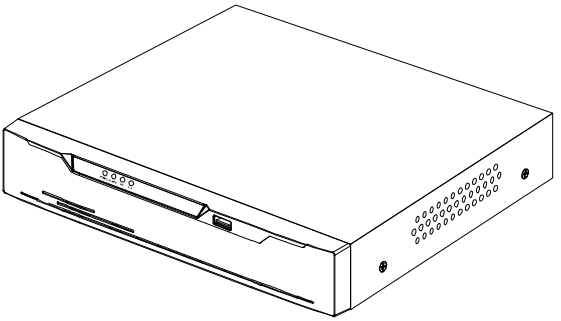
Digital Video Recorder(DVR)

User Manual



WBXHD041S
WBXHD041S1T
WBXHD082S
WBXHD082S2T
WBXHD162S
WBXHD162S4T

If you have any questions, please contact your ADI salesperson.

W BOX
TECHNOLOGIES

Precautions

Precautions

Fully understand this document before using this device, and strictly observe rules in this document when using this device. If you install this device in public places, provide the tip "You have entered the area of electronic surveillance" in an eye-catching place. Failure to correctly use electrical products may cause fire and severe injuries. To prevent accidents, carefully read the following context:

Symbols

This document may contain the following symbols whose meanings are described accordingly.

Symbol	Description
DANGER	It alerts you to fatal dangers which, if not avoided, may cause deaths or severe injuries.
WARNING	It alerts you to moderate dangers which, if not avoided, may cause minor or moderate injuries.
CAUTION	It alerts you to risks. Neglect of these risks may cause device damage, data loss, device performance deterioration, or unpredictable results.
TIP	It provides a tip that may help you resolve problems or save time.
NOTE	It provides additional information.

DANGER

To prevent electric shocks or other dangers, keep power plugs dry and clean.

WARNING

- Strictly observe installation requirements when installing the device. The manufacturer shall not be held responsible for device damage caused by users' non-conformance to these requirements.

- Strictly conform to local electrical safety standards and use power adapters that are marked with the LPS standard when installing and using this device. Otherwise, this device may be damaged.
- Use accessories delivered with this device. The voltage must meet input voltage requirements for this device.
- If this device is installed in places with unsteady voltage, ground this device to discharge high energy such as electrical surges in order to prevent the power supply from burning out.
- When this device is in use, ensure that no water or any liquid flows into the device. If water or liquid unexpectedly flows into the device, immediately power off the device and disconnect all cables (such as power cables and network cables) from this device.
- Do not focus strong light (such as lighted bulbs or sunlight) on this device. Otherwise, the service life of the image sensor may be shortened.
- If this device is installed in places where thunder and lightning frequently occur, ground the device nearby to discharge high energy such as thunder strikes in order to prevent device damage.

CAUTION

- Avoid heavy loads, intensive shakes, and soaking to prevent damages during transportation and storage. The warranty does not cover any device damage that is caused during secondary packaging and transportation after the original packaging is taken apart.
- Protect this device from fall-down and intensive strikes, keep the device away from magnetic field interference, and do not install the device in places with shaking surfaces or under shocks.
- Clean the device with a soft dry cloth. For stubborn dirt, dip the cloth into slight neutral cleanser, gently wipe the dirt with the cloth, and then dry the device.
- Do not jam the ventilation opening. Follow the installation instructions provided in this document when installing the device.
- Keep the device away from heat sources such as radiators, electric heaters, or other heat equipment.
- Keep the device away from moist, dusty, extremely hot or cold places, or places with strong electric radiation.
- If the device is installed outdoors, take insect- and moisture-proof measures to avoid circuit board corrosion that can affect monitoring.
- Remove the power plug if the device is idle for a long time.
- Before unpacking, check whether the fragile sticker is damaged. If the fragile sticker is damaged, contact customer services or sales personnel. The manufacturer shall not be held responsible for any artificial damage of the fragile sticker.

Special Announcement

All complete products sold by the manufacturer are delivered along with nameplates, operation instructions, and accessories after strict inspection. The manufacturer shall not be held responsible for counterfeit products.

This manual may contain misprints, technology information that is not accurate enough, or product function and operation description that is slightly inconsistent with the actual product. The manufacturer will update this manual according to product function enhancement or changes and regularly update the software and hardware described in this manual. Update information will be added to new versions of this manual without prior notice.

This manual is only for reference and does not ensure that the information is totally consistent with the actual product. For consistency, see the actual product.

Contents

Precautions ..... **i**

1 Specifications **1**

2 Hard Disk **3**

2.1 Precautions 3
2.2 Hard Disk Recommendation 3
2.3 Approximate Video Storage Duration 3
2.4 Hard Disk Installation 4

3 Operation Instruction **8**

3.1 Front panel 8
3.2 Rear panel 8
3.3 Startup 10
3.4 Powering off the Device 11
3.5 Logging In to the System 11
3.6 Changing the Password 12
3.7 Adding Cameras 13

4 Quick Navigation **15**

4.1 PTZ Operations 17
4.1.1 PTZ 17
4.1.2 UTC 19
4.2 Playback 20
4.3 Search 21
4.4 Picture Grid 22
4.5 Event 23
4.6 Main Menu 23

5 Camera Management **25**

5.1 Camera Management 26
5.1.1 Lock a Camera 26
5.1.2 Unlock a Camera 26
5.2 Picture Parameter 27
5.3 Encode Parameter 28

5.4 Video loss 29
5.5 Motion Detection 33
5.6 Privacy Area 35
5.7 Camera tamper 35
5.8 OSD settings 36
6 System setting 38
6.1 Basic 38
6.1.1 System 39
6.1.2 Time 39
6.1.3 Time zone 40
6.1.4 DST 41
6.2 Network 42
6.2.1 Ipv4 42
6.2.2 Port 44
6.2.3 UPNP 45
6.2.4 SMTP 46
6.2.5 DDNS 47
6.2.6 Blacklist 48
6.3 Record 50
6.4 Output 51
6.5 Alarm Manager 54
6.5.1 Surveillance 54
6.5.2 Alarm in 55
6.6 Disk 56
6.6.1 Viewing Disk Information 57
6.6.2 Clearing Disk Data 57
6.7 Privilege manager 58
6.7.1 User manager 58
6.7.2 Modify Password 60
6.8 Privacy 60
6.9 Advanced setting 61
6.10 App 62
7 Log Center 64
8 Alarm 66
8.1 Event 66
8.2 Timeline 67
8.3 Clear alarm 68

9 Web Access 69
9.1 Login 69
9.2 Live Video 70
9.3 Video Playback 70
9.4 Alarm Search 72
9.5 DVR Setting 74
9.5.1 Viewing basic information 75
9.5.2 Network management 76
9.5.2.1 IPv4 76
9.5.2.2 Port 77
9.5.2.3 DDNS 78
9.5.2.4 SMTP 79
9.5.3 Device management 80
9.6 Alarm 82
9.7 Storage 84
9.8 User 85
9.8.1 Privilege management 85
9.8.2 Modify password 88
9.8.3 Local 88
10 FAQ 90

1 Specifications

Model	WBXHD041S WBXHD041S1T	WBXHD082S WBXHD082S2T	WBXHD162S WBXHD162S4T
VIDEO			
Video Compression	H.264 High Profile		
Encode Ability	4ch*1080P@15fps	8ch*1080P@15fps	16ch*1080P@15fps
Decode Ability	4ch *1080P@15fps	8ch*1080P@15fps	16ch*1080P@15fps
Video Input	Pure Analog: 4ch*1080P/4ch*720P	Pure Analog: 8ch*1080P/8ch*720P	Pure Analog: 16ch*1080P/8ch*720P
	Mixed Input: 4ch*1080P(AHD+TVI+CVI)	Mixed Input:8ch*1080P(AHD+TVI+CVI)	Mixed Input:16ch*1080P(AHD+TVI+CVI
	4ch*1080P(AHD +CVI+ Network	8ch*1080P(AHD +CVI+ Network	16ch*1080P(AHD +CVI+ Network)
	4ch*1080P(TVI +CVI+ Network)	8ch*1080P(TVI +CVI+ Network)	16ch*1080P(TVI+CVI + Network
	Pure Network: 4ch*1080P/4ch*720P	Pure Network: 8ch*1080P/8ch*720P	Pure Network:16*1080P/16ch*720P
AUDIO			
Audio Compression	G711A		
Two Way Audio	Support		
RECORD AND PLAYBACK			
Hard Drive	1 SATA(Each maximum support 6T)	2 SATA(Each maximum support 6T)	2 SATA(Each maximum support 6T)
Record	Manual/Event/Timer		
Playback	4ch(pure local input mode)	8ch(pure local input mode)	16ch(pure local input mode)
STORAGE AND BACKUP			
Space Occupation	960H:12G~20G/ day*channel		

Model	WBXHD041S WBXHD041S1T	WBXHD082S WBXHD082S2T	WBXHD162S WBXHD162S4T
	720P:10G~20G/ day*channel		
	1080P: 20G~30G/ day*channel		
	Audio:691.2M/ day*channel		
Backup Mode	USB HDD		
INTERFACE			
Video Input	4ch BNC（AHD/TVI/CVI/CVBS）	8ch BNC（AHD/TVI/CVI/CVBS）	16ch BNC（AHD/TVI/CVI/CVBS）
Video Output	1ch VGA,1ch HDMI,1ch CVBS		
Audio Input	4ch RCA	8ch RCA	6ch RCA
Audio Output	1ch RCA		
Alarm Input	N/A	4ch	
Alarm Output	N/A	1ch	
Network Interface	1 RJ45 10M/100M Adaptive Ethernet Port		
PTZ Control	RS485, Support Multiple PTZ Protocols		
USB	2 USB		
Hard Disk	1 SATA	2 SATA	
GENERAL			
Power	DC12V/2A	DC12V/4A	
Operating Temperature	-10℃ ~ 50℃ (14℉ ~ 122℉)		
Dimension	255mm(L)*255mm(W)*45mm(H)	350mm(L)* 295mm(W)*45mm(H)	
Product Weight (Excluding hard disk)	900g	1900g	

2 Hard Disk

2.1 Precautions

CAUTION

- Formatting will clear all video data on the hard disk. Use this function only when necessary.
- Be sure to uninstall the hard disk before removing it from the DVR during runtime; otherwise, the hard disk may be damaged or data may be lost.
- The DVR must be connected to a stable power supply during runtime; otherwise, the hard disk may be damaged or data may be lost.
- The maximum capacity of a single hard disk cannot exceed 6 TB.

2.2 Hard Disk Recommendation

Seagate or Western Digital hard disks which are highly stable and inexpensive are recommended.

2.3 Approximate Video Storage Duration

Table 2-1 Approximate Video storage duration

Maximum Hard Disk Capacity	Maximum Bit Rate	Approximate Video Storage Duration
1 ×6 TB	18 Mbps	28 days
2×6 TB	36 Mbps	28 days
4 ×6 TB	72 Mbps	28 days

Formulae for calculating the approximate video storage duration:

Step 1 Use the following formula to calculate the storage capacity **q** (unit: MBybte) required to record a single video per hour:

q = d/8×3600/1024

d indicates the bit rate (unit: Kbit/s).

Step 2 Use the following formula to calculate the approximate video storage duration **t** (unit: day)

$$t = \frac{n \times w}{q \times h \times c}$$

w indicates the capacity (unit: Mbyte) of a single hard disk.

n indicates the number of disks.

h indicates the recording duration per day.

c indicates the number of video inputs of the DVR.

Table 2-2 shows examples of approximate video storage duration (**h** is 24 hours).

Table 2-2 Examples of approximate video storage duration

Hard Disk Capacity	Bit Rate	Video Count	Approximate Video Storage Duration
1×6TB	D1, 1.5Mbps	4	85 days
1×6TB	720p, 3Mbps	4	47 days
1×6TB	1080p, 4.5Mbps	4	28 days
2×6TB	D1, 1.5Mbps	8	85 days
2×6TB	720p, 3Mbps	8	47 days
2×6TB	1080p, 4.5Mbps	8	28 days
4×6TB	D1, 1.5Mbps	16	85 days
4×6TB	720p, 3Mbps	16	47 days
4×6TB	1080p, 4.5Mbps	16	28 days

NOTE

The data listed in the preceding table is only for your reference. The recording time estimate may be different from the actual recording time. The user shall be liable for any loss incurred as a result thereof.

