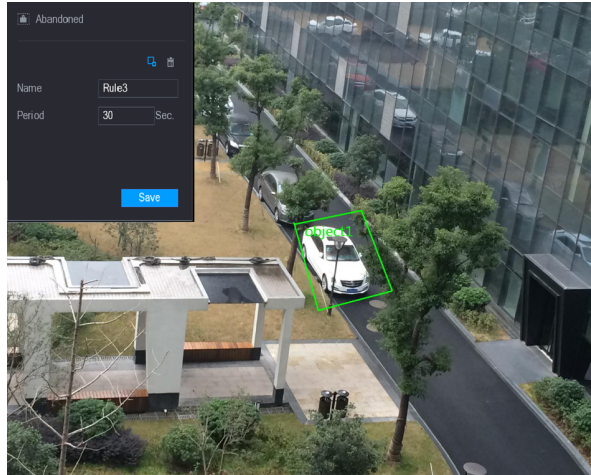


Step 2 Draw an area.



- 1) In the **Channel** list, select the channel that you want to configure the rules for.

- 2) Click .

The monitoring screen to configure the abandoned rules is displayed.




3) Configure the settings for the parameters of drawing rules.

Parameter	Description
Name	Enter the customized rule name.
Period	Configure the minimum time period for activating alarms by detecting the abandoned objects.
Filtering Target	Click  to draw areas to filter the target.  NOTE You can configure two filtering targets (maximum size and minimum size). When the target that is crossing the tripwire is smaller than the minimum size or larger than the maximum size, no alarms will be activated. The maximum size should be larger than the minimum size.

4) Drag to draw an area.

5) Click **Save** to save the settings.

Step 3 Click  to set the actions to be triggered."

Step 4 Select the **Enable** check box, and then click **Apply**.

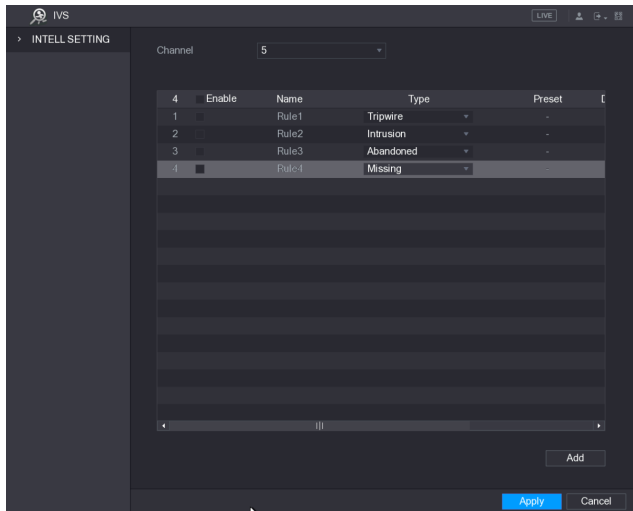
The abandoned object detecting function is active. When the object is placed in the defined detection area for more than the set time, the system activates alarms.

Configuring Missing Rules


When the target is taken away from the defined area exceeds the set time, the system activates alarms.

Step 1 On the rule line that you added, in the **Type** list, select **Missing**.

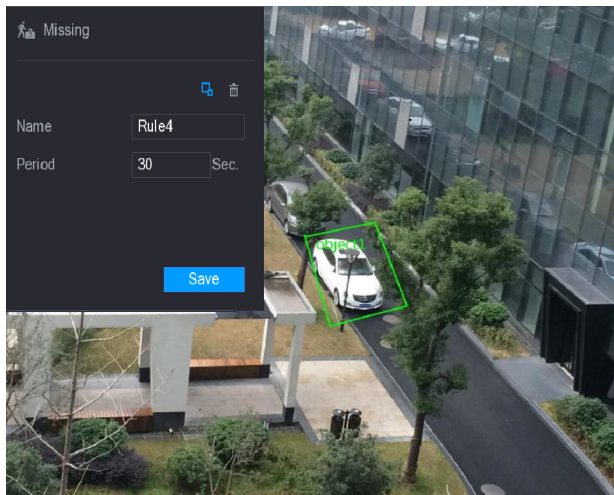
The **Missing** interface is displayed.




Step 2 Draw an area.


- 1) In the **Channel** list, select the channel that you want to configure the rules for.
- 2) Click .

The monitoring screen to configure the missing rules is displayed.




- 3) Configure the settings for the parameters of drawing rules.

Parameter	Description
Name	Enter the customized rule name.
Period	Configure the minimum time period for activating alarms by detecting the missing objects.
Filtering Target	Click  to draw areas to filter the target.

Parameter	Description
	 NOTE You can configure two filtering targets (maximum size and minimum size). When the target that is crossing the tripwire is smaller than the minimum size or larger than the maximum size, no alarms will be activated. The maximum size should be larger than the minimum size.

- 4) Drag to draw an area.
- 5) Click **Save** to save the settings.

Click  to set the actions to be triggered.

Step 3 Select the **Enable** check box, and then click **Apply**.

The missing object detecting function is active. When the target is taken away from the defined area exceeds the set time, the system activates alarms.

Face Detection

You can configure the face detection settings and search the detected faces in the defined time period.

Configuring Face Detection Settings

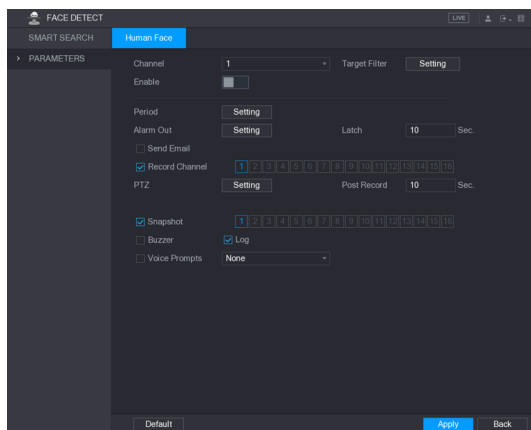
When the Device detects the human faces, the system activates alarms.

 **NOTE**

- Not all models support this function.
- Smart IPC must be equipped with face detect function.






Step 1 Select **Main Menu > FACE DETECT > Parameters**.

The **Human Face** interface is displayed.



Step 2 Configure the settings for the face detection parameters.

Parameter	Description
Channel	In the Channel list, select a channel to set the face detection.

Parameter	Description
Target Filter	<p>Click Setting to draw areas to filter the target.</p> <p> NOTE You can configure two filtering targets (maximum size and minimum size). When the target is smaller than the minimum size or larger than the maximum size, no alarms will be activated. The maximum size should be larger than the minimum size.</p>
Enable	Enable or disable the face detection function.
Period	Define a period during which the motion detection is active.
Alarm Out	<p>Click Setting to display setting interface.</p> <p>Enable alarm activation function. Select the alarm output port(s) to which the peripheral alarm devices are connected. When an alarm event occurs, the system activates the peripheral alarm devices connected to the selected output port.</p>
Latch	Set a length of time for the Device to delay turning off alarm after the external alarm is cancelled. The value ranges from 0 seconds to 300 seconds, and the default value is 10 seconds. If you enter 0, there will be no delay.
Send Email	<p>Select the Send Email check box to enable the system to send an email notification when an alarm event occurs.</p> <p> NOTE To use this function, make sure the email function is enabled in Main Menu > NETWORK > EMAIL.</p>
Record Channel	<p>Select the channel(s) that you want to record. The selected channel(s) starts recording after an alarm event occurs.</p> <p> NOTE The recording for intelligence event and auto recording function must be enabled.</p>
PTZ	<p>Click Setting to display the PTZ interface.</p> <p>Enable PTZ activation function. For each PTZ camera, select the preset that you want to be called when an alarm event occurs.</p> <p> NOTE Motion Detect can only activate PTZ preset.</p>
Post Record	Set a length of time for the Device to delay turning off recording after the alarm is cancelled. The value ranges from 10 seconds to 300 seconds, and the default value is 10 seconds.
Snapshot	<p>Select the Snapshot check box to take a snapshot of the selected channel.</p> <p> NOTE To use this function, make sure the following settings are configured:</p> <ul style="list-style-type: none"> • The snapshot function is enabled for motion detect alarms in Main Menu > STORAGE > SCHEDULE > Snapshot. • Select Main Menu > CAMERA > ENCODE > Snapshot, in the Mode list, select Event.
Buzzer	Select the check box to activate a buzzer noise at the Device.

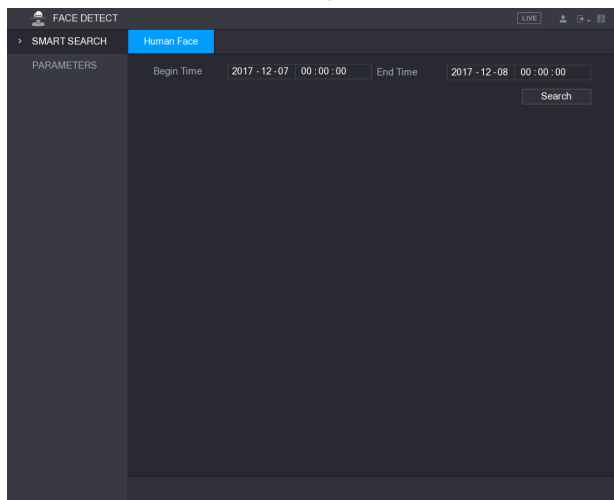
Parameter	Description
Log	Select the check box to enable the Device to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a human face detection event.

Step 3 Click **Apply** to complete the settings.

Searching for Detected Faces

Step 1 Select **Main Menu > FACE DETECT > SMART SEARCH**.

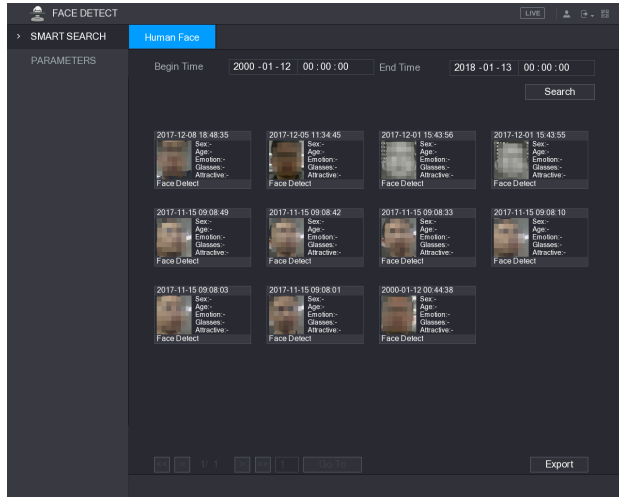
The **SMART SEARCH** interface is displayed.



Step 2 In the **Begin Time** box and **End Time** box, enter the time.

Step 3 Click **Search**.

The faces searched in the defined period display.



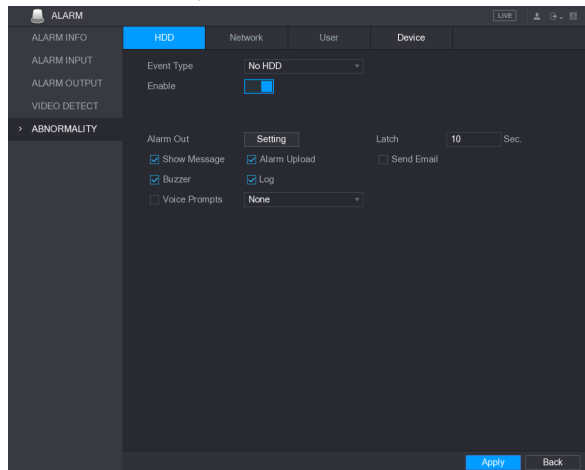
System Events

You can configure the alarm output for three types of system event (HDD, Network, and User). When there is an abnormal system event occurs, the system activates alarms in the way that you configure in this section.


Configuring HDD Event Settings

Step 1 Select **Main Menu > ALARM > ABNORMITY > HDD**.

The **HDD** interface is displayed.



Step 2 Configure the settings for the HDD event.

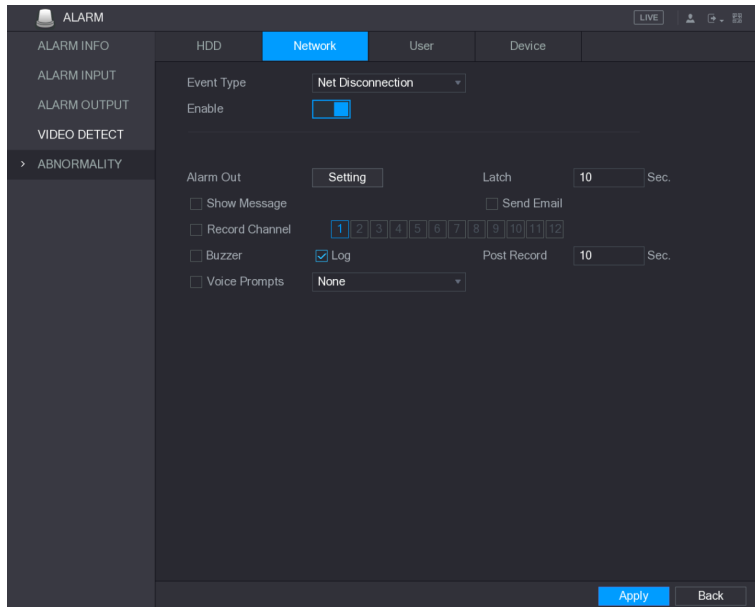
Parameter	Description
Event Type	In the Event Type list, select No HDD , HDD Error , or HDD No Space as the event type.
Enable	Enable or disable the HDD event detection function.
Alarm Out	Click Setting to display setting interface. <ul style="list-style-type: none"> ● General Alarm: Enable alarm activation through the alarm devices connected to the selected output port. ● External Alarm: Enable alarm activation through the connected alarm box. ● Wireless Siren: Enable alarm activation through devices connected by USB gateway or camera gateway.
Latch	Set a length of time for the Device to delay turning off alarm after the external alarm is cancelled. The value ranges from 10 seconds to 300 seconds, and the default value is 10 seconds.
Show Message	Select the Show Message check box to enable a pop-up message in your local host PC.
Alarm Upload	Select the Alarm Upload check box to enable the system to upload the alarm signal to the network (including alarm center) when an alarm event occurs.
Send Email	Select the Send Email check box to enable the system to send an email notification when an alarm event occurs.  NOTE To use this function, make sure the email function is enabled in Main Menu > NETWORK > EMAIL .
Buzzer	Select the check box to activate a buzzer noise at the Device.
Log	Select the check box to enable the Device to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a HDD alarm event.

Step 3 Click **Apply** to complete the settings.

Configuring Network Event Settings

Step 1 Select **Main Menu > ALARM > ABNORMITY > Network**.

The **Network** interface is displayed.