2.4 Hard Disk Installation

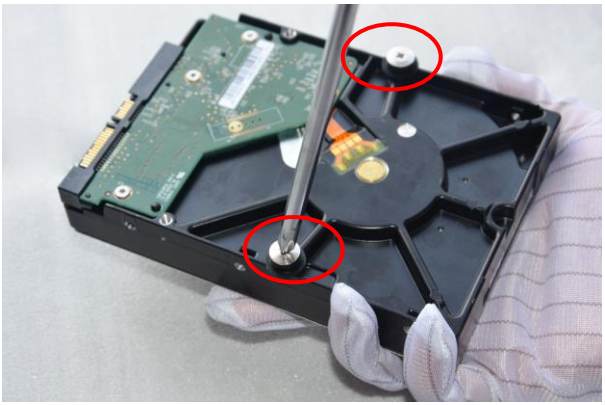
Take the following steps to install a hard disk:

Step 1 Unscrew the four fixing screws on both sides and one fixing screw on the back, then remove the upper cover, as shown in Figure 2-1.

Figure 2-1 Removing the upper cover

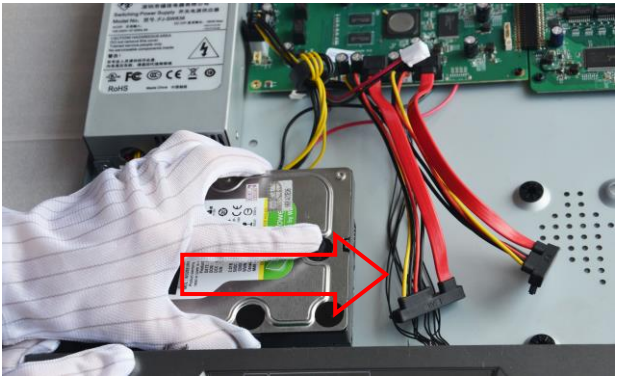
Step 2 Take out the hard disk fixing screws and silicone cushion included in the accessory package, route the fixing screw through the silicone cushion, and install it to the screw holes, as shown in Figure 2-2.

Figure 2-2 Installing the hard disk fixing screw



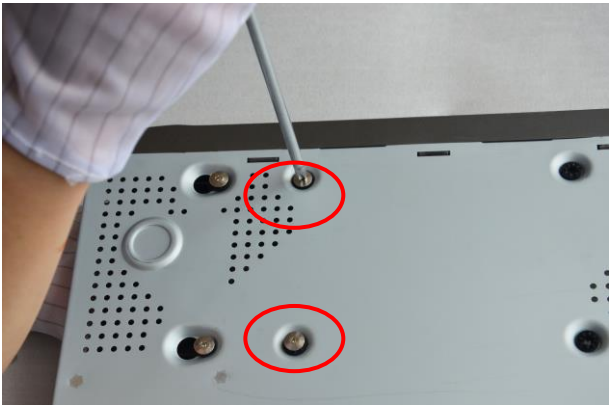
Step 3 Route the hard disk fixing screws through the holes on the base, push the hard disk to the appropriate position according to the direction of arrow, as shown in Figure 2-3.

Figure 2-3 Inserting the hard disk



Step 4 Turn the device over, and fasten two hard disk fixing screws, as shown in Figure 2-4.

Figure 2-4 Fixing the hard disk



Step 5 Install the other hard disk according to Step 2, Step 3, and Step 4, then insert the hard disk data cable and power cable, as shown in Figure 2-5.

Figure 2-5 Inserting the cable

Step 6 Put on the upper cover, and fasten the fixing screws, as shown in Figure 2-6.

Figure 2-6 Put on the upper cover

----End

3 Operation Instruction

3.1 Front panel

Figure 3-1 shows the front panel of DVR. Table 3-1 shows the description of front panel.

Figure 3-1 Front panel

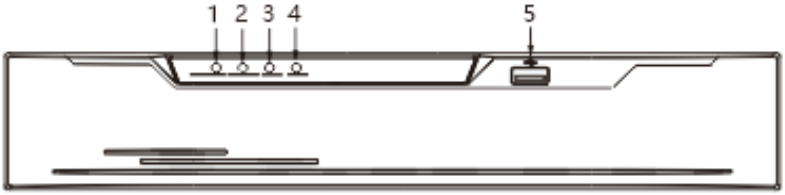


Table 3-1 Elements of the front panel

NO.	Element	Description
1	POWER	Power indicator, When DVR is operating, the Power indicator is steady on. When DVR is shut down, the PWR indicator is turned off.
2	ALARM	Alarm indicator This indicator flashes when alarm is transmitted
3	REC	Record indicator This indicator flashes when DVR is recording
4	NET	Net indicator This indicator flashes when DVR record
5	USB	Supports connection to a USB mouse, a USB flash drive or USB removable hard disk.

3.2 Rear panel

Figure 3-2 shows the rear panel of 0E-HD4C1TB and the interfaces on it.

Figure 3-2 Rear panel of 0E-HD4C1TB

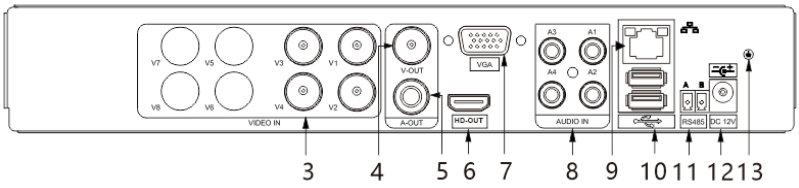


Figure 3-3 shows the rear panel of 0E-HD8C2TB and the interfaces on it.

Figure 3-3 Rear panel of 0E-HD8C2TB

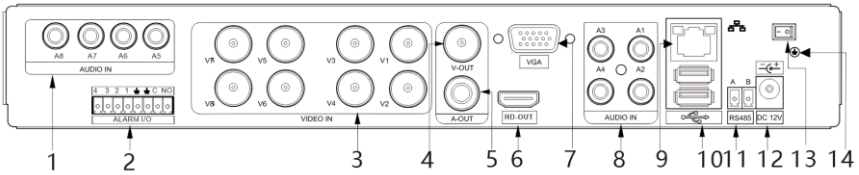


Figure 3-3 shows the rear panel of 0E-HD16C2TB and the interfaces on it.

Figure 3-4 Rear panel of 0E-HD16C2TB

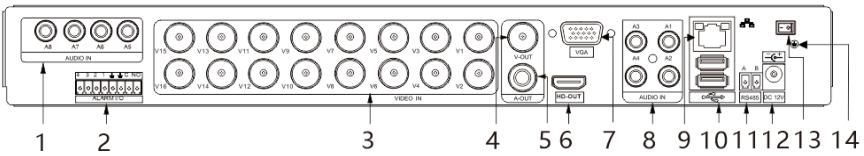


Table 3-2 shows the description of rear panel

Table 3-2 Elements of the real panel

NO.	Name	Description
1	AUDIO IN	Audio Input
2	ALARM I/O	Alarm Input/Output
3	VIDEO IN	Video input
4	CVBS	CVBS output interface
5	A-OUT	Audio output
6	HD-OUT	Video output interface
7	VGA	
8	AUDIO IN	Audio Input

NO.	Name	Description
9	LAN network interface	RJ45 10 /100/1000 Mbps adaptive Ethernet interface
10	USB	Supports connection to a USB mouse, a USB flash drive or USB removable hard disk.
11	RS485	RS485 port
12	DC power interface	Connected to an external power adapter
13	Power switch	-(Optional for different DVR)
14	Ground screw	Safe ground screw of the device

3.3 Startup

Before starting the DVR, ensure that the DVR is connected to a power supply.

When the DVR is connected to a power supply, it starts automatically upon the initial power-on.

CAUTION

- Ensure that a power supply is connected to the DVR correctly.
- Before starting the DVR, ensure that a monitor is connected to the HD-OUT or VGA interface of the DVR correctly.
- The DVR may not operate normally when a power supply exception occurs, likely causing damage to the DVR in serious conditions. In such a circumstance, you are advised to use a regulated power supply.

After the DVR is connected to a power supply, the power indicator is steadily on. Start the DVR. The real-time video screen is displayed, as shown in Figure 3-5.

Figure 3-5 Real-time video screen

NOTE

Users need to provide a hard disk for the DVR. The hard disk is strictly detected during device startup. If the detection result failed, the possible causes are as follows:

- The hard disk is new and is not formatted. Log in to the system and format the hard disk.
- The hard disk is formatted, but the file system is inconsistent with the file system supported by the DVR. Format the hard disk.
- The hard disk is damaged.

3.4 Powering off the Device

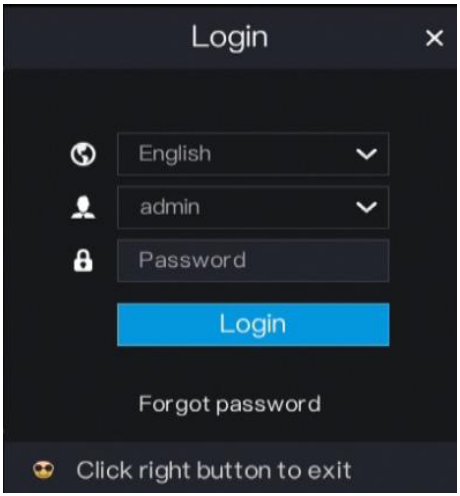
Click the main menu and choose **System setting** > **Advanced setting**, the advanced setting page is displayed, click shutdown to power off the DVR. If there is a power switch on the rear panel of the DVR, you can turn off the power switch to disconnect the DVR from the power supply.

3.5 Logging In to the System

Logging In to the Device

Step 1 On the DVR login page, select the language, as shown in Figure 3-6.

Figure 3-6 Login page



Step 2 Enter the username and password.

NOTE

- The username and password are both **admin**.
- If you forget password, click **Forgot password**. You can choose a way to find previous password:

  1. Scan the QR code and send the QR code to your seller.

  2. Click **Send Password to you E-mail**. A password retrieval email will be sent to your email address (for details, see 6.2.4 Step 6). Then, you can retrieve password by following operations described in the email.

Step 3 Click Login to access the main User Interface (UI).

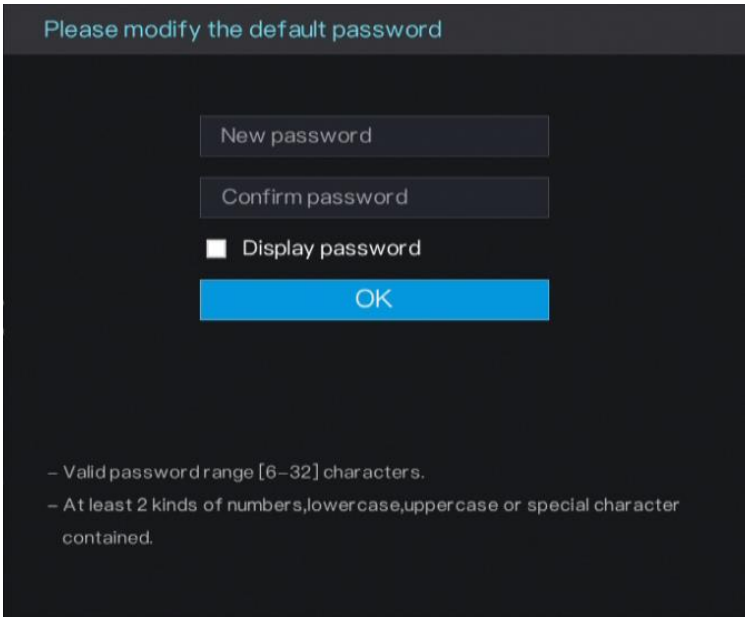
----End

3.6 Changing the Password

Description

The change default password page will be displayed as shown in Figure 3-7, when you login the system for the first time.

Figure 3-7 Change the default password page



Operation Steps

Step 1 Enter the new password, and confirmation password.

Step 2 Click **OK**.

The real-time video screen is displayed

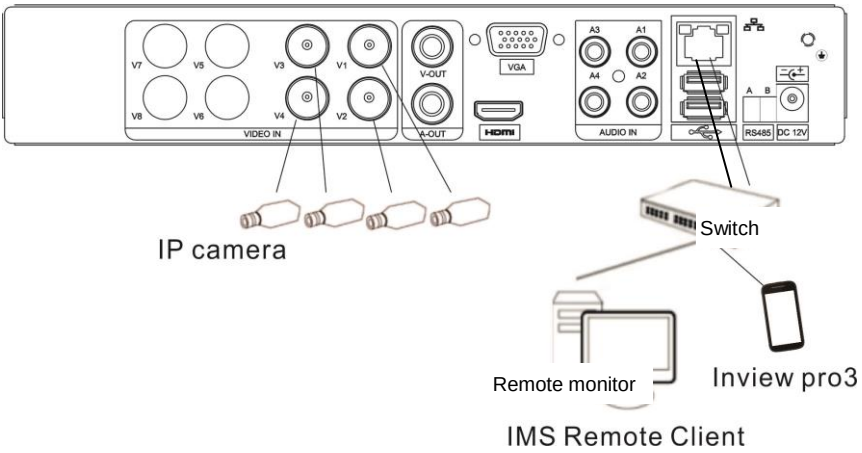
3.7 Adding Cameras

This DVR can be connected to both analog cameras and network cameras. The DVR gives preference to the access of the analog camera by default.

The DVR can be directly connected to analog cameras through bayonet nut connector (BNC) cables.

Figure 3-8 shows the topology of the DVR.

Figure 3-8 DVR topology



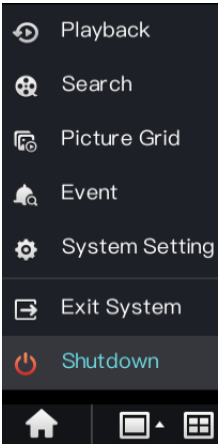
----End

4 Quick Navigation

After the DVR operation screen is displayed, move the cursor to the downmost position of the DVR screen. The DVR floating menu bar is displayed.

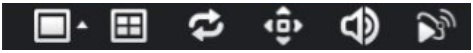
Click in the left of DVR floating menu bar. a quick main menu is displayed. The quick main menu provides **Playback**, **Search**, **Picture Grid**, **Event**, **System Setting**, **Exit System and Shutdown**, as shown in Figure 4-1.

Figure 4-1 Quick main menu



In the middle of DVR floating menu bar, the video tool bar provides **video window switching**, **Dwell on, pan-tilt-zoom (PTZ) control, audio, and video signa**l, as shown in Figure 4-2.

Figure 4-2 Real-time video toolbar



The real-time video toolbar is described as follows:

: layout button. After this button is clicked, the real-time video window is switched between the single-screen mode and multi-screen mode. Click on the right of screen splitting format and choose the channels to view the video.

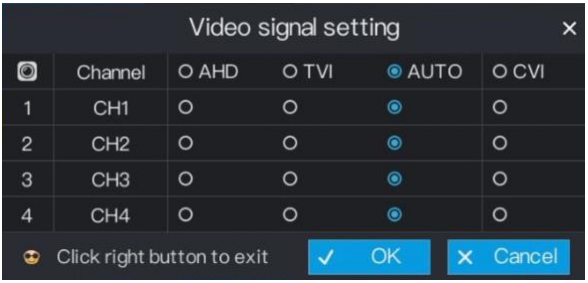
: Dwell on, After this button is clicked, the layout dwell on screen is enable, for how to set the dwell on, please see 6.4 Step 2.

: PTZ button. After this button is clicked, the PTZ operation screen is displayed, where you can adjust the PTZ to control cameras.

: Audio button. After this button is clicked, the audio setting screen is displayed, where you can choose the channel and adjust the volume.

: Video signal button. After this button is clicked, the video signal setting screen is displayed, as show in Figure 4-3.

Figure 4-3 Video signal setting



Normally, DVR video signal setting is **auto** by default, the DVR obtains the video signal of analog camera automatically.

When the video is displayed incorrectly, choose the same video signal according to the video signal of analog camera and click **OK** to save the signal setting.

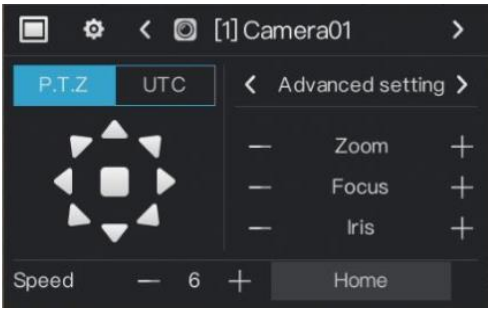
A main menu quick toolbar is display on the right of DVR floating menu bar. The main menu quick toolbar provides **Playback, Search, Picture grid, Event, System setting**, as shown in Figure 4-4.

Figure 4-4 Main menu quick toolbar

4.1 PTZ Operations

Click the PTZ button on the real-time video toolbar. The PTZ control page is displayed, as shown in Figure 4-5.

Figure 4-5 PTZ control



4.1.1 PTZ

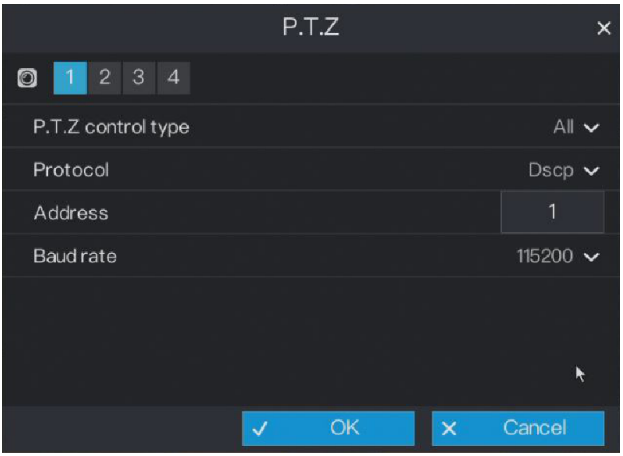
The PTZ control and function settings are applicable only to high-speed dome, PTZ cameras and cameras externally connected to PTZs,

The function in the PTZ control screen is described as follows:

: layout button. After this button is clicked, the real-time video window is switched.

: PTZ setting button. After this button is clicked, the PTZ setting page is displayed, as shown in Figure 4-6.

Figure 4-6 PTZ setting



Operation Steps

Step 2 Select a P.T.Z control type from the drop-down list box.

RS485: Use RS485 protocol to control analog high-speed domes and analog cameras with Motorized zoom lenses.

Coaxial: Use coaxial protocol to control analog high-speed domes and analog cameras with Motorized zoom lenses.

All: Math the RS485 or coaxial protocol automatically to control analog high-speed domes and analog cameras with Motorized zoom lenses.

Step 3 Select a type of protocol from the drop-down list box.

Step 4 Set an address.

Step 5 Select a baud rate from the drop-down list box.

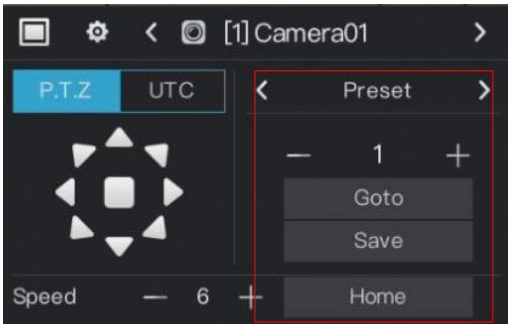
Step 6 Click **OK** to save P.T.Z setting or click cancel to cancel the P.T.Z setting.

Preset

You can configure preset positions and quickly rotate the camera to a preset position by invoking the preset position.

Click < or > of Advanced setting, the preset setting page is displayed, as the red frame shown in Figure 4-7.

Figure 4-7 . PTZ setting



Operation Steps

Step 1 Set preset.

1. Click — or + to set the preset ID.
2. Click direction button to rotate the camera to a position and click **Save** to save the preset.

Step 2 Invoke preset.

1. Select the preset ID.
2. Click **Goto** to invoke preset, the camera rotate the preset position.
   Or click **Home** to rotate the camera to the first preset position.

: Channel button. Click — or + to select the P.T.Z control channel.

Advanced setting: Click < or > to enter the preset setting page.

: direction button. Click this button to rotate the position of camera..

Speed: Click — or + to set the camera speed.

Zoom: Click — or + to zoom the lens in or out.

Focus: Click — or + to adjust the focal length.

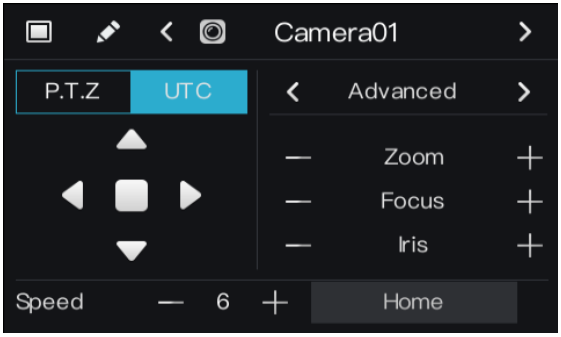
Iris: Click — or + to adjust the aperture.

4.1.2 UTC

The UTC control and function settings are applicable to front-end HD camera and OSD operation of front-end HD camera.

Click UTC in PTZ control page, the UTC screen is displayed, as shown in Figure 4-8.

Figure 4-8 UTC screen



For HD camera of Motorized lens, click — or + of zoom, focus and iris to adjust the view angle and focal length.

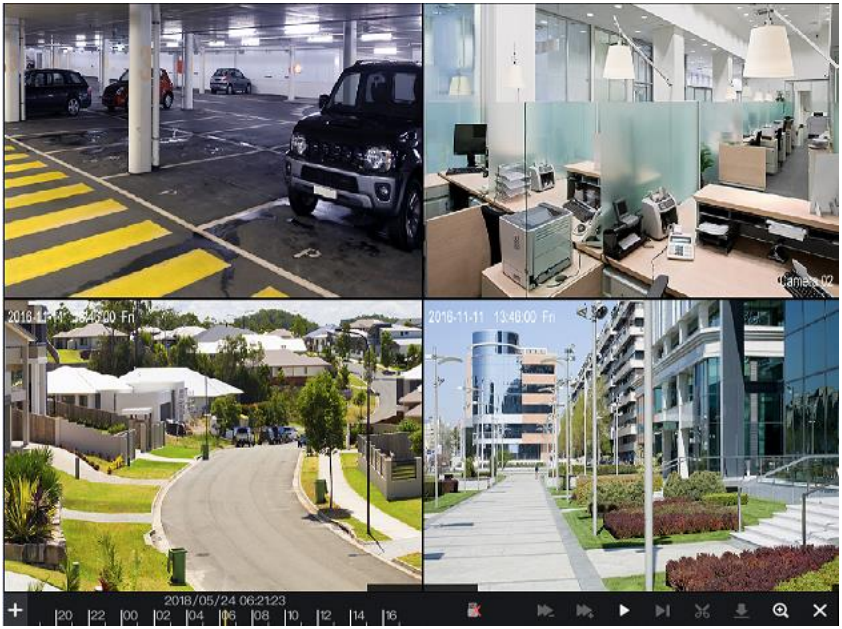
For details of OSD operation, see *Camera OSD Operation Guide*.

4.2 Playback

Playback refers to playing back a video.

Click **Playback** in the quick navigation bar to access the playback screen, as shown in Figure 4-9.

Figure 4-9 Playback screen



The toolbar at the bottom of the playback screen is described as follows:

: Slow play

: Fast forward

: Pause

: Backup. After this button is clicked, the video backup starts. This function is available after a USB flash drive is connected to the DVR.

: Download. After this button is clicked, the backup ends. This function is available after the backup function is enabled.

: Magnify. Apply only to a single screen. After this button is clicked, the image magnified to 150%, click this button again to restore the original size.

: Full screen off. After this button is clicked, the device returns to the real-time video screen.

: Indicates whether to insert a USB flash drive. indicates that a USB flash drive is inserted into the DVR. indicates that no USB flash drive is inserted into the DVR.

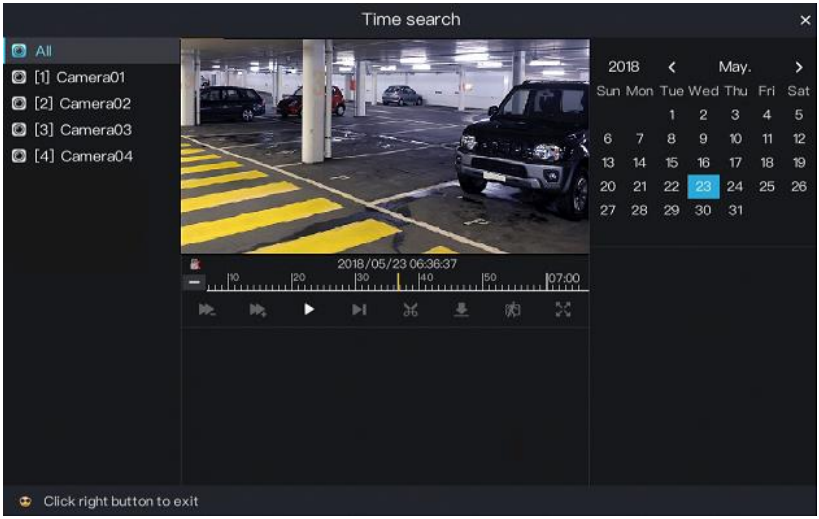
4.3 Search

Search refers to searching for a video by date and time.