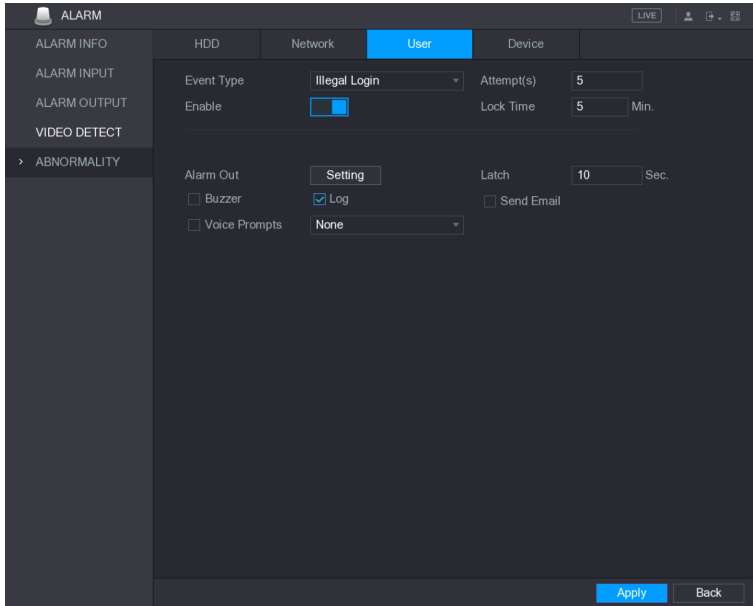
Step 2 Configure the settings for the Network event.

Parameter	Description
Event Type	In the Event Type list, select Net Disconnection , IP Conflicted , or MAC Conflicted as the event type.
Enable	Enable or disable the Network event detection function.
Alarm Out	Click Setting to display setting interface. <ul style="list-style-type: none"> General Alarm: Enable alarm activation through the alarm devices connected to the selected output port. External Alarm: Enable alarm activation through the connected alarm box. Wireless Siren: Enable alarm activation through devices connected by USB gateway or camera gateway.
Latch	Set a length of time for the Device to delay turning off alarm after the external alarm is cancelled. The value ranges from 10 seconds to 300 seconds, and the default value is 10 seconds.
Show Message	Select the Show Message check box to enable a pop-up message in your local host PC.
Send Email	Select the Send Email check box to enable the system to send an email notification when an alarm event occurs. NOTE To use this function, make sure the email function is enabled in Main Menu > NETWORK > EMAIL .
Buzzer	Select the check box to activate a buzzer noise at the Device.
Log	Select the check box to enable the Device to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a network alarm event.

Step 3 Click **Apply** to complete the settings.


Configuring User Event Settings

Step 1 Select **Main Menu > ALARM > ABNORMALITY > User**.
The **User** interface is displayed.



Step 2 Configure the settings for the User event.

Parameter	Description
Event Type	In the Event Type list, select Illegal Login .
Enable	Enable the user error detection function. If you do not enable this function, there will be no limit for wrong password entry and the account cannot be locked because of the wrong password.
Attempt(s)	Set the maximum number of allowable wrong password entries. The account will be locked after your entries exceed the maximum number.
Lock Time	Set how long the account is locked for. The value ranges from 1 minute to 60 minutes.
Alarm Out	Click Setting to display setting interface. <ul style="list-style-type: none"> General Alarm: Enable alarm activation through the alarm devices connected to the selected output port. External Alarm: Enable alarm activation through the connected alarm box. Wireless Siren: Enable alarm activation through devices connected by USB gateway or camera gateway.

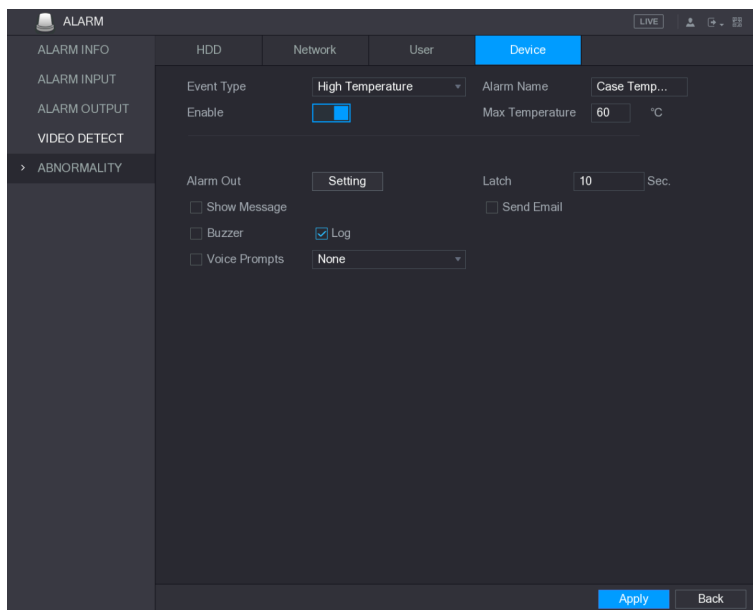
Parameter	Description
Latch	Set a length of time for the Device to delay turning off alarm after the external alarm is cancelled. The value ranges from 10 seconds to 300 seconds, and the default value is 10 seconds.
Send Email	Select the Send Email check box to enable the system to send an email notification when an alarm event occurs.  NOTE To use this function, make sure the email function is enabled in Main Menu > NETWORK > EMAIL .
Buzzer	Select the check box to activate a buzzer noise at the Device.
Log	Select the check box to enable the Device to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a user account alarm event.

Step 3 Click **Apply** to complete the settings.

Configuring Device Event Settings


Step 1 Select **Main Menu > ALARM > ABNORMALITY > Device**.

The **Device** interface is displayed.



Step 2 Configure the settings for the device event.

Parameter	Description
Event Type	In the Event Type list, select High Temperature or Fan Speed Abnormal .
Alarm Name	Enter the name for the event type.
Enable	Enable the device event detection function.

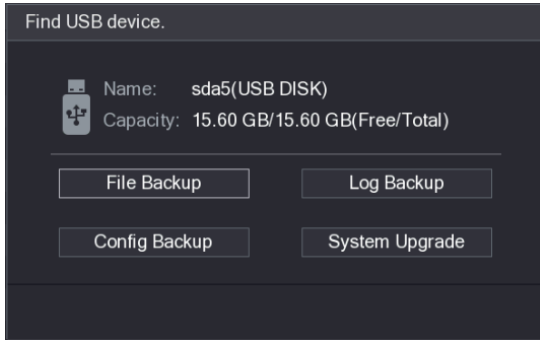
Parameter	Description
Max Temperature	In the Max Temperature box, enter the max temperature value.
Alarm Out	Click Setting to display setting interface. <ul style="list-style-type: none"> ● General Alarm: Enable alarm activation through the alarm devices connected to the selected output port. ● External Alarm: Enable alarm activation through the connected alarm box. ● Wireless Siren: Enable alarm activation through devices connected by USB gateway or camera gateway.
Latch	Set a length of time for the Device to delay turning off alarm after the external alarm is cancelled. The value ranges from 10 seconds to 300 seconds, and the default value is 10 seconds.
Send Email	Select the Send Email check box to enable the system to send an email notification when an alarm event occurs.  NOTE To use this function, make sure the email function is enabled in Main Menu > NETWORK > EMAIL .
Buzzer	Select the check box to activate a buzzer noise at the Device.
Log	Select the check box to enable the Device to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a Device alarm event.

Step 3 Click **Apply** to complete the settings.

Configuring Backup Settings

Finding USB Device

When you insert a USB storage device into the USB port of the Device, the Device detects the USB storage device and pops up "Find USB device" interface, which provides you a shortcut to perform backup and upgrading operations.

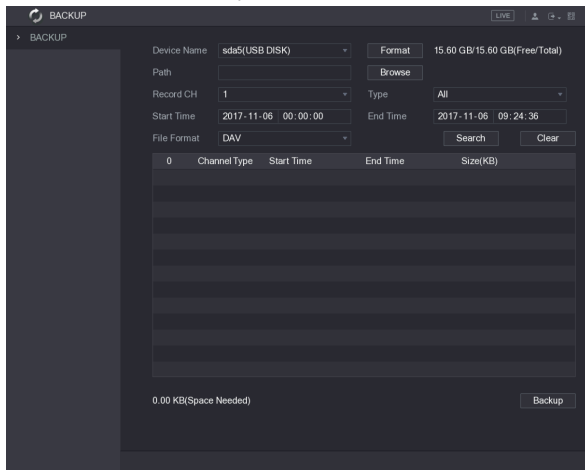


Backing up Files

You can back up the recorded videos and snapshots.

Step 1 Select **Main Menu > BACKUP**.

The **BACKUP** interface is displayed.



Step 2 Configure the settings for the backup parameters.

Parameter	Description
Device Name	In the Device Name list, select the device that you want to back up the files to.
Format	Click Format to format the selected device.
Path	Click Browse , the Browse interface is displayed. Select the route where you want to search for the files.
Record CH	In the Record CH list, select the channel where you want to search for the files.
Type	In the Type list, select the file type that you want to search.
Start Time	Enter the start time and end time for the files that you want to search.
End Time	

Parameter	Description
File Format	In the File Format list, select the file format that you want to search.

Step 3 Click **Search** to search the files that meet the configured settings.
The searched results will display in the table.

Step 4 Select the files that you want to back up.

Step 5 Click **Backup** to back up the selected files to the configured path.

 **NOTE**

Click **Clear** to remove all the searched results.

Network Management

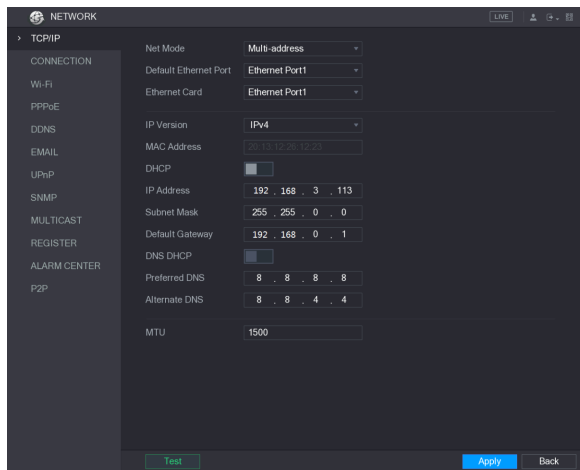
Configuring Network Settings

You can ensure the network interworking between the Device and other devices through configuring the network settings.

Configuring TCP/IP Settings

You can configure the settings for the Device such as IP address, DNS according to the networking plan.

Select **Main Menu > NETWORK > TCP/IP**, the **TCP/IP** interface is displayed."

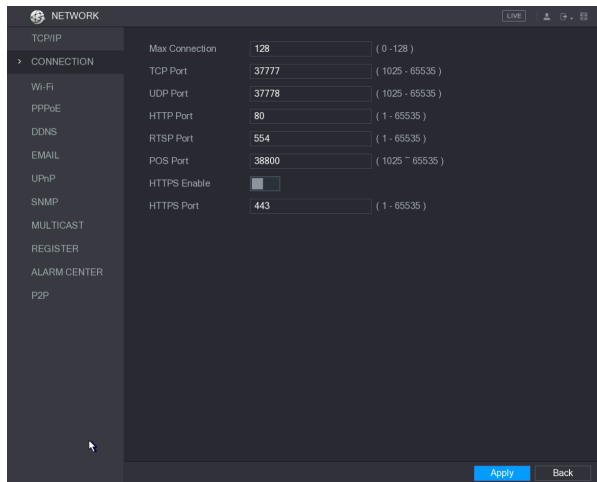


Configuring Port Settings

You can configure the maximum connection accessing the system.

Step 1 Select **Main Menu > NETWORK > CONNECTION**.

The **CONNECTION** interface is displayed.



Step 2 Configure the settings for the connection parameters.

 **NOTE**

The connection parameters except Max Connection cannot take effects until the Device has been restarted.

Parameter	Description
Max Connection	The allowable maximum clients accessing the Device at the same time, such as WEB, Platform, and Mobile Phone. Select a value between 1 and 128. The default value setting is 128.
TCP Port	The default value setting is 37777. You can enter the value according to your actual situation.
UDP Port	The default value setting is 37778. You can enter the value according to your actual situation.
HTTP Port	The default value setting is 80. You can enter the value according to your actual situation. If you enter other value, for example, 70, and then you should enter 70 after the IP address when logging in the Device by browser.
RTSP Port	The default value setting is 554. You can enter the value according to your actual situation.
POS Port	Data transmission. The value range is from 1 through 65535. The default value is 38800.
HTTPS Enable	Enable HTTPS .
HTTPS Port	HTTPS communication port. The default value setting is 443. You can enter the value according to your actual situation.

Step 3 Click **Apply** to complete the settings.

Configuring Wi-Fi Connection Settings

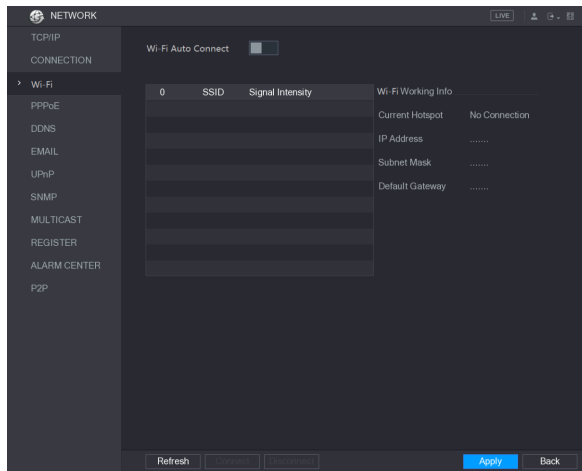
You can make wireless connection between the Device and the other devices in the same network through Wi-Fi settings, facilitating the devices connection and mobility.

 **NOTE**

Only the Device with Wi-Fi module supports this function.

Step 1 Select **Main Menu > NETWORK > Wi-Fi**.

The **Wi-Fi** interface is displayed.



Step 2 Configure the settings for the Wi-Fi connection parameters.

Parameter	Description
Wi-Fi Auto Connect	Enable Wi-Fi Auto Connect . After the Device is restarted, it will automatically connect to the nearest hotspot that had been connected successfully.
Refresh	Refresh the hotspot list. The self-adaption function such as adding password is supported if such setting was once configured.
Connect	In the hotspots list, select a hotspot, and then click Connect . <ul style="list-style-type: none"> To reconnect the same hotspot, disconnect first and then reconnect. To connect to other hotspot, disconnect from the current connected hotspot first, and then connect to the other hotspot.
Disconnect	To disconnect from a hotspot, click Disconnect .

Step 3 Click **Apply** to complete the settings.

After the Device is connected to a Wi-Fi hotspot, in the **Wi-Fi Working Info** area, the current hotspot, IP address, subnet mask, and default gateway are displayed.

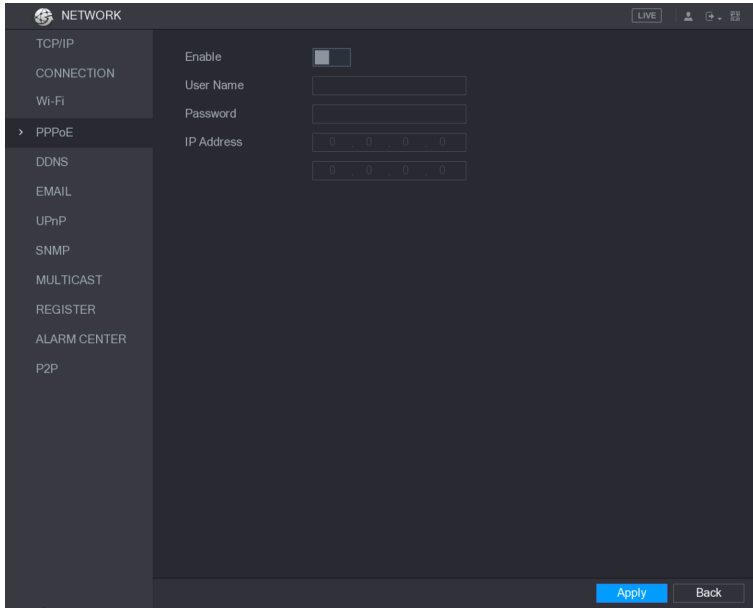
Configuring PPPoE Settings

PPPoE is another way for the Device to access the network. You can establish network connection by configuring PPPoE settings to give the Device a dynamic IP address in the

WAN. To use this function, firstly you need to obtain the user name and password from the Internet Service Provider.