Operation Description

Click **Search** in the quick navigation bar to access the search screen, as shown in Figure 4-10.

Figure 4-10 Search screen



The toolbar at the bottom of the play window is described as follows:

: Slow play

: Fast forward

: Pause

: Backup. After this button is clicked, the video backup starts. This function is available after a USB flash drive is connected to the DVR.

: Download. After this button is clicked, the backup ends. This function is available after the backup function is enabled.

: Intelligent motion detection. After this button is clicked, the device automatically locates a moving target.

: Full screen. After this button is clicked, the device plays a video in full screen.

Operation Steps

Step 1 Click a camera in the camera list on the left side of the search screen. The video view of the selected camera is displayed in the play window.

Step 2 Select a date in the calendar on the right side of the search screen.

Click or on the left side of the time axis below the play window to switch the time axis, and then select time. Then, the play window plays the video in the specified time range.

NOTE

: Videos are searched on an hourly basis.

: Videos are searched on 24 hourly basis.

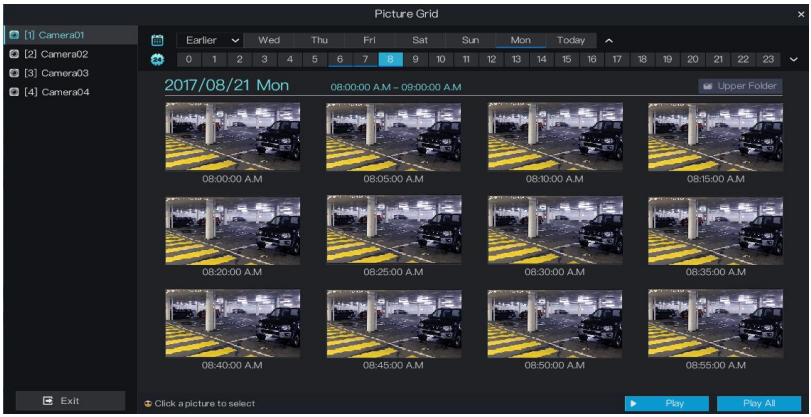
----End

4.4 Picture Grid

Picture grid refers to evenly dividing the video of a channel by time range and searching for a video based on thumbnails divided by time range.

Click **Picture Grid** on the quick navigation bar to access the picture grid screen, as shown in Figure 4-11.

Figure 4-11 Picture grid screen



Operation Steps

Step 1 Select a camera in the camera list on the left side of the picture grid screen. Videos shot by the camera in the earliest time range on the current day are displayed as thumbnails in the window on the right side.

Step 2 Select a day of a week on the right of .

Step 3 Select a time range on the right of . For example, if you select **7**, it indicates that the selected time range is 07:00:00-08:00:00.Videos in this time range are displayed as 12 thumbnails at an interval of 5 minutes in the window on the right.

Step 4 Select a required thumbnail, double-click it or right-click it and choose **Play** from the shortcut menu to play the video.

----End

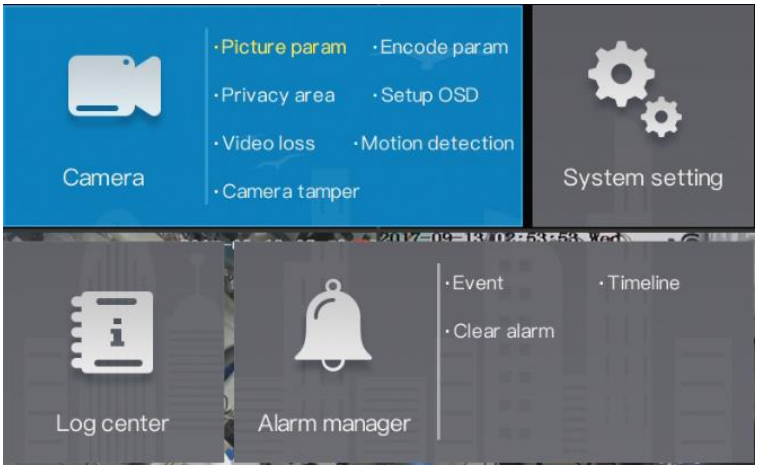
4.5 Event

Click **Event** on the quick navigation bar to access the alarm event screen. For details about the screen and operations on this screen, see 8.1 "Event".

4.6 Main Menu

Right-click on the main UI. The main menu as shown in Figure 4-12 is displayed. The main menu includes **Camera**, **Setting**, **Log Center**, and **Alarm**.

Figure 4-12 DVR main menu



----End

5 Camera Management

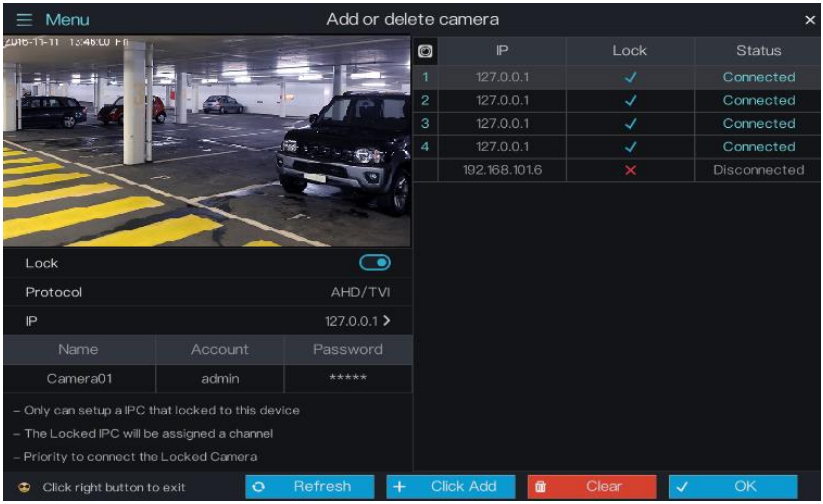
Camera management mainly involves analog cameras and network cameras. Analog cameras can be directly connected to input channels of the DVR. When analog cameras are insufficient, the DVR automatically searches for and adds network cameras in the same Local Area Network (LAN).

Camera management includes camera add or delete, picture parameter, encode parameter, video loss, motion detection, privacy area, camera tamper, and setup OSD.

Operation Description

Click **Camera** in the main menu to access the camera management screen, as shown in Figure 5-1.

Figure 5-1 Camera management screen



5.1 Camera Management

5.1.1 Lock a Camera

On the camera management screen, check the locking status of network cameras in the camera list on the right side. If the locking status of a network camera is , you can lock the camera manually.

Operation Steps

Step 1 Select a network camera to be locked in the camera list on the right side. The real-time video and basic information of the network camera are displayed on the left side.

Step 2 Click the button next to **Lock** below the play window. The button turns blue and the locking status is changed to in the camera list on the right side, click **OK**, indicating that the camera is locked successfully.

NOTE

- Analog addresses directly connected to the DVR are locked preferentially and are assigned the IP address 127.0.0.1. When channels of the DVR are insufficient for the access of analog cameras, they automatically occupy the channels of network cameras.
- If all channels of the DVR are bound to cameras, you need to unbind cameras that do not need to be bound.
- You can choose **Click Add** to automatically add cameras of all idle channels.
- If a network camera is added, enter the username and password of the camera below the play window. The video of the camera can be viewed only after successful login.

5.1.2 Unlock a Camera

Operation Steps

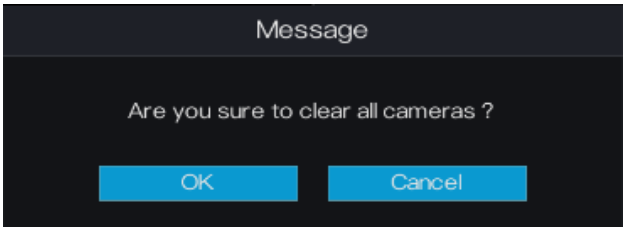
Step 1 Select a camera to be unlocked in the camera list on the right side. Information about the camera is displayed below the play window.

Step 2 Click the button next to **Lock** below the play window. The button turns white and the locking status is changed to in the camera list on the right side, indicating that the camera is unlocked successfully.

NOTE

If you click **Clear**, a message as shown in Figure 5-2 is displayed. Click **OK** to unbind network cameras of all channels of the DVR.

Figure 5-2 Unlock confirmation message



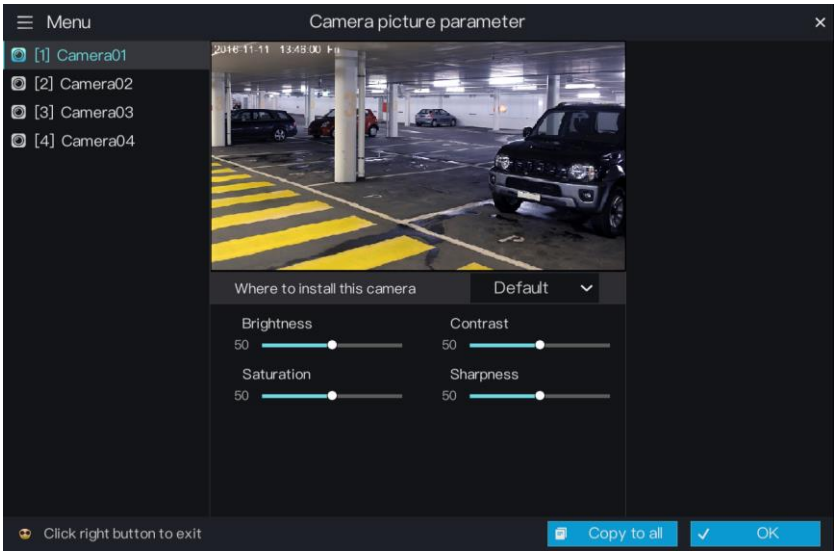
5.2 Picture Parameter

Picture parameters refer to basic attributes of a picture, including the lightness, saturation, contrast, and sharpness. You can set picture parameters for each channel based on scenarios.

Operation Description

Click **Picture Param** next to **Camera** in the main menu or click **Menu** in the upper left corner of the camera management screen and choose **Picture Param** to access the **Picture Parameter** screen, as shown in Figure 5-3.

Figure 5-3 Picture Parameter screen



The picture parameters are described as follows:

Brightness: picture brightness.

Saturation: brilliance of the picture color.

Sharpness: picture clarity.

Contrast: picture transparency.

Operation Steps

Step 1 Click a camera in the camera list on the left side of the Picture Parameter screen.

Step 2 Select **where to install this camera** from the drop-down list. The default values of picture parameters vary with scenarios.

Step 3 Set the camera brightness, contrast, saturation, and sharpness.

Step 4 Click **OK** to save picture parameter settings or click **Copy to all**, then click **OK** to apply the parameter settings to cameras of all channels.

----End

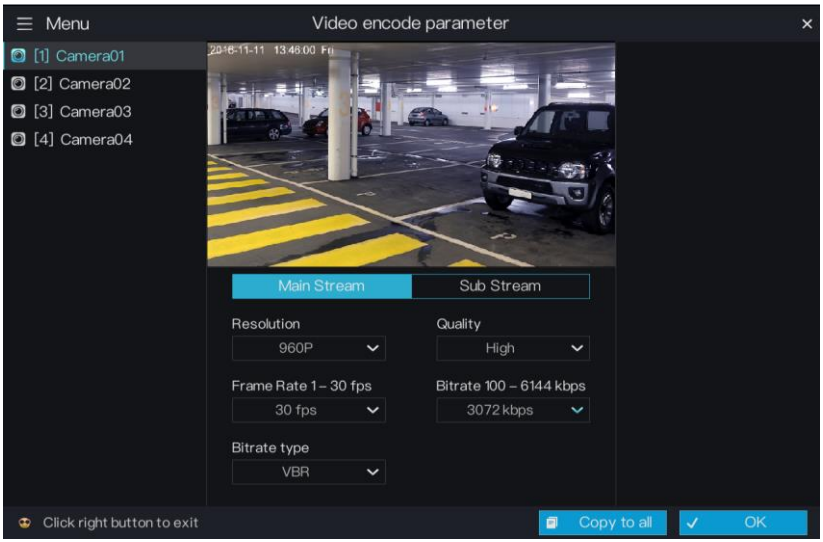
5.3 Encode Parameter

The system allows you to set the main video resolution, sub video resolution, and image quality (low-quality, medium-quality, high-quality, or best-quality) for cameras in a channel, and view the frame rate and stream size in **Encode Parameter**.

Operation Description

Click **Menu** in the upper left corner of the camera management screen and choose **Encode Param** to access the **Encode Parameter** screen, as shown in Figure 5-4.