Step 1 Select **Main Menu > NETWORK > PPPoE**.

The **PPPoE** interface is displayed.



Step 2 Enable the PPPoE function.

Step 3 In the **User Name** box and **Password** box, enter the user name and password accordingly provided by the Internet Service Provider.

Step 4 Click **Apply** to complete the settings.

The system pops up a message to indicate the successfully saved. The IP address appears on the PPPoE interface. You can use this IP address to access the Device.

 **NOTE**

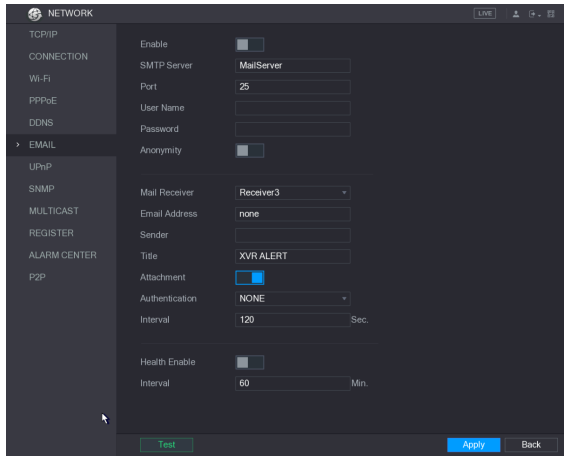
When the PPPoE function is enabled, the IP address on the **TCP/IP** interface cannot be modified.

Configuring EMAIL Settings


You can configure the email settings to enable the system to send the email as a notification when there is an alarm event occurs.

Step 1 Select **Main Menu > NETWORK > EMAIL**.

The **EMAIL** interface is displayed.



Step 2 Configure the settings for the email parameters.

Parameter	Description
Enable	Enable the email function.
SMTP Server	Enter the address of SMTP server of sender's email account.
Port	Enter the port value of SMTP server. The default value setting is 25. You can enter the value according to your actual situation.
User Name	Enter the user name and password of sender's email account.
Password	
Anonymity	If enable the anonymity function, you can login as anonymity.
Mail Receiver	In the Mail Receiver list, select the number of receiver that you want to receive the notification. The Device supports up to three mail receivers.
Email Address	Enter the email address of mail receiver(s).
Sender	Enter the sender's email address. It supports maximum three senders separated by comma.
Title	Enter the email subject. Supports Chinese, English and Arabic numerals. It supports maximum 64 characters.
Attachment	Enable the attachment function. When there is an alarm event, the system can attach snapshots as an attachment to the email.
Authentication	Select the encryption type: NONE , SSL , or TLS .
Interval (Sec.)	This is the interval that the system sends an email for the same type of alarm event, which means, the system does not send an email upon any alarm event. This setting helps to avoid the large amount of emails caused by frequent alarm events. The value ranges from 0 to 3600. 0 means that there is no interval.
Health Enable	Enable the health test function. The system can send a test email to check the connection.
Interval (Min.)	This is the interval that the system sends a health test email. The value ranges from 30 to 1440. 0 means that there is no interval.
Test	Click Test to test the email sending function. If the configuration is correct, the receiver's email account will receive the email.  NOTE Before testing, click Apply to save the settings.

Step 3 Click **Apply** to complete the settings.

Configuring UPnP Settings

You can map the relationship between the LAN and the WAN to access the Device on the LAN through the IP address on the WAN.

Preparation for Configuration

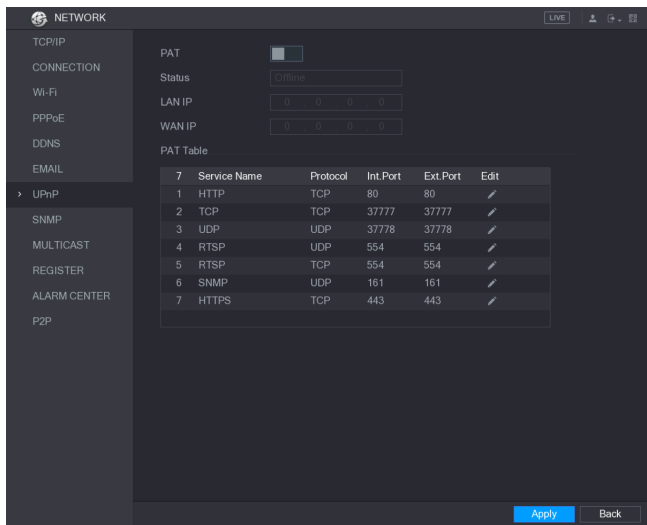
- Login the router to set the WAN port to enable the IP address to connect into the WAN.

- Enable the UPnP function at the router.
- Connect the Device with the LAN port on the router to connect into the LAN.
- Select **Main Menu > NETWORK > TCP/IP**, configure the IP address into the router IP address range, or enable the DHCP function to obtain an IP address automatically.





Configuration Steps

Step 1 Select **Main Menu > NETWORK > UPnP**.

The **UPnP** interface is displayed.



Step 2 Configure the settings for the UPnP parameters.

Parameter	Description
PAT	Enable the UPnP function.
Status	Indicates the status of UPnP function. <ul style="list-style-type: none"> ● Offline: Failed. ● Online: Succeeded.
LAN IP	Enter IP address of router on the LAN.  NOTE After mapping succeeded, the system obtains IP address automatically without performing any configurations.
WAN IP	Enter IP address of router on the WAN.  NOTE After mapping succeeded, the system obtains IP address automatically without performing any configurations.
PAT Table	The settings in PAT table correspond to the UPnP PAT table on the router. <ul style="list-style-type: none"> ● Service Name: Name of network server. ● Protocol: Type of protocol. ● Int. Port: Internal port that is mapped on the Device. ● Ext. Port: External port that is mapped on the router.  NOTE <ul style="list-style-type: none"> ● To avoid the conflict, when setting the external port, try to use the ports from 1024 through 5000 and avoid popular ports from 1 through 255 and system ports from 256 through 1023. ● When there are several devices in the LAN, please reasonably arrange the ports mapping to avoid mapping to the same external port. ● When establishing a mapping relationship, please ensure the mapping ports are not occupied or limited. ● The internal and external ports of TCP and UDP must be the same and cannot be modified. <ul style="list-style-type: none"> ● Click  to modify the external port.

Step 3 Click **Apply** to complete the settings.

In the browser, enter <http://WAN IP: External IP port>. You can visit the LAN Device.

Configuring P2P Settings

You can manage the devices by using P2P technology to download the application and register the devices."

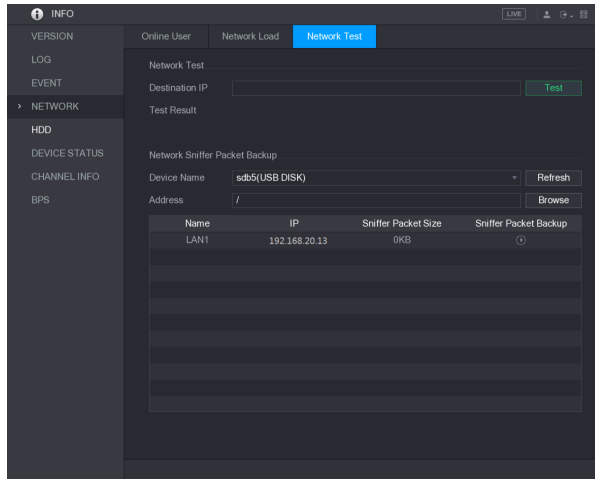
Configuring Network Testing Settings

Testing the Network

You can test the network connection status between the Device and other devices.

Step 1 Select **Main Menu > INFO > NETWORK > Test**.

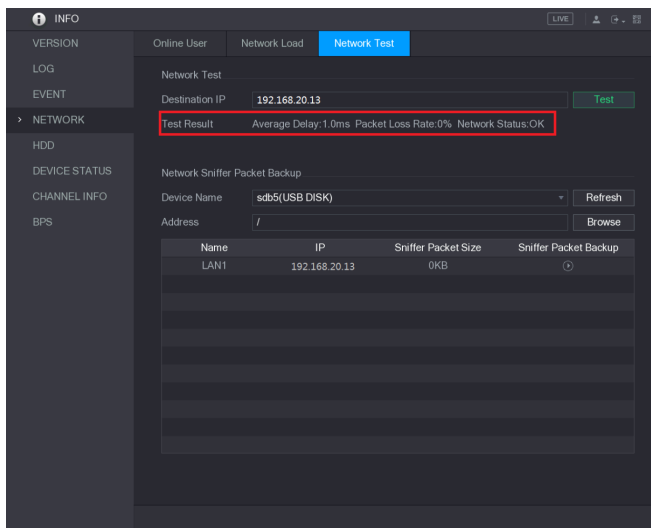
The **Test** interface is displayed.



Step 2 In the **Destination IP** box, enter the IP address.

Step 3 Click **Test**.

After testing is completed, the test result is displayed. You can check the evaluation for average delay, packet loss, and network status.



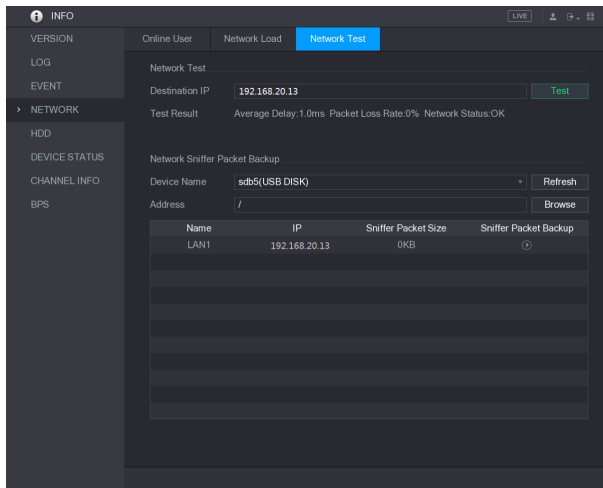
Capturing Packet and Backing up

Packet capture means the operations such as capturing, resending, and editing data that are sent and received during network transmission. When there is network abnormality, you can

perform packet capturing and back up into the USB storage device. This data can be provided to the technical support for analyzing the network condition.

Step 1 Select **Main Menu > INFO > NETWORK > Network Test**.

The **Network Test** interface is displayed.



Step 2 Connect a USB storage device to the Device.

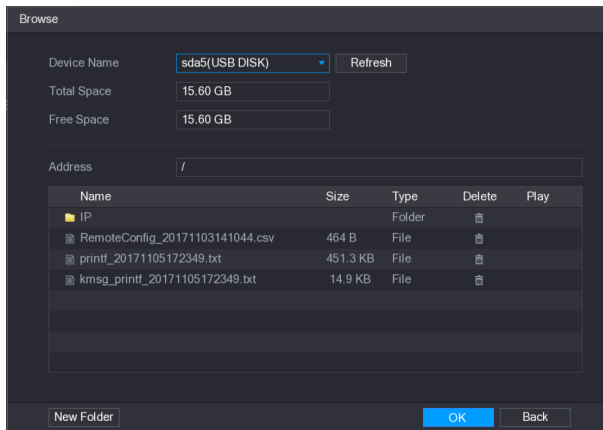
Step 3 Click **Fresh**.

The Device starts detecting the USB storage device and displays its name in the **Device Name** box.

Step 4 Select the route of the data that you want to capture and back up.

1) In the Network Sniffer Packet Backup, click **Browse**.


The **Browse** interface is displayed.




2) Select the route.

NOTE

- If there are several USB storage devices are connected to the Device, you can select from the **Device Name** list.

- Click Refresh to total space, free space and the file list in the selected USB storage device.
 - In the case of insufficient capacity, click  to delete the needless files.
 - Click **New Folder** to create a new folder in the USB storage device.
- 3) Click **Apply** to save the route selection settings.
The **Test** interface is displayed again.

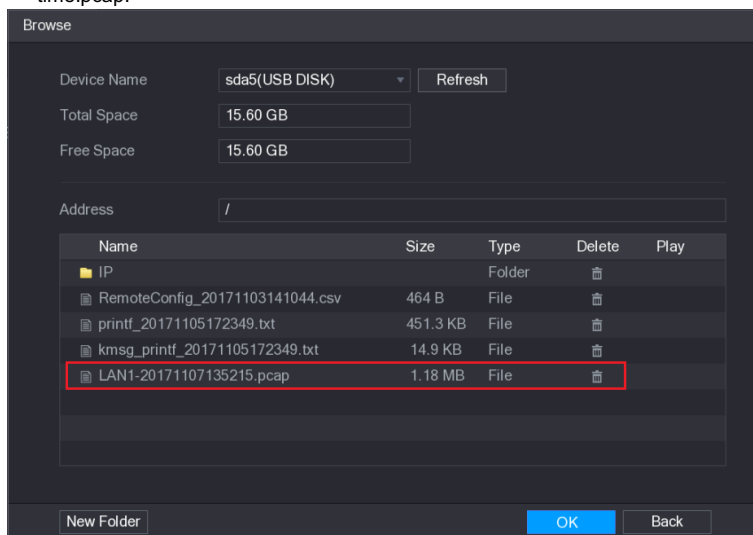
Step 5 Click  to start packet capturing and backing up.

 **NOTE**

- Only the data packet of one LAN can be captured at one time.
- After capturing starts, you can exit the **Test** interface to perform other operations such as web login and monitoring.

Step 6 Click  to stop capturing.

The backup data is saved in the selected route under the naming style "LAN name-time.pcap."



Configuring Account Settings

You can add, modify and delete user accounts, groups, and ONVIF users, and set security questions for admin account.

 **NOTE**

- The user name supports 31 characters and group name supports 15 characters. The user name can be consisted of letter, number, "_", "@", ".".

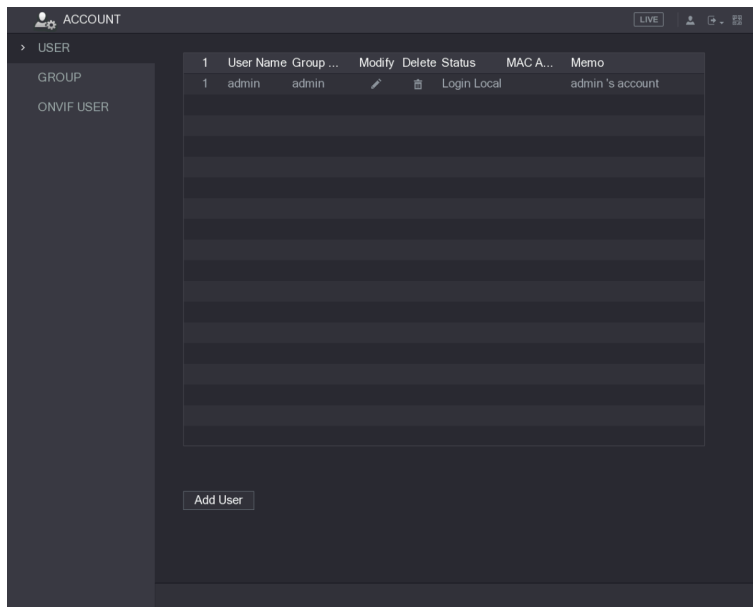
- You can set maximum 64 users and 20 groups. The group name by "User" and "Admin" cannot be deleted. You can set other groups and define the relevant permissions. However, the admin account cannot be set randomly.
- You can manage the account by user and group and the name cannot be repeated. Every user must belong to a group, and one user only belongs to one group.

Configuring User Account

Adding a User Account

Step 1 Select **Main Menu > ACCOUNT > USER**.

The **USER** interface is displayed.



Step 2 Click **Add User**.

The **Add User** interface is displayed

Step 3 Configure the settings for the parameters of adding a user account.

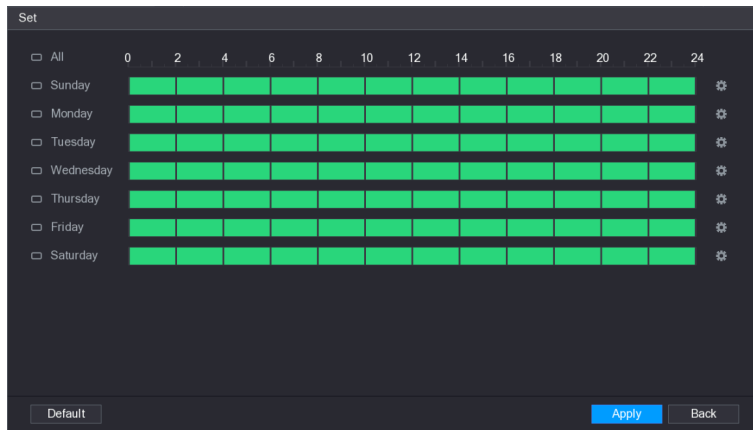
Parameter	Description
User Name	Enter a user name and password for the account.
Password	
Confirm Password	
Memo	Optional. Enter a description of the account.
User MAC	Enter user MAC address
Group	Select a group for the account. NOTE The user rights must be within the group permission.
Period	Click Set to display Set interface. Define a period during which the new account can login the device. The new account cannot login the device during the time beyond the set period.
Authority	In the Authority area, select the check boxes in the System tab, Playback tab, and Monitor tab. NOTE To manage the user account easily, when defining the user account authority, it is recommended not to give the authority to the common user account higher than the advanced user account.

Step 4 Click **OK** to complete the settings.

Setting Permitted Period

Step 1 Next to **Period**, click **Setting**.

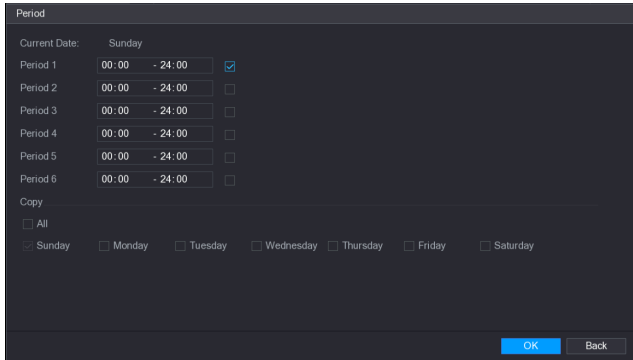
The **Setting** interface is displayed.



Step 2 Define the permitted period. By default, it is active all the time.

- Define the period by drawing.
 - ◇ Define for a specified day of a week: On the timeline, click the half-hour blocks to select the active period.
 - ◇ Define for several days of a week: Click before each day, the icon switches to . On the timeline of any selected day, click the half-hour blocks to select the active periods, all the days with will take the same settings.
 - ◇ Define for all days of a week: Click **All**, all the switches to . On the timeline of any day, click the half-hour blocks to select the active periods, all the days will take the same settings.
- Define the period by editing. Take Sunday as an example.
 - 1) Click .

The **Period** interface is displayed.



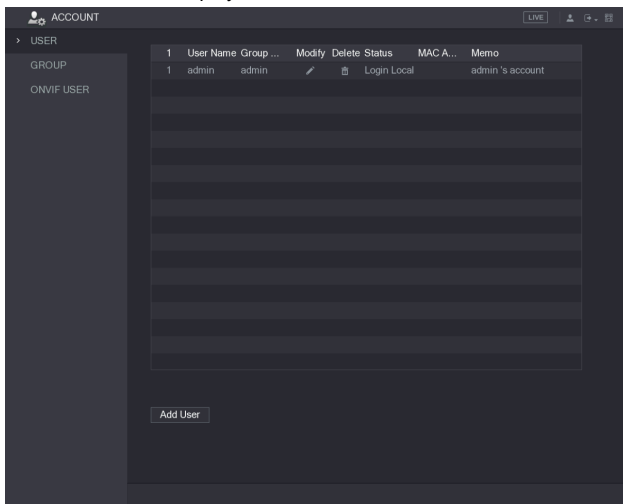
- 2) Enter the time frame for the period and select the check box to enable the settings.
 - ◇ There are six periods for you to set for each day.
 - ◇ Under **Copy**, select **All** to apply the settings to all the days of a week, or select specific day(s) that you want to apply the settings to.
- 3) Click **OK** to save the settings.


Step 3 Click **OK**.

Modify a User Account

Step 1 Select **Main Menu > ACCOUNT > USER**.

The **USER** interface is displayed.



Step 2 Click  for the user account that you want to modify.


The **Modify User** interface is displayed.

Step 3 Change the settings for password, user name, user group, user MAC, memo, period, and authority.

NOTE

The new password can be set from 8 digits through 32 digits and contains at least two types from number, letter and special characters (excluding "", "", ";", ":" and "&").

For the admin account, you can enter or modify email address, enable/disable the unlock pattern, modify the security questions.

- In the **Email Address** box, enter the email address, and the click **Save** to save the setting.
- To use the unlock pattern, enable **Unlock Pattern**, click , draw a pattern in the **Unlock Pattern** interface, and then click **Save** to save the setting.
- Configuring security questions.

1) Click **Security Questions**.

The **Security Questions** interface is displayed.

- 2) In the **Question** list, select questions and enter the answers in the Answer box.
- 3) Click **Setting** to save the settings.

You can use the security questions and answers to reset the password for admin account.

 **NOTE**

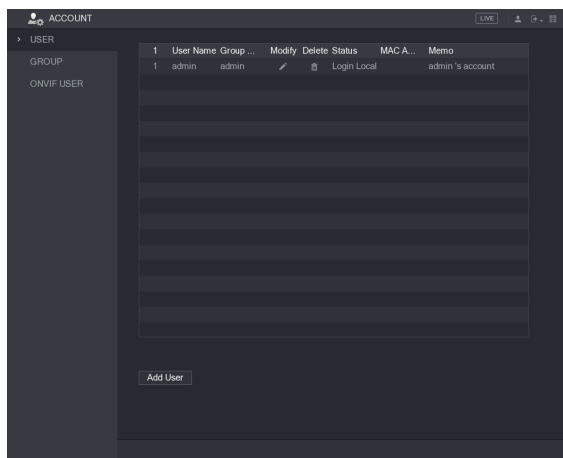
To reset the security questions, on the **Security Questions**, enter the correct answers for each question, and then click **Delete**.


Step 4 Click **OK** to complete the settings.

Deleting a User Account

Step 1 Select **Main Menu > ACCOUNT > USER**.

The **USER** interface is displayed.



Step 2 Click  for the user account that you want to delete.

A **Message** is displayed.

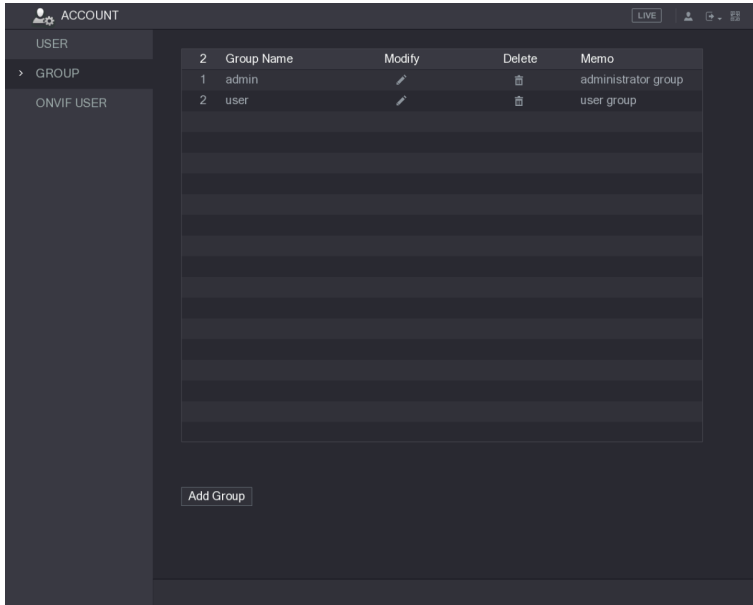
Step 3 Click **OK** to delete a user account.

Configuring Group Account

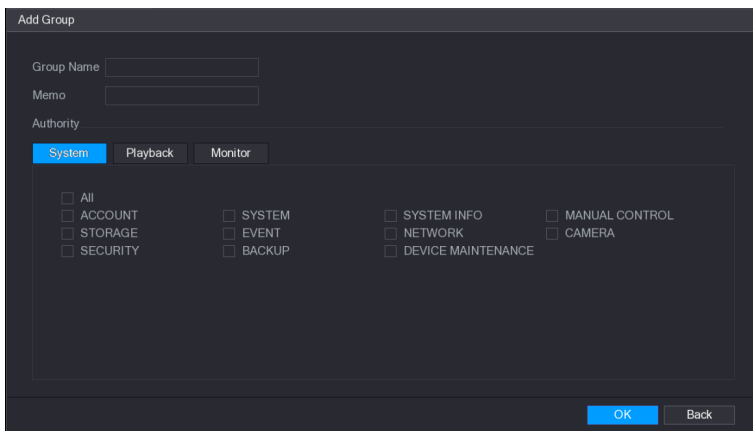
Adding a Group

Step 1 Select **Main Menu > ACCOUNT > GROUP**.

The **GROUP** interface is displayed.



Step 2 Click **Add Group**.
The **Add Group** interface is displayed.



Step 3 Configure the settings for the parameters of adding a group.

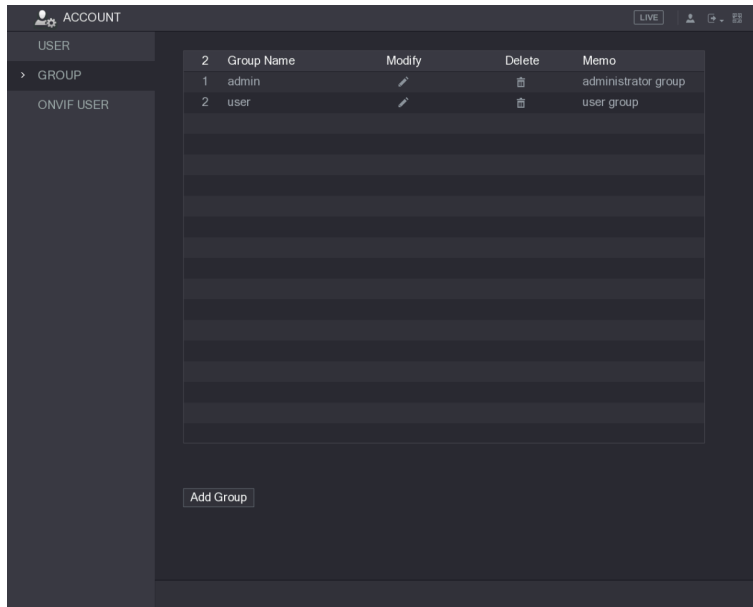
Parameter	Description
Group Name	Enter a name for the group.
Memo	Optional. Enter a description of the account.
Authority	In the Authority area, select the check boxes in the System tab, Playback tab, and Monitor tab.


Step 4 Click **OK** to complete the settings.

Modifying a Group

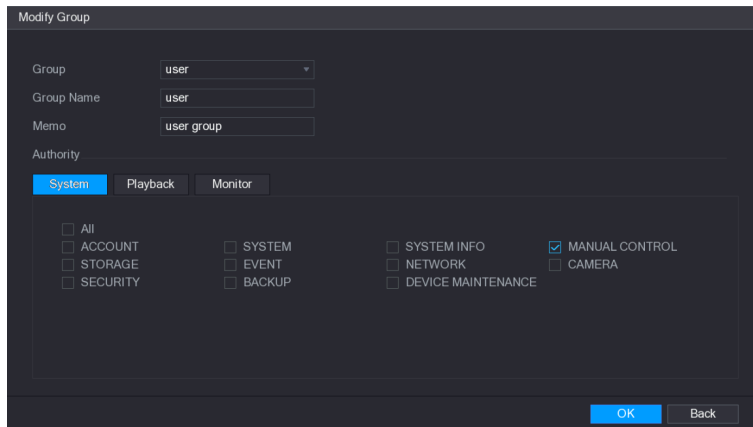
Step 1 Select **Main Menu > ACCOUNT > GROUP**.

The **GROUP** interface is displayed.



Step 2 Click  for the group account that you want to modify.

Step 3 The **Modify Group** interface is displayed.



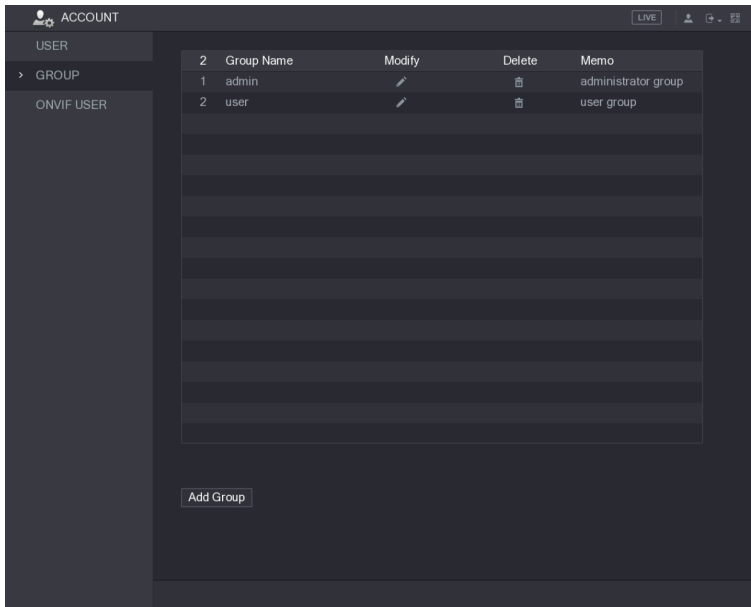
Step 4 Change the settings for group name, memo, and authority.