Figure 5-4 Encode Parameter screen



Operation Steps

Step 1 Click a camera in the camera list on the left side of the **Encode Parameter** screen.

Step 2 Select Main Video or Sub Video.

Step 3 Set Resolution, Quality, Frame rate, Bitrate and Bitrate type.

Step 4 Click **OK** to save encode parameter settings or click **Copy to all** , then click **OK** to apply the parameter settings to cameras of all channels.

----End

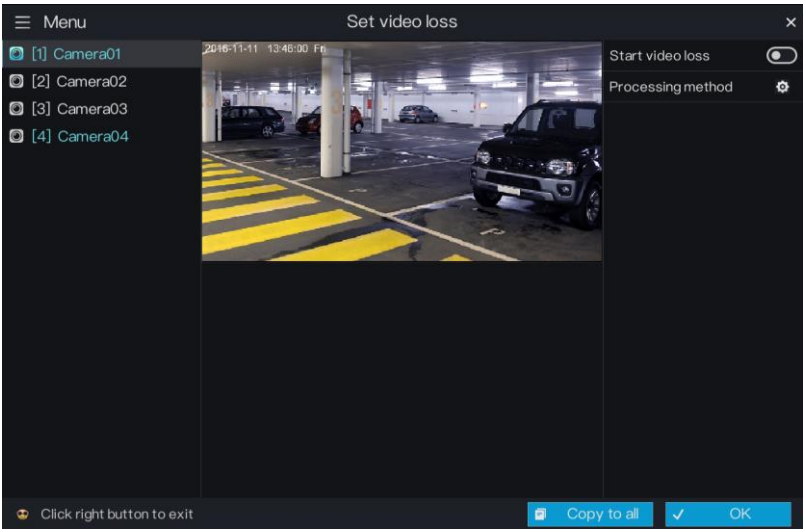
5.4 Video loss

If a camera was disconnected, it will show video loss.

Operation Description

Click **Menu** in the upper left corner of the camera management screen and choose **Video loss** to access the **video loss** screen, as shown in Figure 5-5.

Figure 5-5 Encode Parameter screen



Operation Steps

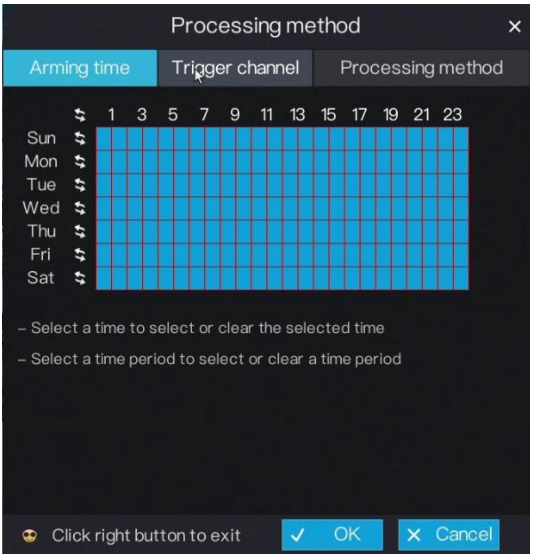
Step 1 Enable video loss.

Click next to Start video loss to enable video loss.

Step 2 Set arming time.

Click on the right of Processing method to access arming time setting screen of processing method, as shown in Figure 5-6.

Figure 5-6 Arming time screen



Step 3 Arming time setting：

Method 1： Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday.

Method 2： Hold down the left mouse button, drag and release mouse to select the arming time within 0:00-24:00 from Monday to Sunday.

NOTE

When you select time by dragging the cursor, the cursor cannot be moved out of the time area. Otherwise, no time can be selected.

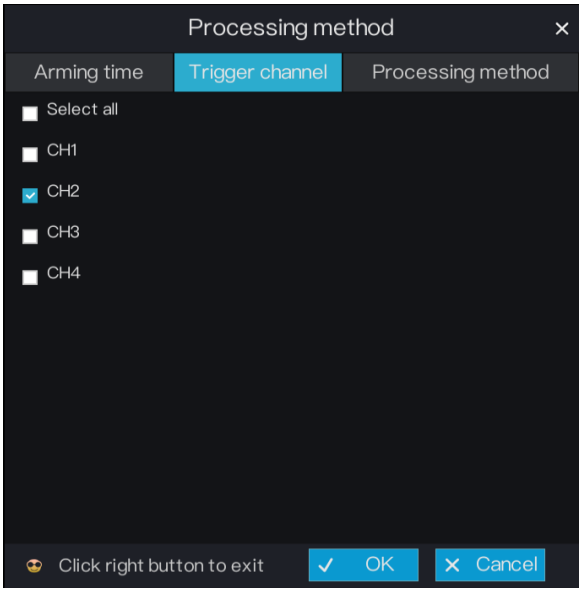
Method 3： Click in the arming time page to select the whole day or whole week.

Deleting arming time: Click again or inverse selection to delete the selected arming time.

Step 4 Set trigger channel.

1. Click **Trigger channel** tag to access trigger channel screen, as shown in Figure 5-7.

Figure 5-7 Trigger channel screen



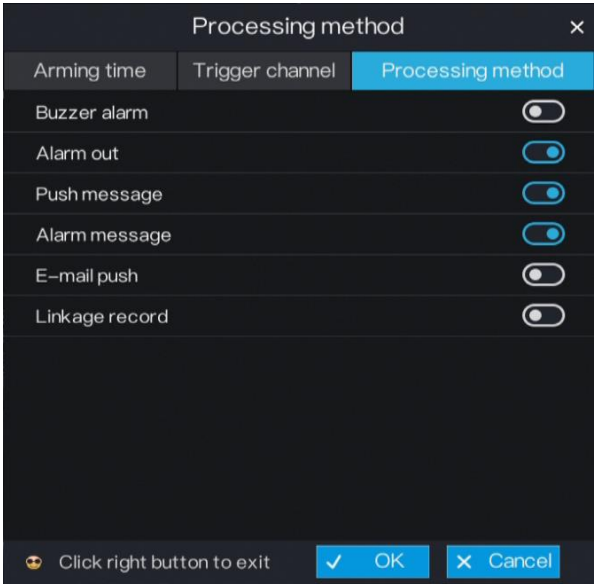
.

2. Select the trigger channel of current channel.
3. Click **OK** to save trigger channel settings or click **Cancel** to cancel the settings.

Step 5 Set Processing method.

1. Click **Processing method** tag to access processing method screen, as shown in Figure 5-8.

Figure 5-8 Processing method screen



2. Click of “Buzzer alarm”, Push message”, “Alarm message”, “Linkage record” respectively to enable or disable these function.
3. Click **OK** to save processing method settings or click **Cancel** to cancel the settings.

Step 6 Click **OK** to save video loss settings or click **Copy to all**, then click **OK** to apply the video loss settings to cameras of all channels.

----End

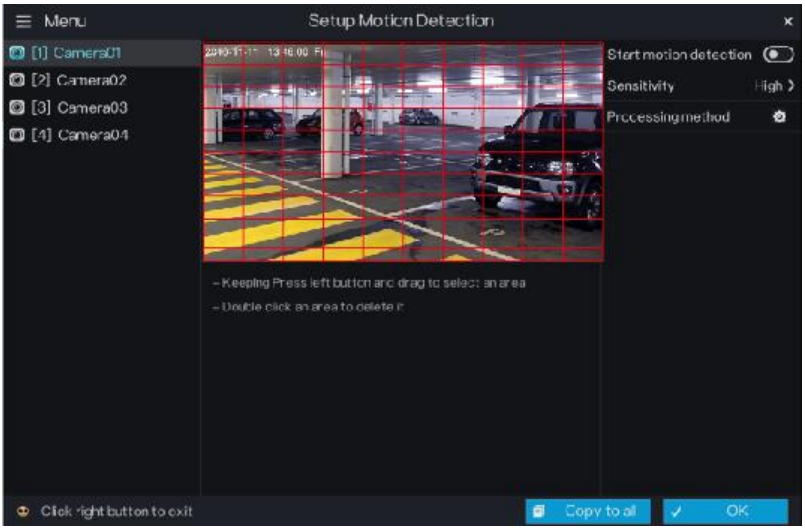
5.5 Motion Detection

Motion detection refers that an alarm is triggered when an image in a specified area changes.

Operation Description

Click **Menu** in the upper left corner of the camera management screen and choose **Motion Detection** to access the **Motion Detection** screen, as shown in Figure 5-9.

Figure 5-9 Motion Detection screen



Operation Steps

Step 1 Select a camera in the camera list on the left side of the **Motion Detection** screen.

Step 2 Click next to **Start Motion Detection** to enable motion detection.

Step 3 In the video window, hold down and drag the left mouse button to draw a motion detection area.

Step 4 Select a value from the drop-down list next to **Sensitivity**.

Step 5 Click next to Processing method to access processing method screen.

For details, please see Step 2~Step 5.

Step 6 Click **OK** to save motion detection settings or click **Copy to all**, then click **OK** to apply the motion detection settings to cameras of all channels.

NOTE

- After a motion detection area is selected, you can double-click it to delete the selected area.
- A maximum of four areas can be configured.

----End

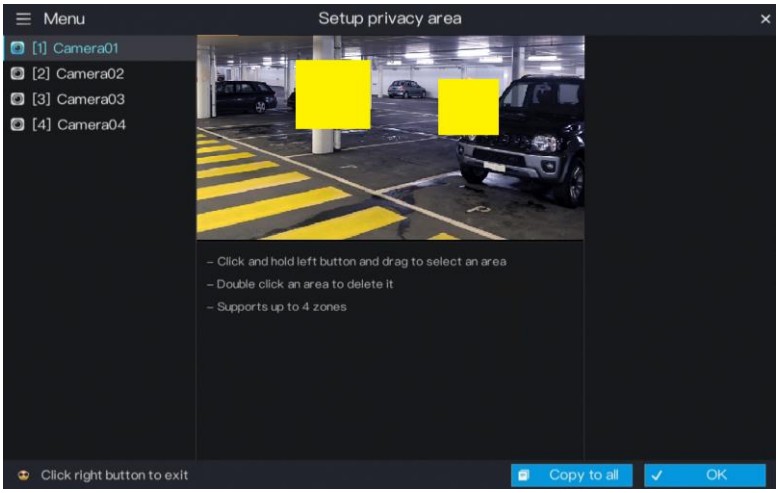
5.6 Privacy Area

The system allows you to mask images in a specified area and this area is called privacy area.

Operation Description

Click **Menu** in the upper left corner of the camera management screen and choose **Privacy area** to access the **Privacy area** screen, as shown in Figure 5-10.

Figure 5-10 Privacy Area screen



Operation Steps

Step 1 Select a camera in the camera list on the left side of the **Privacy area** screen.

Step 2 In the video window, hold down and drag the left mouse button to draw a privacy area.

Step 3 Click **OK** to save privacy area settings or click **Copy to all**, then click **OK** to apply the privacy area settings to cameras of all channels.

----End

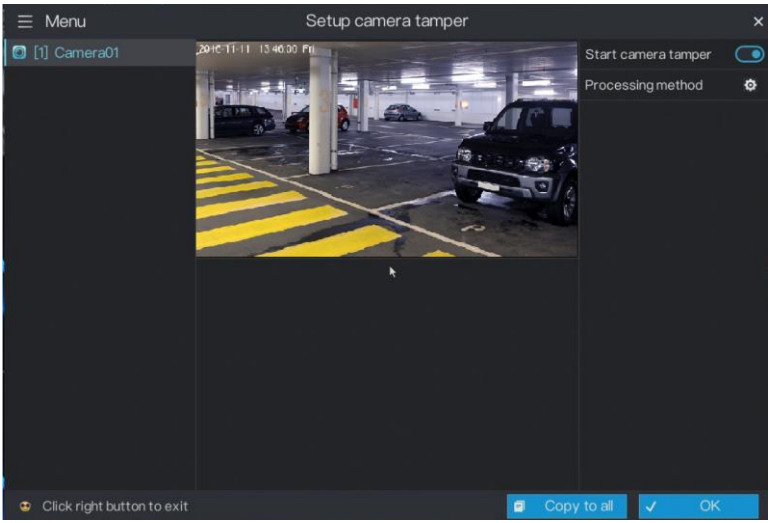
5.7 Camera tamper

Camera Tamper refers to the occurrence of tampered or shifted in video image. An alarm is generated if such an event occurs.

Operation Description

Click **Menu** in the upper left corner of the camera management screen and choose **Camera tamper** to access the **Camera tamper** screen, as shown in Figure 5-11.

Figure 5-11 Camera tamper screen



Operation Steps

Step 1 Select a camera in the camera list on the left side of the **camera tamper** screen.