Step 5 Click **OK** to complete the settings.

Deleting a Group

Step 1 Select **Main Menu > ACCOUNT > GROUP**.

The **GROUP** interface is displayed.



Step 2 Click  for the user account that you want to delete.

A **Message** is displayed.

Step 3 Click **OK** to delete a group.

Configuring Onvif Users

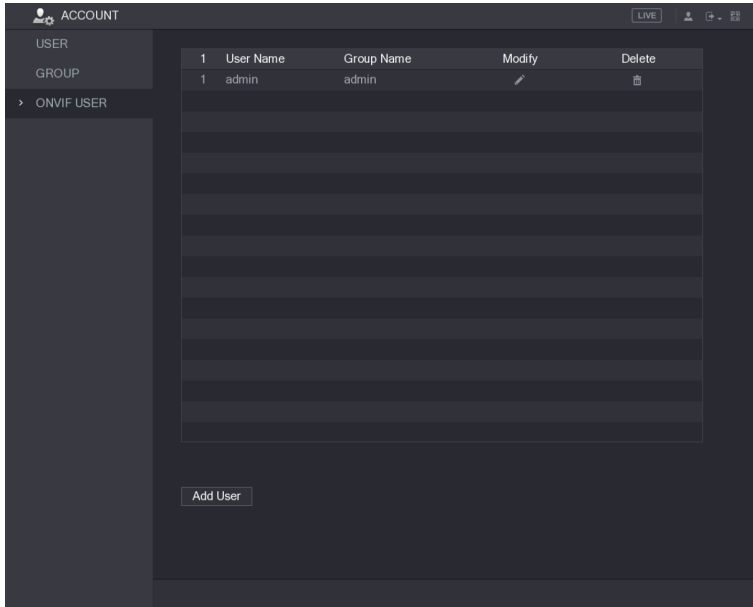
The device manufactured by other company can connect to the Device through Onvif protocol by an authorized Onvif account.

 **NOTE**

The admin account is created for Onvif users right after the Device has been initialized

Step 1 Select **Main Menu > ACCOUNT > ONVIF USER**.

The **ONVIF USER** interface is displayed.



Step 2 Click **Add User**.

The **Add User** interface is displayed.

Step 3 Enter user name, password, and select the group that you want this account to belong to.

Step 4 Click **OK** to save the settings.

NOTE

Click to modify the account; Click to delete the account.

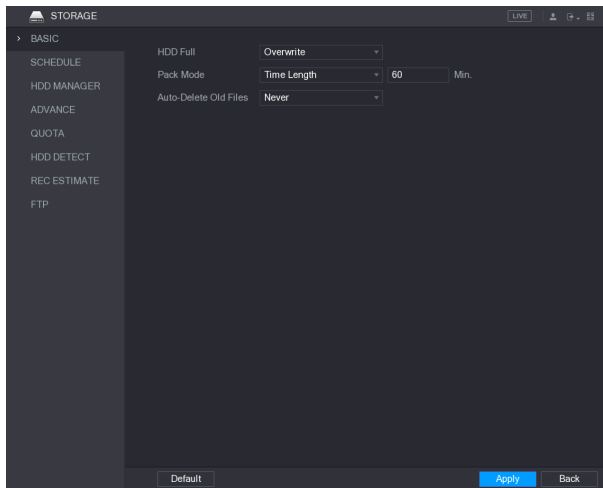
Storage Management

Storage management function manages the stored resources such as recorded video files and storage space. The function aims at providing easier operation and improving the storage efficiency.

Configuring Basic Settings

Step 1 Select **Main Menu > STORAGE > BASIC**.

The **BASIC** interface is displayed.



Step 2 Configure the settings for the basic settings parameters.

Parameter	Description
HDD Full	Configure the settings for the situation all the read/write discs are full, and there is no more free disc. <ul style="list-style-type: none">● Select Stop Record to stop recording● Select Overwrite to overwrite the recorded video files always from the earliest time.
Pack Mode	Configure the time length and file length for each recorded video.
Auto-Delete Old Files	Configure whether to delete the old files and if yes, configure the N days.

Step 3 Click **Apply** to complete the settings.

Configuring the Recording and Snapshot Schedule

The system starts recording and taking snapshot according to the configured schedule.

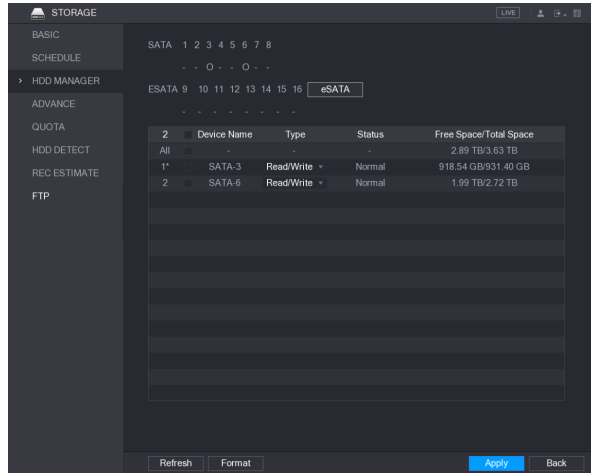
Configuring HDD Manager

You can view the HDD information, format HDD, and configure the HDD type through HDD manager.

Step 1 Select **Main Menu > STORAGE > HDD MANAGER**.

The **HDD MANAGER** interface is displayed.

In the table, you can view the information of current HDD, such as device name, HDD type, status, total space and free space, and serial number of the HDD port.



Step 2 Configuring the settings for the HDD manager.

- HDD type setting: In the **Type** list, select **Read/Write**, **Read-Only** or **Redundant**, and then click **Apply** to save the settings.
- HDD format: Select the HDD that you want to format, click **Format**, in the pop-up message, click **OK** to start formatting, and then following the onscreen message to complete formatting.

Configuring HDD Group

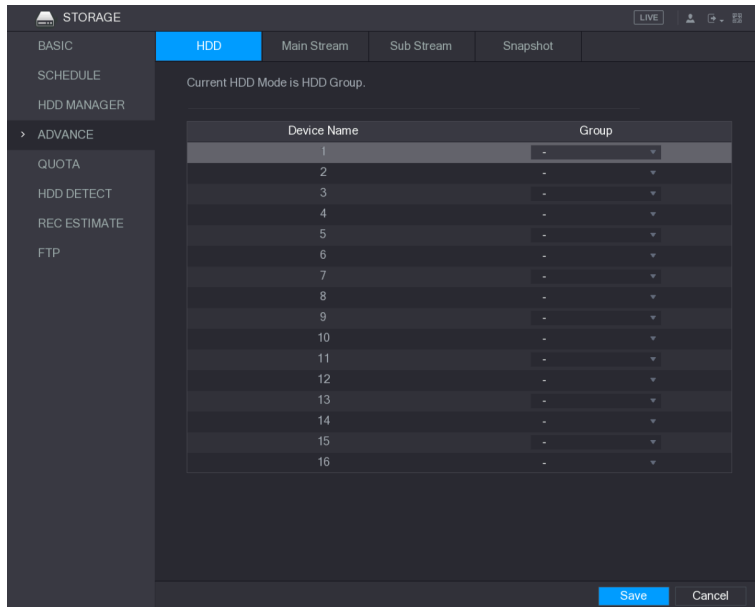
You can configure the HDD group to save the specified main stream, sub stream and snapshots to the designated HDD group.



- If "Current HDD Mode is Quota Mode" is shown on the interface, you need to switch to HDD mode.
- You can enable either HDD Mode or Quota Mode at one time. The system reboots to activate the settings.

Step 1 Select **Main Menu > STORAGE > ADVANCE**.

The **ADVANCE** interface is displayed.



Step 2 Select the group for each HDD group, and then click **Save** to save the settings.

Step 3 After configuring HDD group, under the **Main Stream** tab, **Sub Stream** tab and **Snapshot** tab, configure settings to save the main stream, sub stream and snapshot to different HDD group as selected by you.

STORAGE LIVE ⌵ ⌵

BASIC HDD **Main Stream** Sub Stream Snapshot

SCHEDULE

HDD MANAGER

> ADVANCE

QUOTA

HDD DETECT

REC ESTIMATE

FTP

Current HDD Mode is HDD Group.

Set All Channels 1 All

Channel	Group	Channel	Group	Channel	Group	Channel	Group
1	1	2	1	3	1	4	1
5	1	6	1	7	1	8	1
9	1	10	1	11	1	12	1
13	1	14	1	15	1	16	1

Apply Cancel

STORAGE LIVE ⌵ ⌵

BASIC HDD Main Stream **Sub Stream** Snapshot

SCHEDULE

HDD MANAGER

> ADVANCE

QUOTA

HDD DETECT

REC ESTIMATE

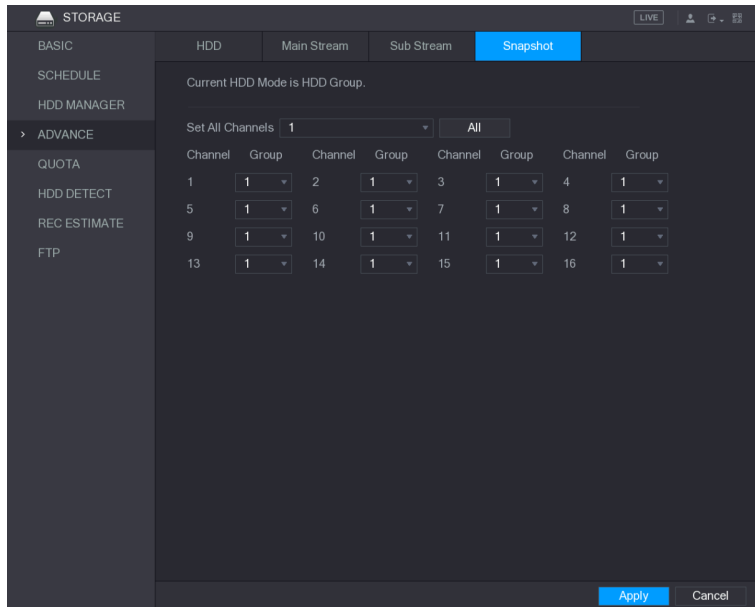
FTP

Current HDD Mode is HDD Group.

Set All Channels 1 All

Channel	Group	Channel	Group	Channel	Group	Channel	Group
1	1	2	1	3	1	4	1
5	1	6	1	7	1	8	1
9	1	10	1	11	1	12	1
13	1	14	1	15	1	16	1

Apply Cancel



Step 4 Click **Apply** to complete the settings.

Configuring HDD Detecting Settings



NOTE

Not all models support this function.

HDD detecting function detects the current status of HDD to let you know the HDD performance and replace the defective HDD.

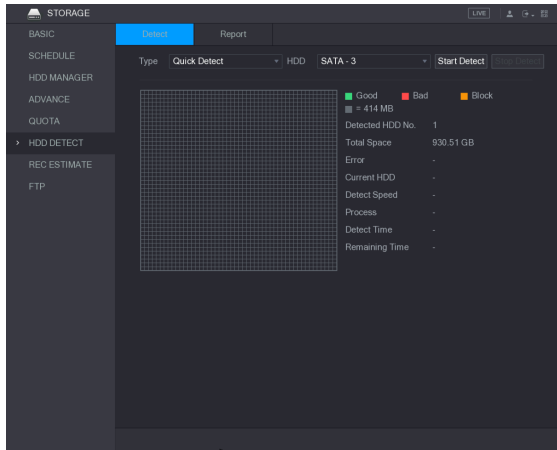
Detecting HDD

You can detect HDD by quick detect and global detect.

- Quick detect: Detect the files saved in HDD. The detected bad track can be repaired by formatting. If there are no files in HDD, the system cannot detect the bad track.
- Global detect: Detect the whole HDD through Windows, which takes time and might affect the HDD that is recording the video.

Step 1 Select **Main Menu > STORAGE > HDD DETECT > Detect**.

The **Detect** interface is displayed.

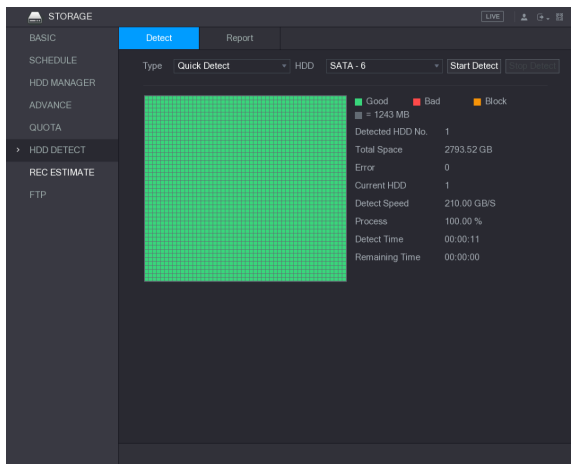


Step 2 In the **Type** list, select **Quick Detect** or **Global Detect**; and in the **HDD** list, select the HDD that you want to detect.

Step 3 Click **Start Detect**.

The system starts detecting the HDD.

During detecting, click **Pause** to pause detecting, click **Continue** to restart detecting, and click **Stop Detect** to stop detecting.

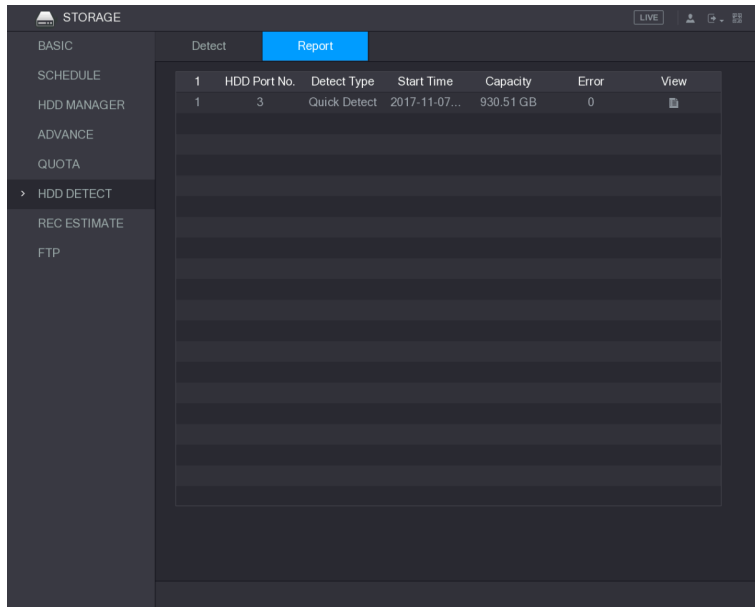



View Detecting Results

After the detecting is completed, you can view the detecting reports to find out the problem and replace the defective HDD to avoid data loss.

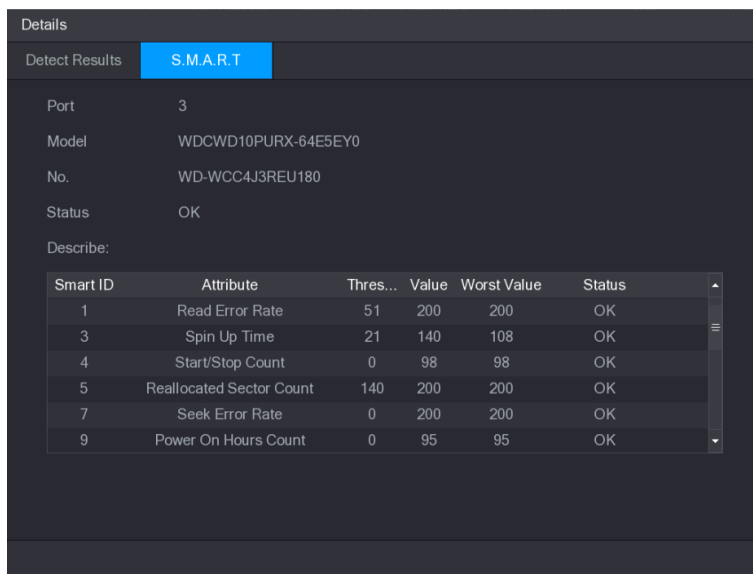
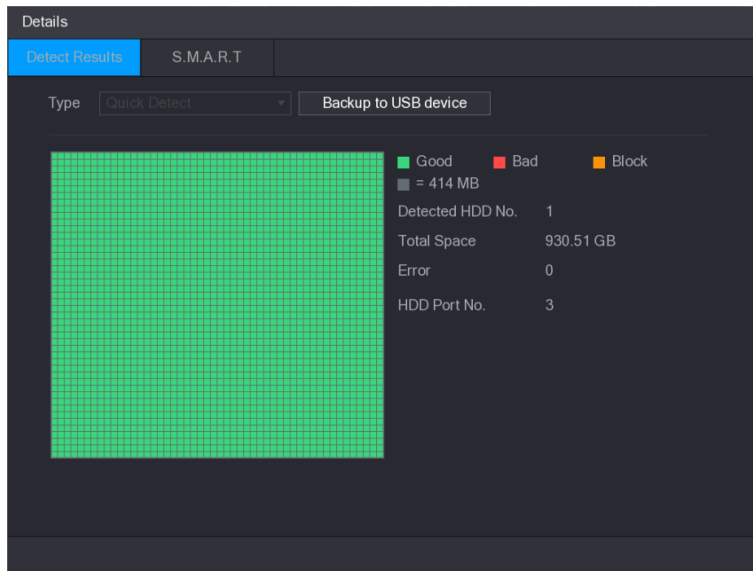
Step 1 Select **Main Menu > STORAGE > HDD DETECT > Report**.

The **Report** interface is displayed.



Step 2 Click .

The **Details** interface is displayed. You can view detecting results and S.M.A.R.T reports.

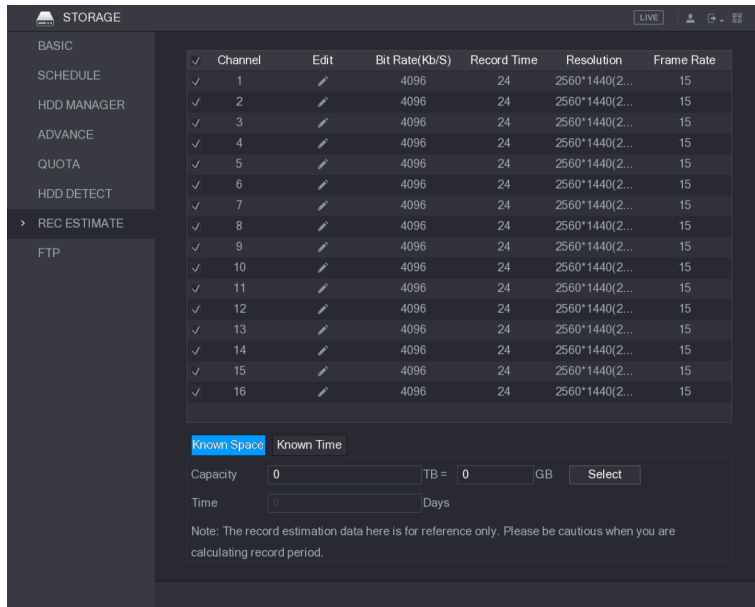



Configuring Record Estimate

Record estimate function can calculate how long you can record video according to the HDD capacity, and calculate the required HDD capacity according to the record period.

Step 1 Select **Main Menu > STORAGE > REC ESTIMATE**.

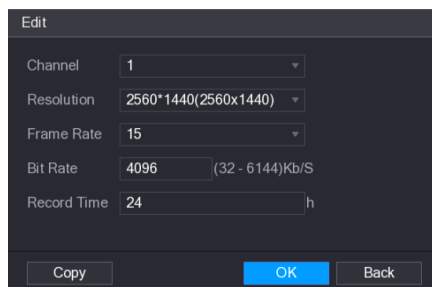
The **REC ESTIMATE** interface is displayed.



Step 2 Click .

The **Edit** dialog box is displayed.

You can configure the resolution, frame rate, bit rate and record time for the selected channel.



Step 3 Click **OK** to save the settings.

Then the system will calculate the time period that can be used for storage according to the channels settings and HDD capacity.

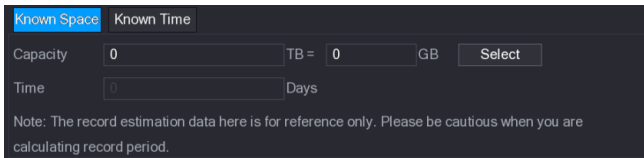
 **NOTE**

Click **Copy** to copy the settings to other channels.

Calculating Recording Time

Step 1 On the **REC ESTIMATE** interface, click the **Known Space** tab.

The **Known Space** interface is displayed.

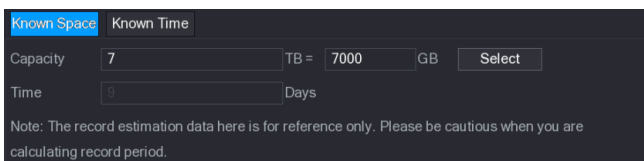


Step 2 Click **Select**.

The **Select HDD(s)** interface is displayed.

Step 3 Select the check box of the HDD that you want to calculate.

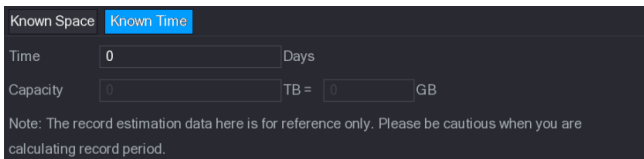
In the **Known Space** tab, in the **Time** box, the recording time is displayed.



Calculating HDD Capacity for Storage

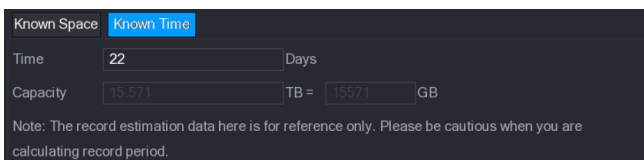
Step 1 On the **REC ESTIMATE** interface, click the **Known Time** tab.

The **Known Time** interface is displayed.



Step 2 In the **Time** box, enter the time period that you want to record.

In the **Capacity** box, the required HDD capacity is displayed.



Configuring FTP Storage Settings

You can store and view the recorded videos and snapshots on the FTP server.

Preparation for Configuration

Purchase or download a FTP server and install it on your PC.



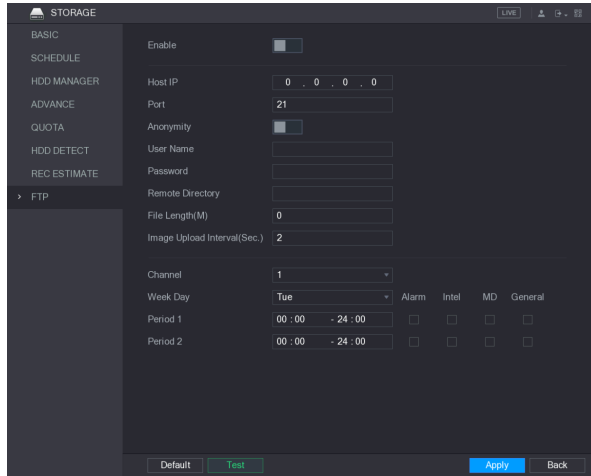
NOTE

For the created FTP user, you need to set the write permission; otherwise the upload of recorded videos and snapshots will be failed.

Configuration Steps

Step 1 Select **Main Menu > STORAGE > FTP**.

The **FTP** interface is displayed.



Step 2 Configure the settings for the FTP settings parameters.

Parameter	Description
Enable	Enable the FTP upload function.
Host IP	IP address of the PC that is installed with FTP server.
Port	The default is 21.
Anonymity	Enter the user name and password to login the FTP server. Enable the anonymity function, and then you can login anonymously without entering the user name and password.
User Name	
Password	
Remote Directory	<p>Create folder on FTP server.</p> <ul style="list-style-type: none"> If you do not enter the name of remote directory, system automatically creates the folders according to the IP and time. If you enter the name of remote directory, the system creates the folder with the entered name under the FTP root directory first, and then automatically creates the folders according to the IP and time.
File Length(M)	<p>Enter the length of the uploaded recorded video.</p> <ul style="list-style-type: none"> If the entered length is less than the recorded video length, only a section of the recorded video can be uploaded. If the entered length is more than the recorded video length, the whole recorded video can be uploaded. If the entered length is 0, the whole recorded video will be uploaded.

Parameter	Description
Image Upload Interval (Sec.)	<ul style="list-style-type: none"> ● If this interval is longer than snapshot interval, the system takes the recent snapshot to upload. For example, the interval is 5 seconds, and snapshot interval is 2 seconds per snapshot, the system uploads the recent snapshot every 5 seconds. ● If this interval is shorter than snapshot interval, the system uploads the snapshot per the snapshot interval. For example, the interval is 5 seconds, and snapshot interval is 10 seconds per snapshot, the system uploads the snapshot every 10 seconds. ● To configure the snapshot interval, select Main Menu > CAMERA > ENCODE > Snapshot.
Channel	Select the channel that you want to apply the FTP settings.
Week Day	Select the week day and set the time period that you want to upload the recorded files. You can set two periods for each week day.
Period 1, Period 2	
Record type	Select the record type (Alarm, Intel, MD, and General) that you want to upload. The selected record type will be uploaded during the configured time period.

Step 3 Click **Test**.

The system pops up a message to indicate success or failure. If failed, please check the network connection or configurations.

Step 4 Click **Apply** to complete the settings.

Configuring System Settings

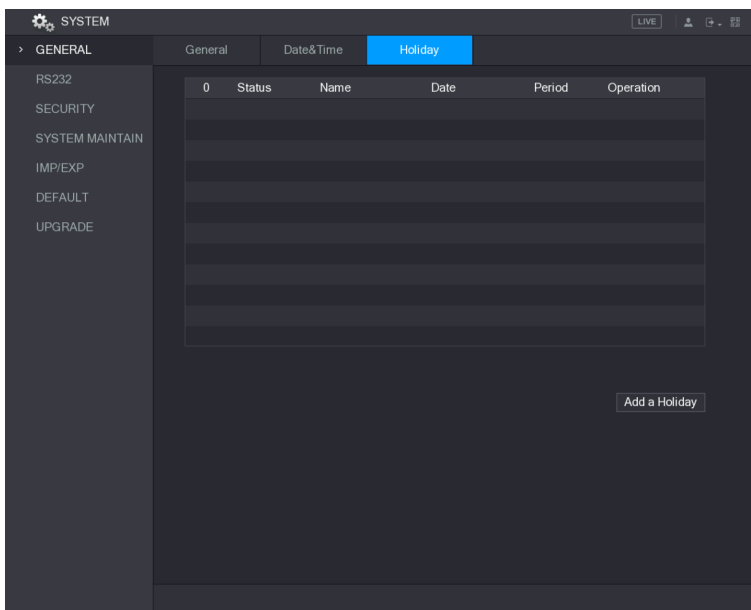
Configuring General System Settings

You can configure the device basic settings, time settings, and holiday settings.

To configure the holiday settings, do the following:

Step 1 Select **Main Menu > GENERAL > Holiday**.

The **Holiday** interface is displayed.



Step 2 Click **Add a Holiday**.

The **Add a Holiday** interface is displayed.

The 'Add a Holiday' dialog box contains the following fields and options:

- Holiday Name:** A text input field.
- Repeat Mode:** Radio buttons for 'Once' and 'Always' (selected).
- Holiday Range:** Radio buttons for 'Date' (selected) and 'Week'.
- Start Time:** A date-time input field showing '2017 - 11 - 09'.
- End Time:** A date-time input field showing '2017 - 11 - 09'.
- Add More:** A checkbox.
- Buttons:** 'Add' and 'Cancel' buttons at the bottom right.

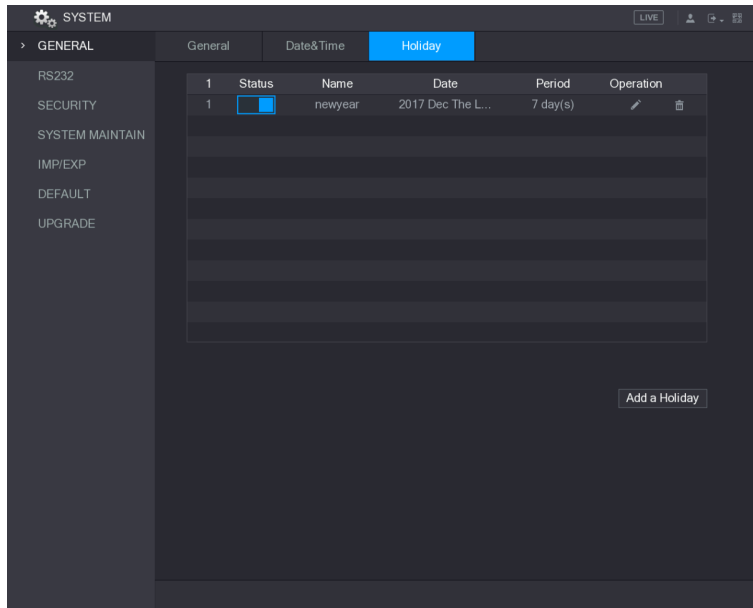
Step 3 Configure the holiday name, repeat mode, time range according to your actual situation.

Step 4 Click **Add**.

The added holiday information is displayed.

 **NOTE**

Enable the **Add More** function, so you can continue adding holiday information.



Configuring Security Settings

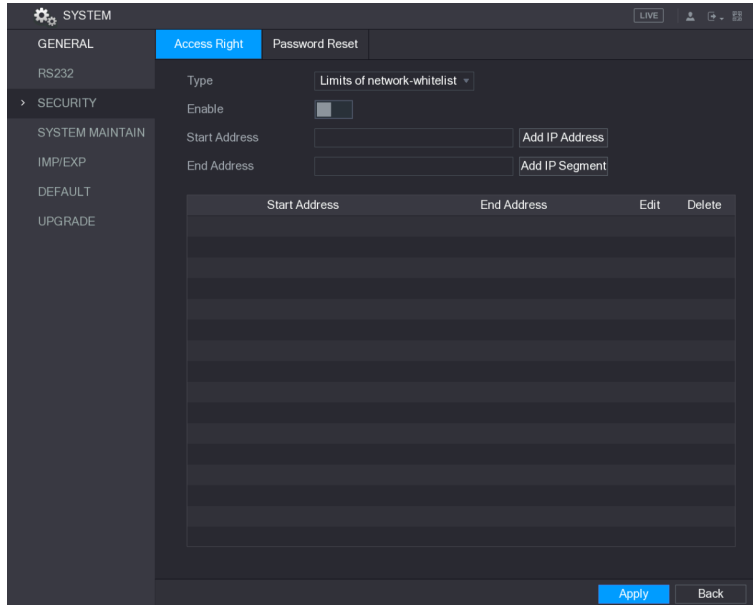
To ensure the network security and protect data, you can configure the access permission to the Device from host IP (host IP means the PC or server that has an IP).