Step 2 Click next to **Start camera tamper** to enable camera tamper.

Step 3 Click next to **Processing method** to access processing method screen.

For details, please see Step 2~Step 5.

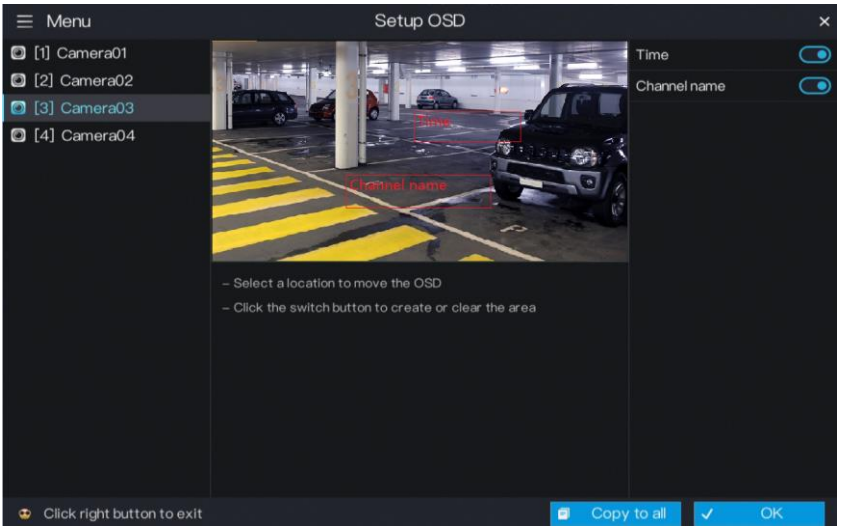
Step 4 Click **OK** to save camera tamper settings or click **Copy to all**, then click **OK** to apply the camera tamper settings to cameras of all channels.

----End

5.8 OSD settings

Click **Menu** in the upper left corner of the camera management screen and choose **Setup OSD** to access the **OSD setting** screen, as shown in Figure 5-12.

Figure 5-12 OSD setting screen



Operation Steps

Step 1 Select a camera in the camera list on the left side of the **OSD setting** screen.

Step 2 Click next to **Time** to enable or disenable OSD time setting.

Step 3 Click next to **Channel** to enable or disenable OSD channel setting.

Step 4 Click **OK** to save OSD settings or click **Copy to all** ,then click **OK** to apply the OSD settings to cameras of all channels.

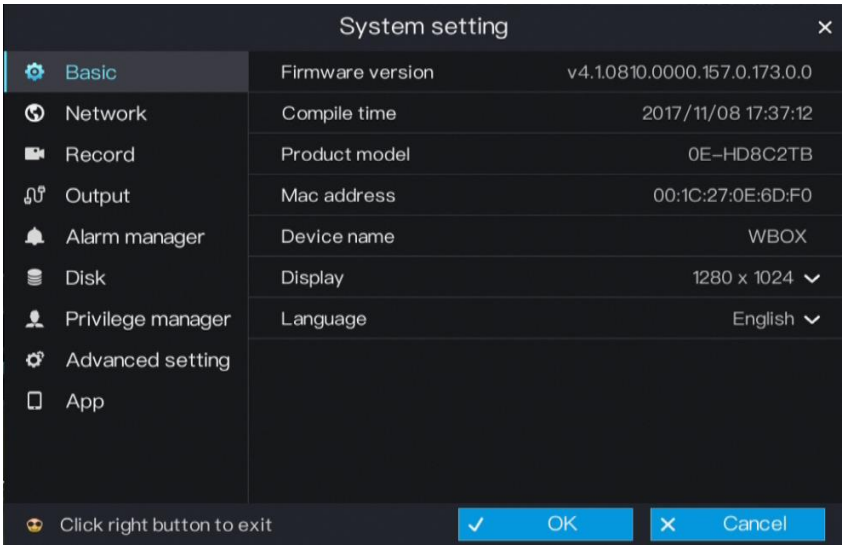
NOTE

In the video window, click and drag time or channel to move to a location.

6 System setting

The system setting allows you to set basic information, network, record, output, alarms manager, disk, privacy manager, advanced setting, and App for the system in **System Setting**. Figure 6-1 shows the system setting screen.

Figure 6-1 System setting screen



6.1 Basic

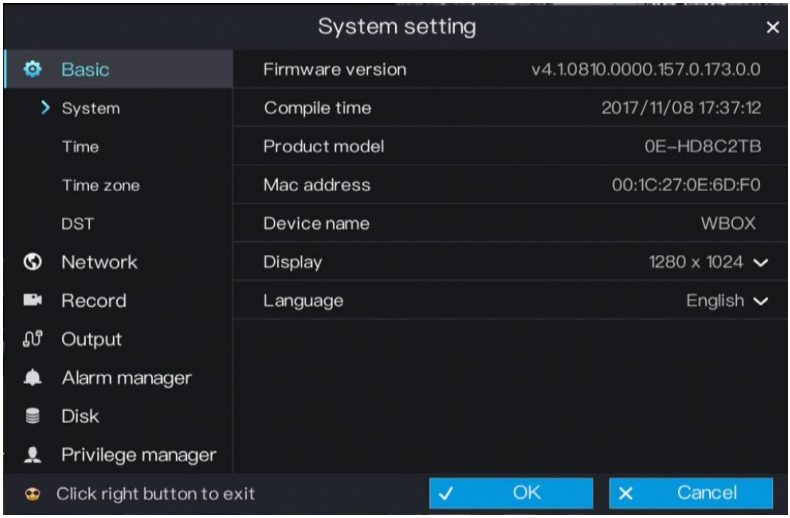
The system allows you to view the firmware version, compile time and product model, set the device name, display resolution, system language, time zone, time and date and DST in **Basic**.

6.1.1 System

Operation Steps

Step 1 On the **System setting** screen, choose **Basic** > **System** to access the **System setting** screen, as shown in Figure 6-2.

Figure 6-2 System setting screen



Step 2 Enter Device name for selected device.

Step 3 Select a proper resolution from the **Display** drop-down list based on the adopted monitor.

Step 4 Select a required language from the **Language** drop-down list.

Step 5 Click **OK** to save system settings or click **Cancel** to cancel settings.

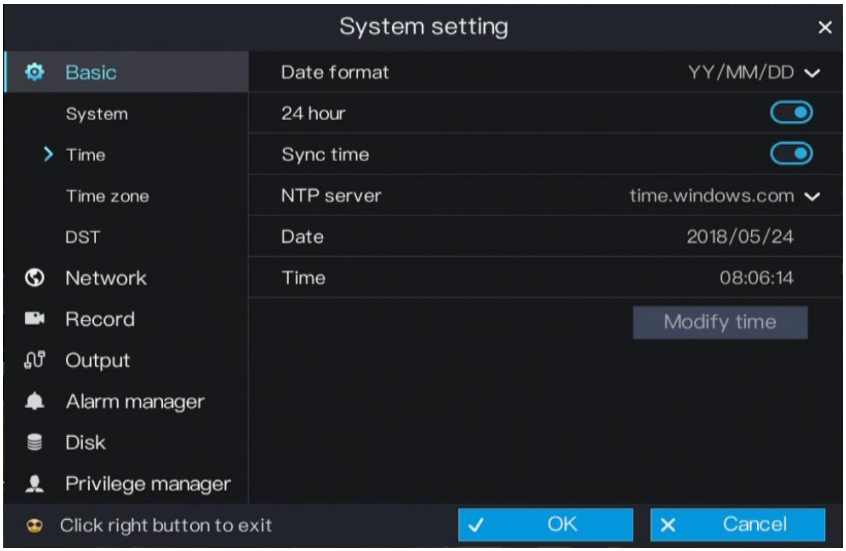
----End

6.1.2 Time

Operation Steps

Step 1 On the **System setting** screen, choose **Basic** > **Time** to access the time setting screen, as shown in Figure 6-3.

Figure 6-3 Time setting screen



Step 2 Select a required date format from the **Date Format** drop-down list.

Step 3 Click next to **24 Hour** to disable the 24-hour system. Then, the 12-hour system is enabled. If **24 Hour** is set to On, the 24-hour system is used and is enabled by default.

Step 4 Click next to **Sync Time** to disable time synchronization. Time synchronization is enabled by default. Time is synchronized with the PC time.

Step 5 After **Sync Time** is disabled, you can manually set the system time:

Click **Date** and scroll the mouse scroll wheel to select the year, month, and date.

1. Click **Time** and scroll the mouse scroll wheel to select the hour, minute, and second.
2. Click **Modify Time** to save the time settings.

Step 6 Click **OK** to save settings or click **Cancel** to cancel settings.

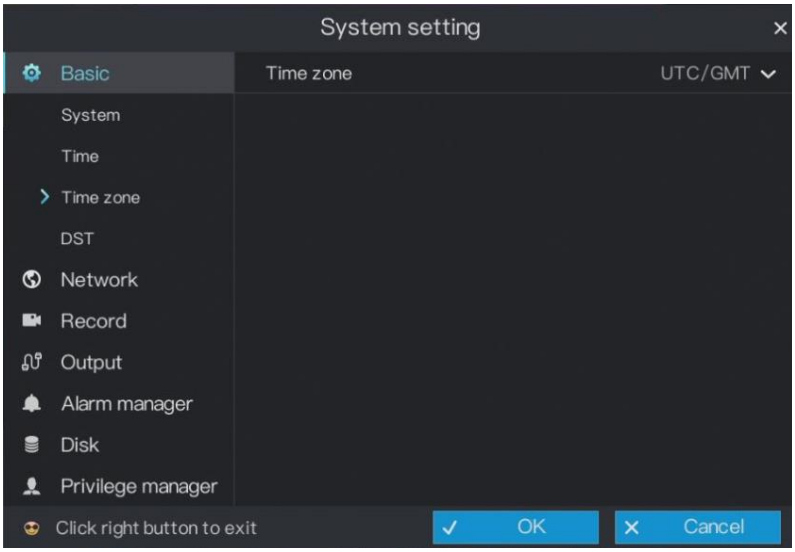
----End

6.1.3 Time zone

Operation Steps

Step 1 On the **System setting** screen, choose **Basic** > **Time zone** to access the time zone setting screen, as shown in Figure 6-4.

Figure 6-4 Time zone setting screen



Step 2 Select a required time zone from the **Time Zone** drop-down list.

Step 3 Click **OK** to save settings or click **Cancel** to cancel settings.

----End

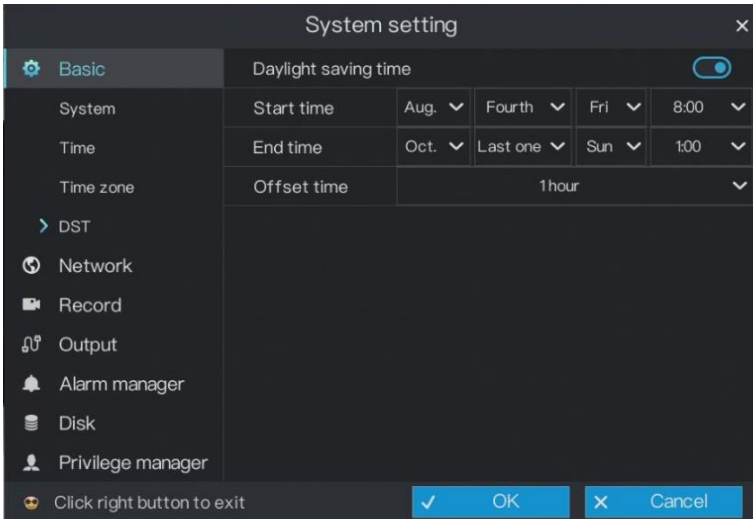
6.1.4 DST

When the DST start time arrives, the device time automatically goes forward one hour. When the DST end time arrives, the device time automatically goes backward one hour.

Operation Steps

Step 1 On the **System setting** screen, choose **Basic** > **DST** to access the DST setting screen, as shown in Figure 6-5.

Figure 6-5 DST setting screen



Step 2 Click next to **Daylight saving time** to enable DST.

Step 3 Select start time, end time, offset time from the drop-down list respectively.

Step 4 Click **OK** to save settings or click **Cancel** to cancel settings.