- White list includes the host IP that are permitted to access the Device.
- Back list includes the host IP that are not permitted to access the Device.
- Update time white list includes the host IP that are permitted to sync the Device time.


Configuring Access Right

Step 1 Select **Main Menu > SYSTEM > SECURITY > Access Right**.

The **Access Right** interface is displayed.



Step 2 Configure the settings for the security parameters.

Parameter	Description
Type	In the Type list, you can select Limits of network-whitelist, Limits of network-blacklist, or Updata time-whitelist.
Enable	Enable the security settings.
Start Address	Enter a single IP address or a start IP address of a network segment.
Add IP Address	Click Add IP Address to add a single IP address.
End Address	Enter the end IP address of a network segment.
Add IP Segment	Click Add IP Segment to add the IP addresses from the start IP through the end IP.  NOTE The system supports up to 64 IP addresses.

Step 3 Click **Apply** to complete the settings.

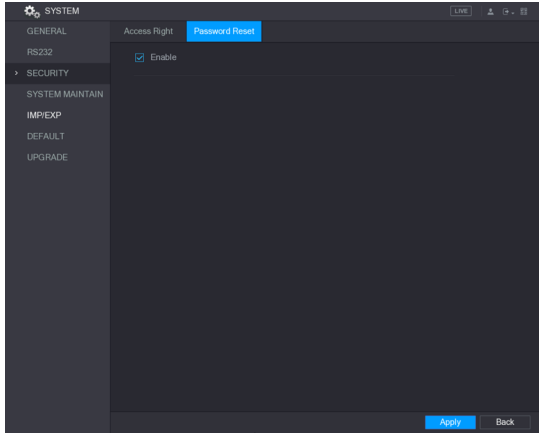
Enabling Password Reset

Select **Main Menu > SYSTEM > SECURITY > Password Reset**, the **Password Reset** interface is displayed. The **Enable** check box is selected by default.



CAUTION

If you clear the **Enable** check box, you can only use the security questions to reset the password. Make sure you have set the security questions before clearing the check box.

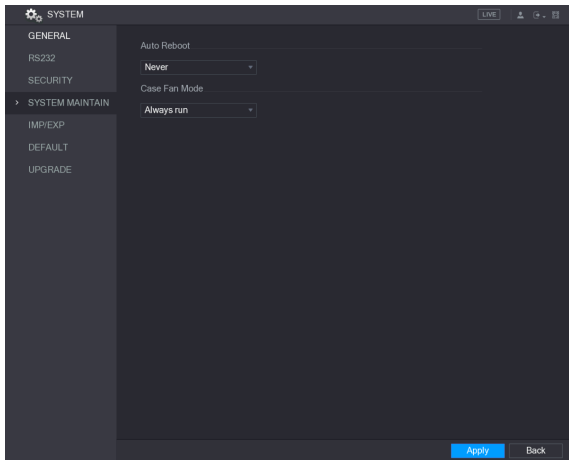


Configuring System Maintenance Settings

When the Device has been running for a long time, you can configure the auto reboot when the Device is not working. You can also configure the case fan mode to reduce noise and extend the service life.


Step 1 Select **Main Menu > SYSTEM > SYSTEM MAINTAIN**.

The **SYSTEM MAINTAIN** interface is displayed.



Step 2 Configure the settings for the system maintenance parameters.

Parameter	Description
Auto Reboot	In the Auto Reboot list, select the reboot time.

Parameter	Description
Case Fan Mode	<p>In the Case Fan Mode list, you can select Always run or Auto. If you select Auto, the case fan will stop or start according to the external conditions such as the Device temperature.</p> <p> NOTE</p> <p>Not all models support this function, and it is only supported on the local configuration interface.</p>

Step 3 Click **Apply** to complete the settings.

Exporting and Importing System Settings

You can export or import the Device system settings if there are several Devices that require the same setup.

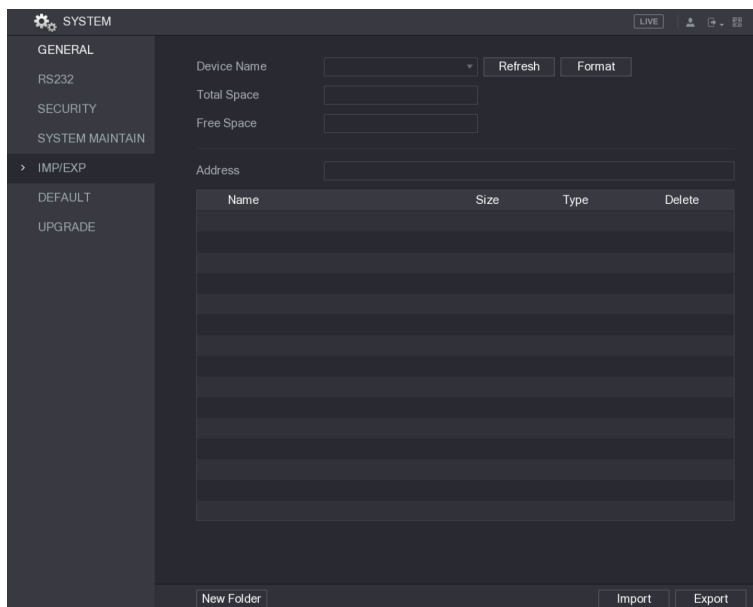
 **NOTE**

- The **IMP/EXP** interface cannot be opened if the backup operation is ongoing on the other interfaces.
- When you open the **IMP/EXP** interface, the system refreshes the devices and sets the current directory as the first root directory.
- Click **Format** to format the USB storage device.

Exporting System Settings

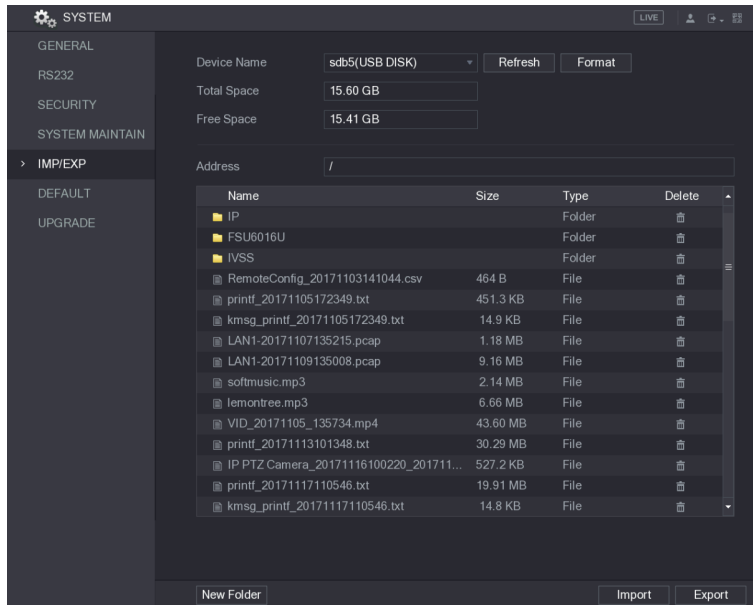
Step 1 Select **Main Menu > SYSTEM > IMP/EXP**.

The **IMP/EXP** interface is displayed.



Step 2 Insert a USB storage device into one of the USB ports on the Device.

- Step 3** Click **Refresh** to refresh the interface.
The connected USB storage device is displayed.



- Step 4** Click **Export**.
There is a folder under the name style of "Config_[YYYYMMDDhhmmss]". Double-click this folder to view the backup files.

Importing System Settings

- Step 1** Insert a USB storage device containing the exported configuration files from another Device) into one of the USB ports on the Device.
- Step 2** Select **Main Menu > SYSTEM > IMP/EXP**.
The **IMP/EXP** interface is displayed.
- Step 3** Click **Refresh** to refresh the interface.
The connected USB storage device is displayed.
- Step 4** Click on the configuration folder (under the name style of "Config_[YYYYMMDDhhmmss]") that you want to import.
- Step 5** Click **Import**.
The Device will reboot after the imported is succeeded.

Restoring Default Settings

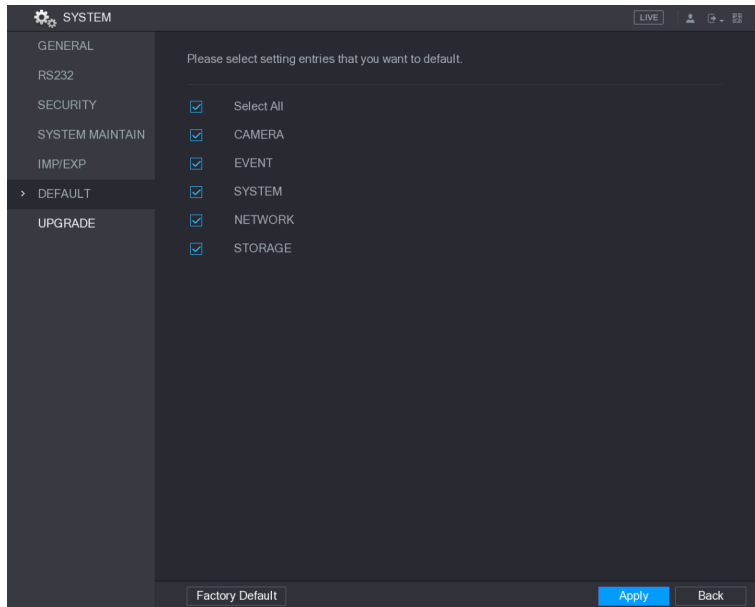


NOTE

Only Admin account supports this function.

You can select the settings that you want to restore to the factory default.

- Step 1** Select **Main Menu > SYSTEM > DEFAULT**.
The **DEFAULT** interface is displayed.



Step 2 Restore the settings.

- Select the settings that you want to restore, and then click **Apply**. The system starts restoring the selected settings.
- Click **Factory Default**, and then click **OK**. The system starts restoring the whole settings.

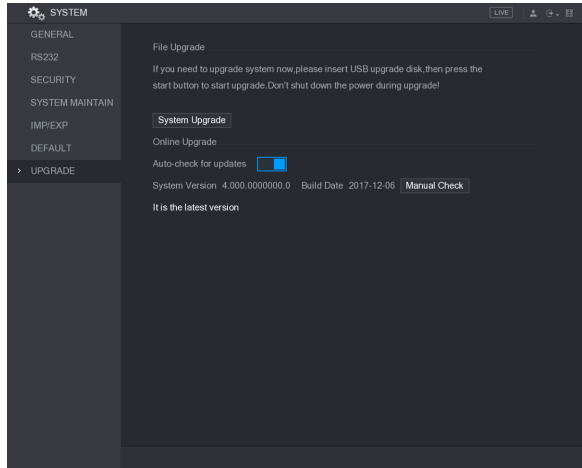
Upgrading the Device

Upgrading File

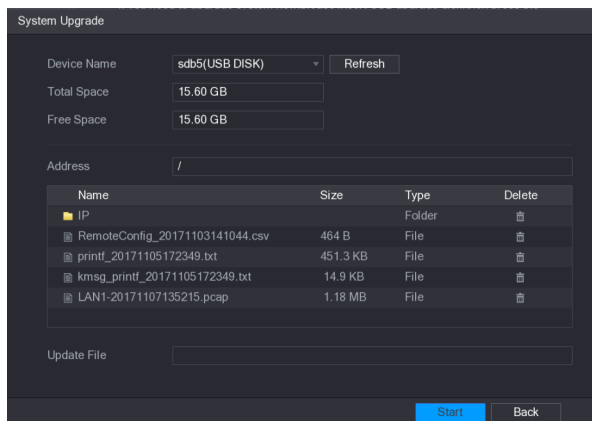
Step 1 Insert a USB storage device containing the upgrade files into the USB port of the Device.

Step 2 Select **Main Menu > SYSTEM > UPGRADE**.

The **UPGRADE** interface is displayed.



Step 3 Click **System Upgrade**.
The **System Upgrade** interface is displayed.



Step 4 Click the file that you want to upgrade.
The selected file is displayed in the **Update File** box.

Step 5 Click **Start**.

Performing Online Upgrade

When the Device is connected to Internet, you can use online upgrade function to upgrade the system.

Before using this function, you need to check if there is any new version by auto check or manual check.

- Auto check: The Device checks if there is any new version available at intervals.
- Manual check: Perform real-time check if there is any new version available.

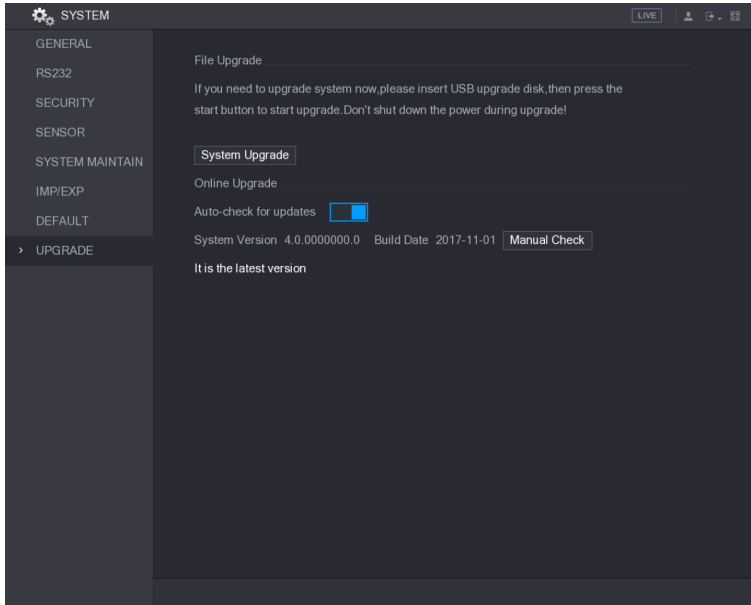


CAUTION

Ensure the correct power supply and network connection during upgrading; otherwise the upgrading might be failed.

Step 1 Select **Main Menu > SYSTEM > UPGRADE**.

The **UPGRADE** interface is displayed.

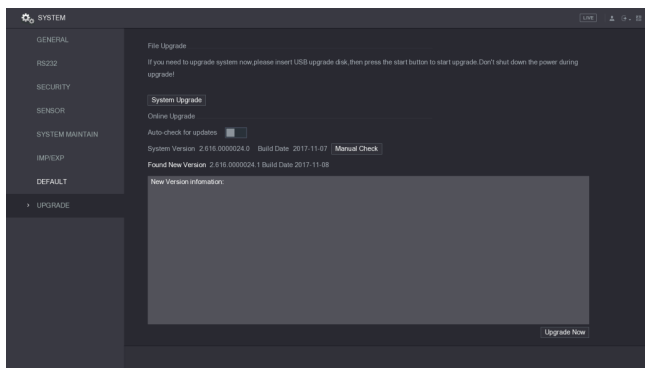


Step 2 Check if there is any new version available.