----End

6.2 Network

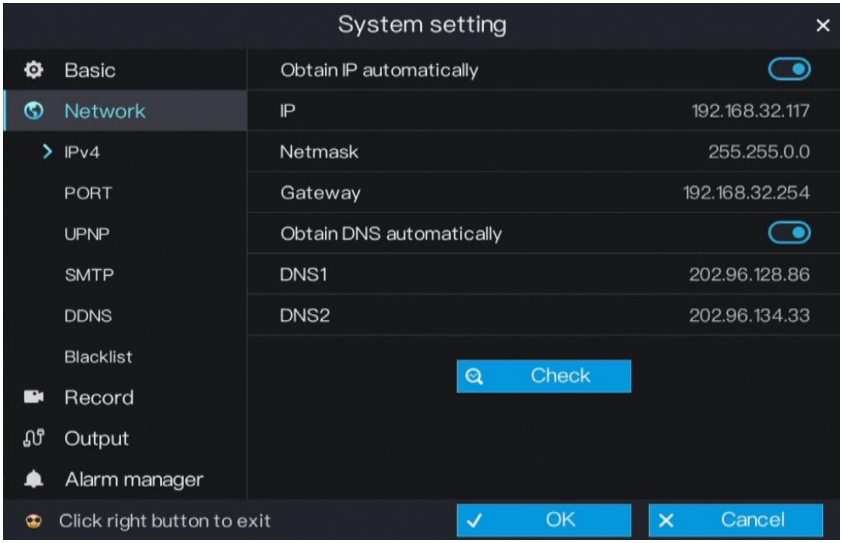
6.2.1 Ipv4

IPv4 is the IP protocol that uses an address length of 32 bits.

Operation Steps

Step 1 On the **System setting** screen, choose **Network** > **IPv4** to access the Ipv4 setting screen, as shown in Figure 6-6.

Figure 6-6 Ipv4 setting screen



Step 2 Click next to **Obtain IP automatically** to enable or disable the function of automatically getting an IP address. The function is enabled by default.

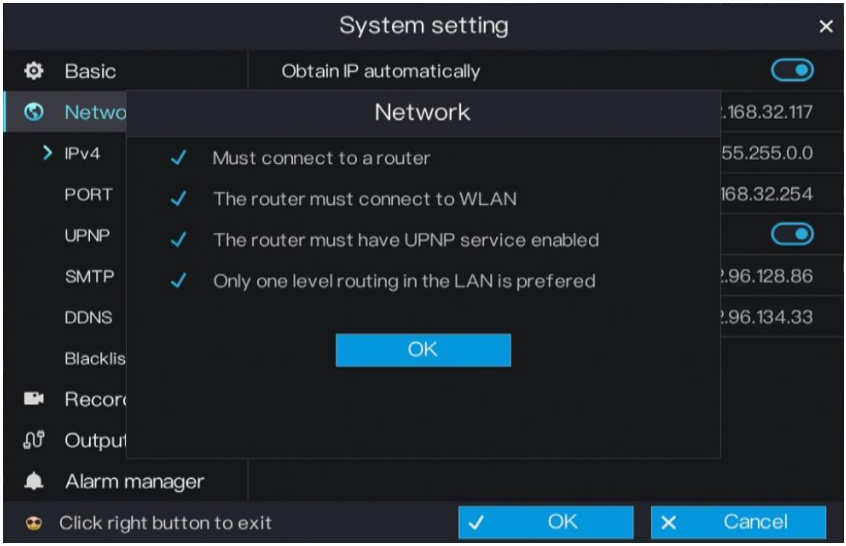
If the function is disabled, click input boxes next to **IP**, **Netmask**, and **Gateway** to set the parameters as required.

Step 3 Click next to **Obtain DNS Automatically** to enable or disable the function of automatically getting a DNS address. The function is enabled by default.

If the function is disabled, click input boxes next to **DNS1** and **DNS2**, delete original addresses, and enter new addresses.

Step 4 Click **Check**. The system automatically checks network settings and the dialog box as shown in Figure 6-7 is displayed. Check and connect the network based on network check results.

Figure 6-7 Network check screen



Step 5 Click **OK** to save IPv4 network settings or click **Cancel** to cancel settings.

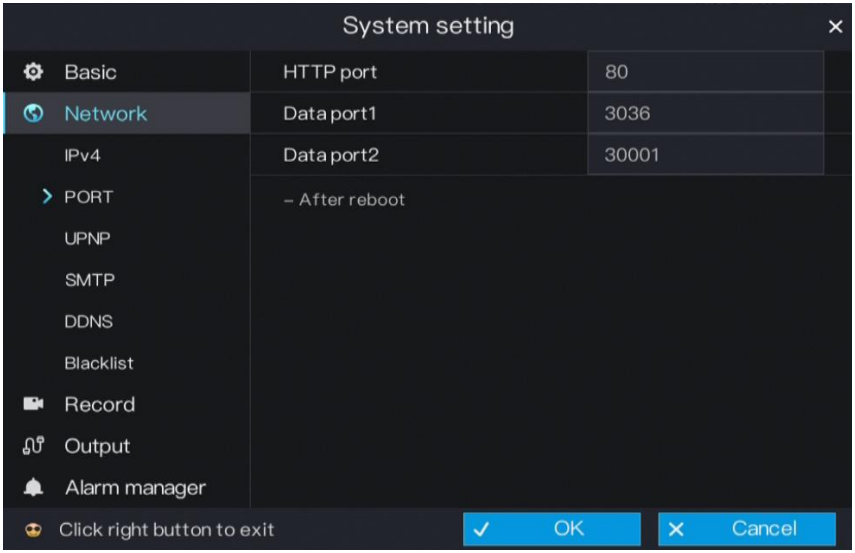
----End

6.2.2 Port

Operation Steps

Step 1 On the **System setting** screen, choose **Network** > **PORT** to access the port setting screen, as shown in Figure 6-8.

Figure 6-8 Port setting screen



Step 2 Set HTTP port, Data port1 and Data port2 respectively.

Step 3 Click **OK** to save settings or click **Cancel** to cancel settings.

NOTE

- Data Port1 used as RTSP port
- Data Port2 used as video control port
- After Ports is set and saved ,please click OK and Reboot. the port is set successfully.

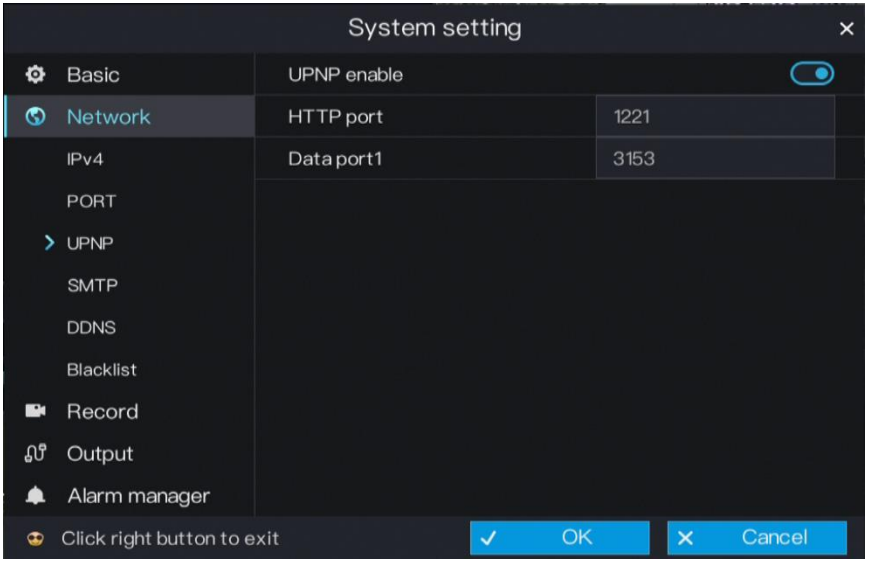
----End

6.2.3 UPNP

Operation Steps

Step 1 On the **System setting** screen, choose **Network** > **UPNP** to access the port mapping setting screen, as shown in Figure 6-9.

Figure 6-9 Port mapping setting screen



Step 2 Click next to **UPNP** to enable or disable the function of UPNP. The function is enabled by default.

Step 3 After **UPNP** is disabled, you can manually set the HTTP port and Data port1.

Step 4 Click **OK** to save settings or click **Cancel** to cancel settings.

NOTE

- After UPNP button is enabled, System perform port mapping automatically.
- If UPNP is set OFF, you need to forward the ports by manually on router.

----End

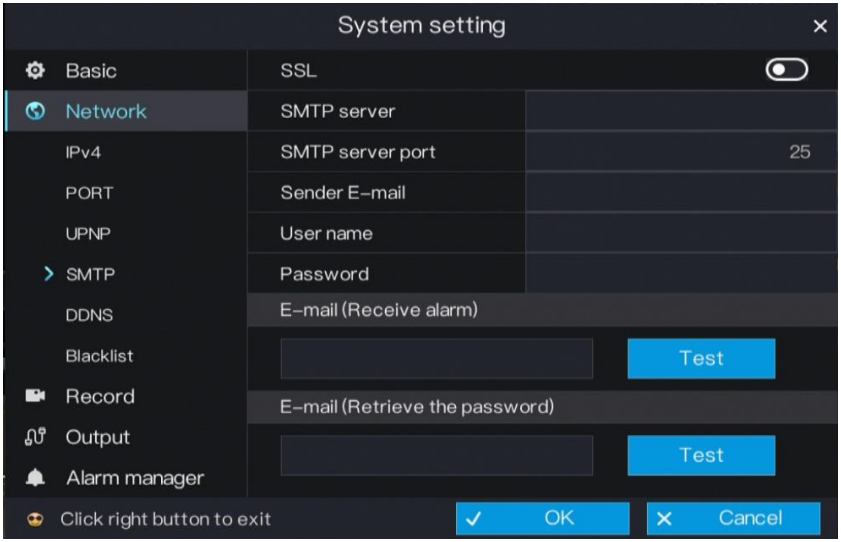
6.2.4 SMTP

If the Simple Mail Transfer Protocol (SMTP) function is enabled, the device automatically sends alarm information to specified email addresses when an alarm is generated.

Operation Steps

Step 1 On the **System setting** screen, choose **Network** > **SMTP** to access the SMTP setting screen, as shown in Figure 6-10.

Figure 6-10 SMTP setting screen



Step 2 Click next to **SSL** to enable or disable the function of SSL. The function is disabled by default.

Step 3 Set SMTP server and SMTP server port manually.

Step 4 Set sender E-mail, user name and password manually.

Step 5 Set E-mail for receive alarm. the message “Mail has been sent, please check” is displayed. Open the mail, if the verification code is received, that shows the E-mail is set successfully.

Step 6 Set E-mail for retrieve the password. the message “Mail has been sent, please check” is displayed. Open the mail,

Step 7 if the verification code is received, that shows the E-mail is set successfully.

Step 8 Click **OK** to save settings or click **Cancel** to cancel settings.

----End

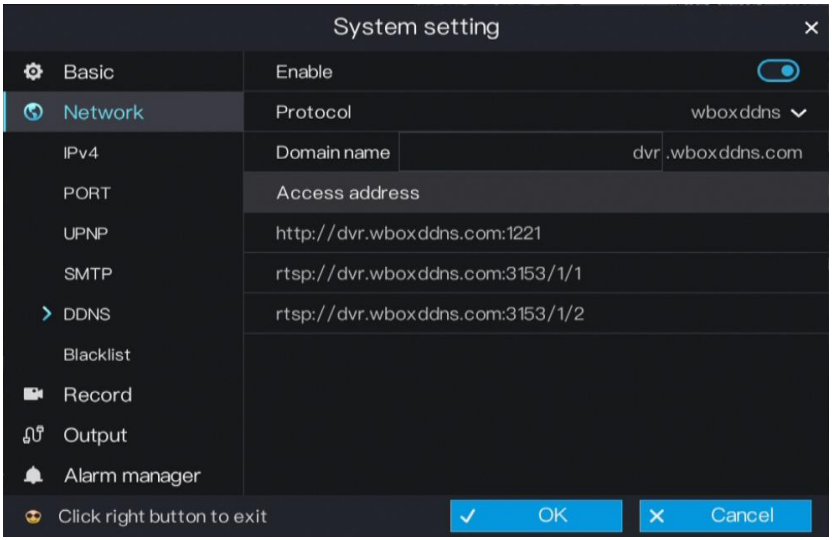
6.2.5 DDNS

Connect the specified camera to the Internet, and obtain the user name and password for logging into the Dynamic Domain Name System (DDNS) server.

Operation Steps

Step 1 On the **System setting** screen, choose **Network** > **DDNS** to access the DDNS network setting screen, as shown in Figure 6-11.

Figure 6-11 DDNS setting screen



Step 2 Click the button next to **Enable** to enable the DDNS function. It is disabled by default.

Step 3 Select a required value from the **Protocol** drop-down list.

Step 4 Click **OK** to save DDNS network settings or click **Cancel** to cancel settings.