- Auto check: Enable Auto-check for updates.
- Manual check: Click Manual Check.

The system starts checking the new versions. After checking is completed, the check result is displayed.

- If the "It is the latest version" text is displayed, you do not need to upgrade.
- If the text indicating there is a new version, please go the step 3.



Step 3 Click **Upgrade now**.

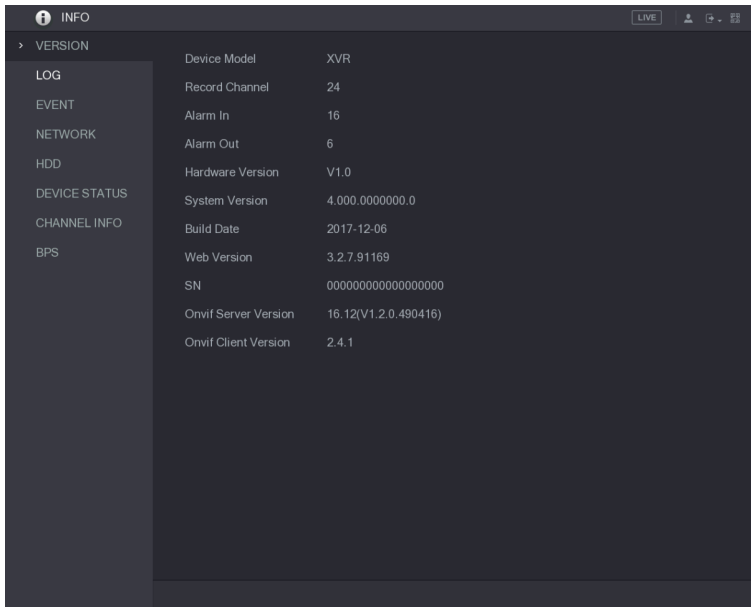
Viewing Information

You can view the information such as log information, HDD information, and version details

Viewing Version Details

You can view the version details such as device model, system version, and build date.

Select **Main Menu > INFO > VERSION**, the **VERSION** interface is displayed.



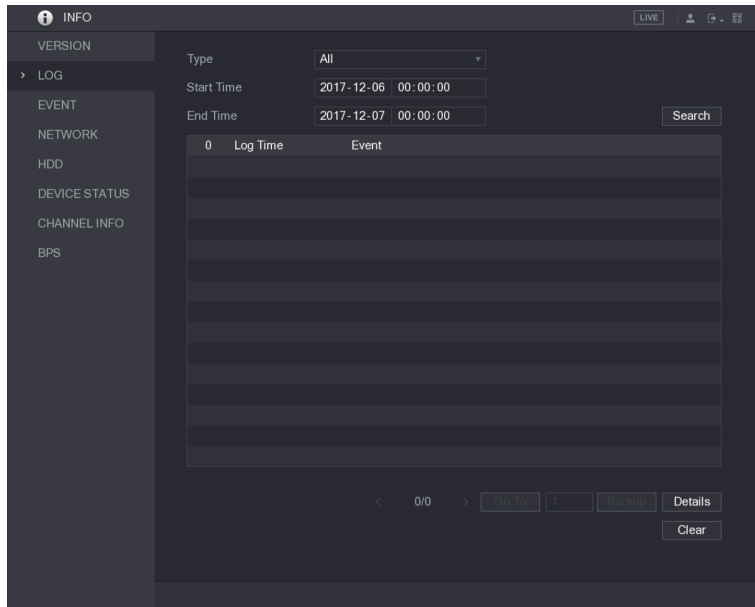
Viewing Log Information

You can view and search the log information.

NOTE

- If there is no HDD installed, the system can save up to 10,000 logs.
- If there is HDD installed and has been formatted, the system can save up to 500,000 logs.
- If there is HDD installed, the logs about system operations are saved in the memory of the Device and other types of logs are saved into the HDD. If there is no HDD installed, the other types of logs are also saved in the memory of the Device.
- When formatting the HDD, the logs will not be lost. However, if you take out the HDD from the Device, the logs might be lost.

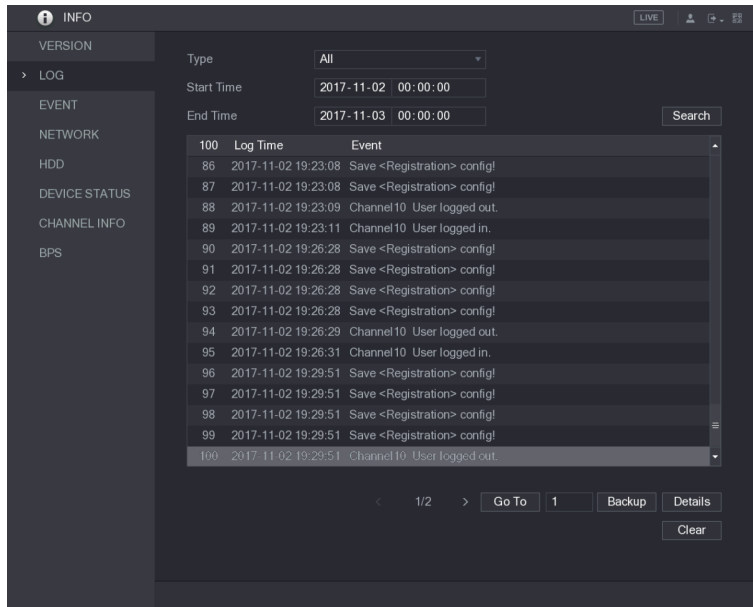
Step 1 Select **Main Menu > INFO > LOG**, the **LOG** interface is displayed.



Step 2 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.

Step 3 In the **Start Time** box and **End Time** box, enter the time period to search, and then click **Search**.

The search results are displayed.

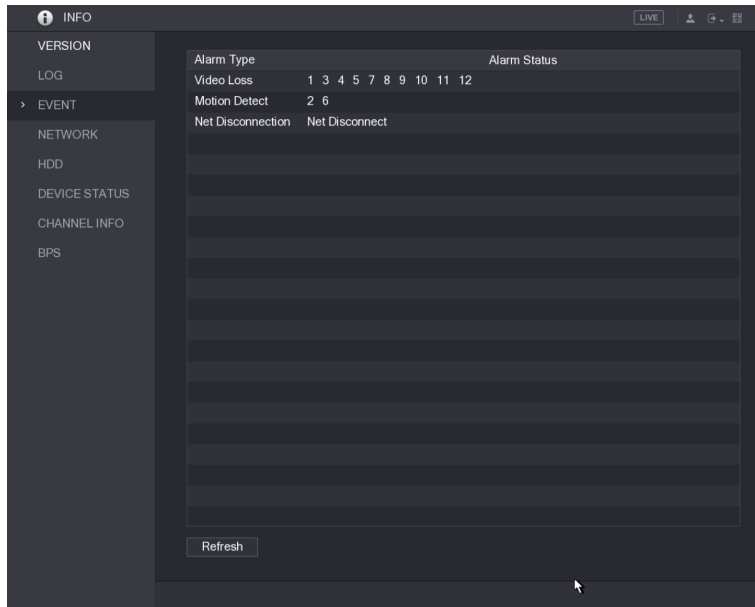


NOTE

- Click **Details** or double-click the log that you want to view, the **Detailed Information** interface is displayed. Click **Next** or **Previous** to view more log information.
- Click **Backup** to back up the logs into the USB storage device.
- Click **Clear** to remove all logs.

Viewing Event Information

You can view the event information of the Device and channel.
 Select **Main Menu > INFO > EVENT**, the **EVENT** interface is displayed.



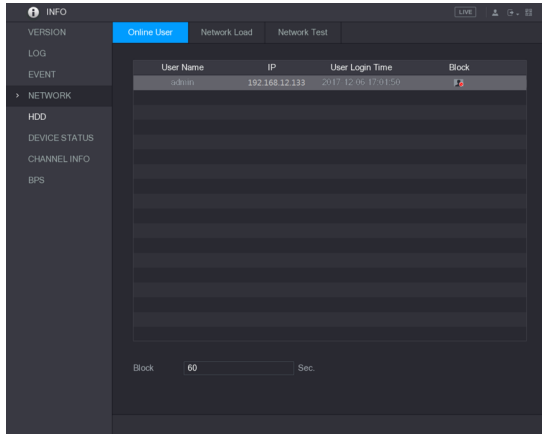
Viewing Network Information


You can view the online users, network data transmission details, and test network.

Viewing Online Users

You can view the online user information and block any user for a period of time.

Select **Main Menu > INFO > NETWORK > Online users**, the **Online users** interface is displayed.



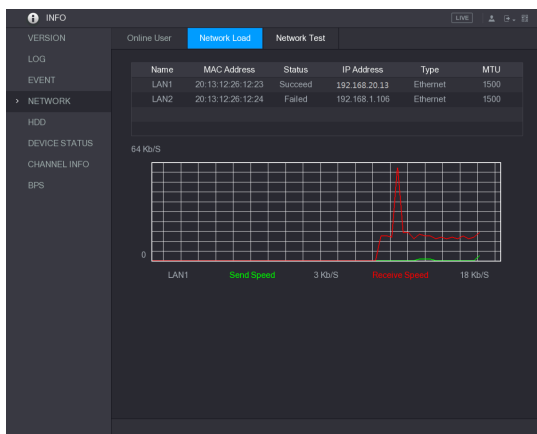
To block an online user, click  and then enter the time that you want to block this user. The maximum value you can set is 65535. The system detects every 5 seconds to check if there is any user added or deleted, and update the user list timely.

Viewing the Network Load

Network load means the data flow which measures the transmission capability. You can view the information such as data receiving speed and sending speed.

Step 1 Select **Main Menu > INFO > NETWORK > Network Load**.

The **Network Load** interface is displayed.



Step 2 Click the LAN name that you want to view, for example, LAN1.

The system displays the information of data sending speed and receiving speed.

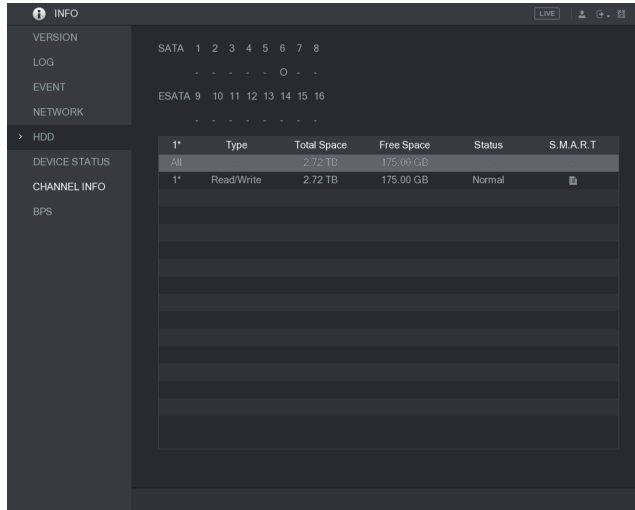
 NOTE

- The default display is LAN1 load.
- Only one LAN load can be displayed at one time.

Viewing HDD Information

You can view the HDD quantity, HDD type, total space, free space, status, and S.M.A.R.T information.

Select **Main Menu > INFO > HDD**, the **HDD** interface is displayed.

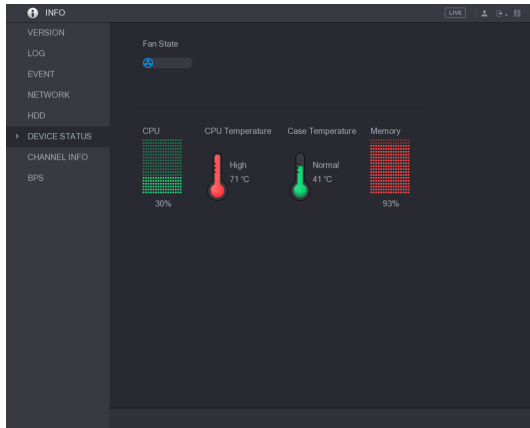


Parameter	Description
SATA	Indicates the quantity of HDD that can be installed. The total quantity is different depending on the model you purchased. <ul style="list-style-type: none"> ● ○: HDD is in normal working status. ● -: No HDD is installed.
No.	Indicates the number of the currently connected HDD. * means the current working HDD.
Type	Indicates HDD type.
Total Space	Indicates the total capacity of HDD.
Free Space	Indicates the usable capacity of HDD.
Status	Indicates the status of the HDD to show if it is working normally.
S.M.A.R.T	View the S.M.A.R.T reports from HDD detecting.

Viewing Device Status

You can view the information such as CPU temperature and memory usage to know the device status.

Select **Main Menu > INFO > DEVICE STATUS**, the **DEVICE STATUS** interface is displayed.



Viewing Channel Information

You can view the camera information connected to each channel.

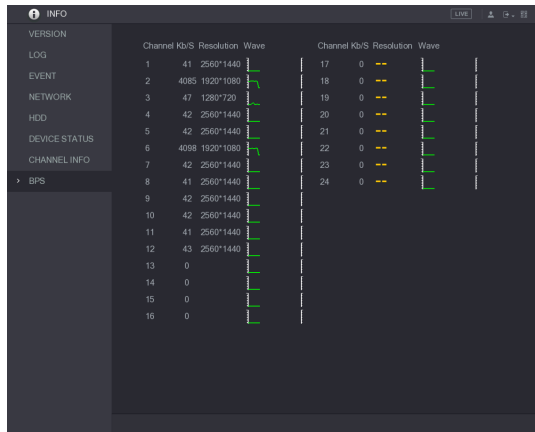
Select **Main Menu > INFO > CHANNEL INFO**, the **CHANNEL INFO** interface is displayed.

The screenshot shows the 'INFO' menu with 'CHANNEL INFO' selected. The interface displays a table with the following data:

Channel	Format
1	--
2	1080P
3	--
4	--
5	--
6	1080P
7	--
8	--
9	--
10	--
11	--
12	--

Viewing Data Stream Information


You can view the real-time data stream rate and resolution of each channel.
Select **Main Menu > INFO > BPS**, the **BPS** interface is displayed.



The screenshot shows the 'INFO' interface with the 'BPS' section selected. It displays a table of channel data with columns for Channel, Kb/S, Resolution, and Wave. The data is organized into two columns of channels, with the first column containing channels 1-16 and the second column containing channels 17-24. Each channel has a corresponding green bar representing the data stream rate and resolution.

Channel	Kb/S	Resolution	Wave
1	41	2560*1440	
2	4085	1920*1080	
3	47	1280*720	
4	42	2560*1440	
5	42	2560*1440	
6	4088	1920*1080	
7	42	2560*1440	
8	41	2560*1440	
9	42	2560*1440	
10	42	2560*1440	
11	41	2560*1440	
12	43	2560*1440	
13	0		
14	0		
15	0		
16	0		
17	0	--	
18	0	--	
19	0	--	
20	0	--	
21	0	--	
22	0	--	
23	0	--	
24	0	--	

Logout the Device

On the top right of the Main Menu interface or on any interface after you have entered the Main Menu, click .

- Select **Logout**, you will log out the device.
- Select **Reboot**, the Device will be rebooted.

Select **Shutdown**, the Device will be turned off.