NOTE

An external network can access an address specified in the DDNS settings to access the DVR.

----End

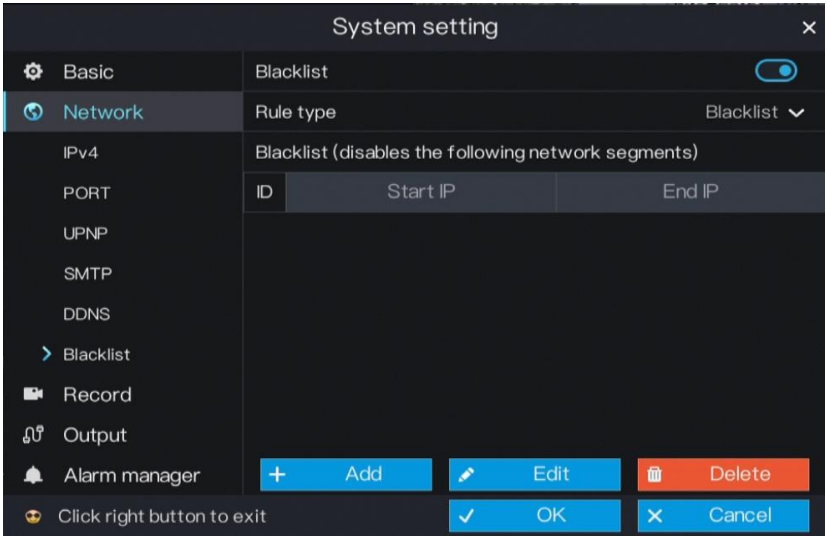
6.2.6 Blacklist

Set the IP address in specified network segment to allow access or prohibit access.

Operation Steps

Step 1 On the **System setting** screen, choose **Network** > **Blacklist** to access the blacklist setting screen, as shown in Figure 6-12.

Figure 6-12 Blacklist screen

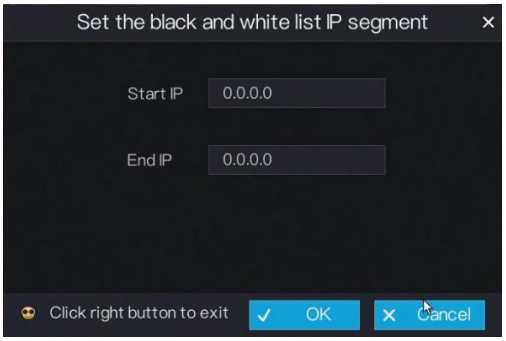


Step 2 Click next to **Blacklist** to enable or disable the function of blacklist. The function is disabled by default.

Step 3 Select a required value from the **rule type** drop-down list.

Step 4 Click **Add**, the set the black and white list IP segment screen is displayed, as show in Figure 6-13.

Figure 6-13 IP Address Segment screen



2. Enter value manually for Start IP address, end IP address.
3. Click **OK**. The system saves the settings. And the black and white list IP segment listed in the black (white) list.

NOTE

- Blacklist: IP address in specified network segment to prohibit access.
- Whitelist: IP address in specified network segment to allow access
- Select a name in the list and click **Delete** to delete the name from the list.
- Select a name in the list and click **Edit** to edit the name in the list.
- Only one rule type is available, and the last rule type set is efficient.

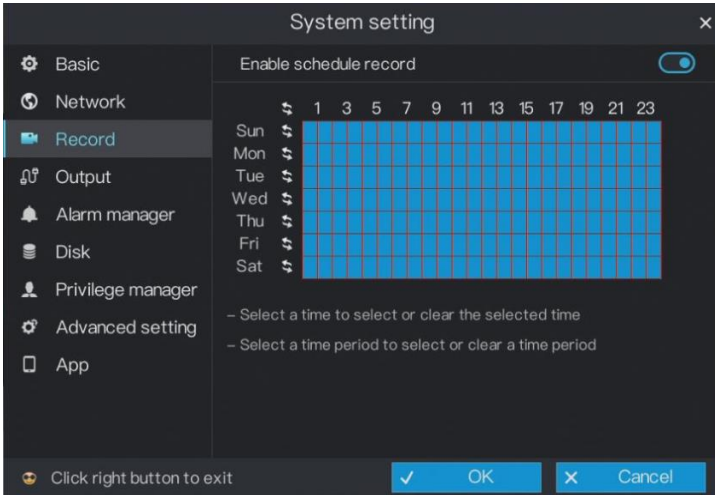
----End

6.3 Record

Operation Steps

Step 1 On the **System setting** screen, choose **Record** to access the record screen, as shown in Figure 6-14.

Figure 6-14 Record setting screen



Step 2 Click next to **Enable schedule record** to enable or disable the function of schedule record. The function is enabled 7*24 recording by default.

Step 3 Set Schedule.

For details, please see *Step 2~Step 5*.

Step 4 Click **OK** to save record settings or click **Cancel** to cancel settings.

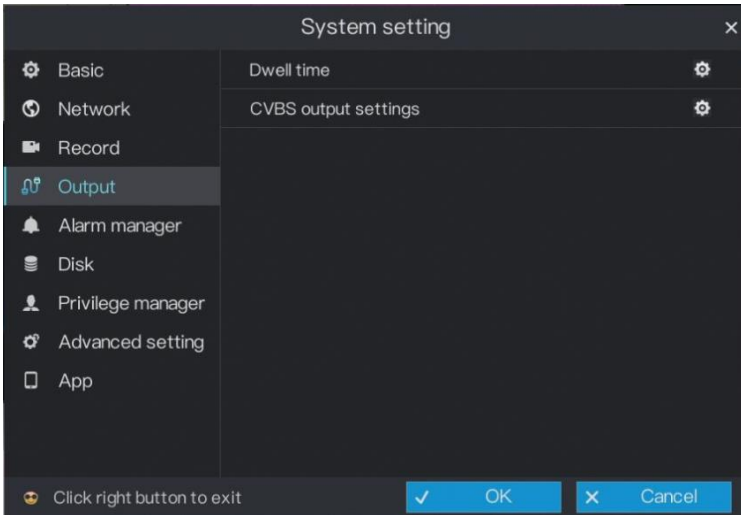
----End

6.4 Output

Operation Steps

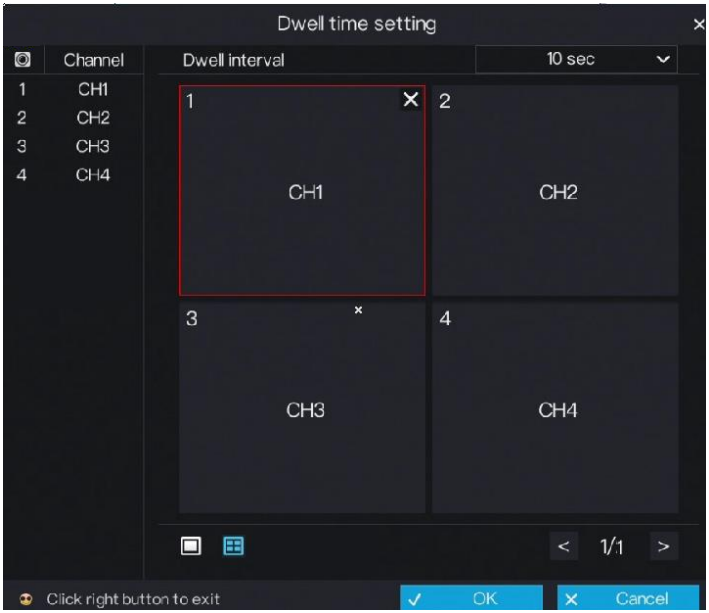
Step 1 On the **System setting** screen, choose **Output** to access the output setting screen, as shown in Figure 6-15.

Figure 6-15 Output setting screen



Step 2 Click next to **Dwell time** to access the dwell time screen, as shown in Figure 6-16.

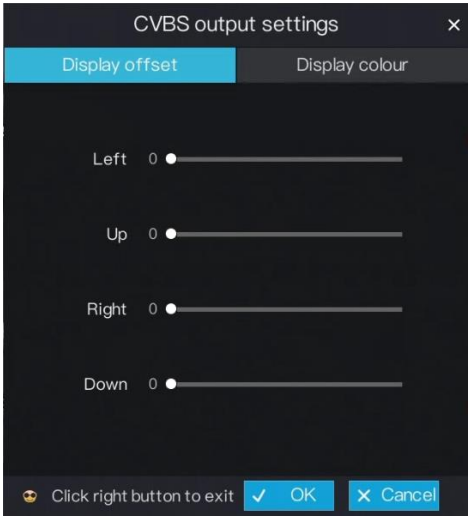
Figure 6-16 Dwell time screen



2. Select a required value from the **Dwell interval** drop-down list.
3. Set layout. Click to choose layout.
4. Select dwell channel. Click the video window and select a channel from the channel list to set the dwell channel.
5. Click OK to save dwell settings or click **Cancel** to cancel settings.

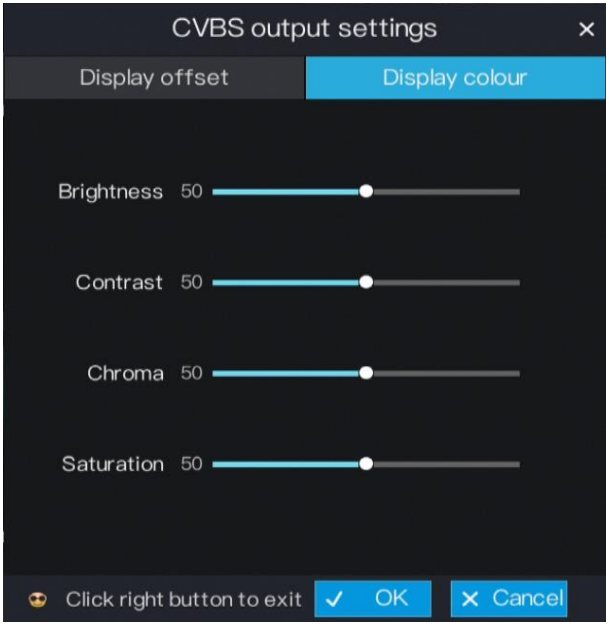
Step 3 Click next to **CVBS output settings** to access CVBS output settings screen, as shown in Figure 6-17.

Figure 6-17 CVBS output settings screen



2. Set the display offset. Press and hold the left mouse button and drag the value bar to set the left, up, right, down display offset of the CVBS monitor.
3. Set the display colour. Click **Display colour** tag to access the display colour screen, as shown in Figure 6-18.

Figure 6-18 Display colour settings screen



4. Press and hold the left mouse button and drag the value bar to set the brightness, contrast, chroma, saturation of the CVBS monitor.
5. Click **OK** to save CVBS output settings or click **Cancel** to cancel settings.

6.5 Alarm Manager

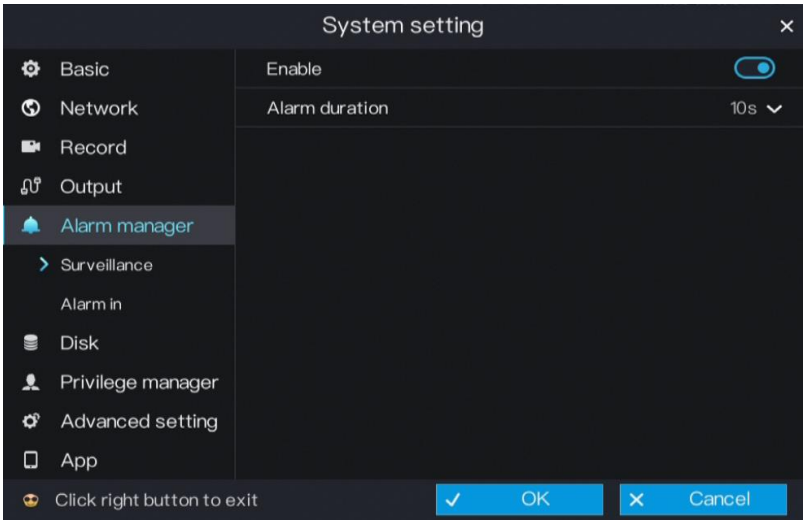
The system allows you to set alarm surveillance and alarm in in **Alarm manager**.

6.5.1 Surveillance

Operation Steps

Step 1 On the System setting screen, choose **Alarm manager** > **Surveillance** to access the surveillance setting screen, as shown in Figure 6-19.

Figure 6-19 Surveillance setting screen



Step 2 Click next to **Enable** to enable the surveillance function.

Step 3 Select **alarm duration** from the drop-down list.

Step 4 Click **OK** to save surveillance settings or click **Cancel** to cancel settings.

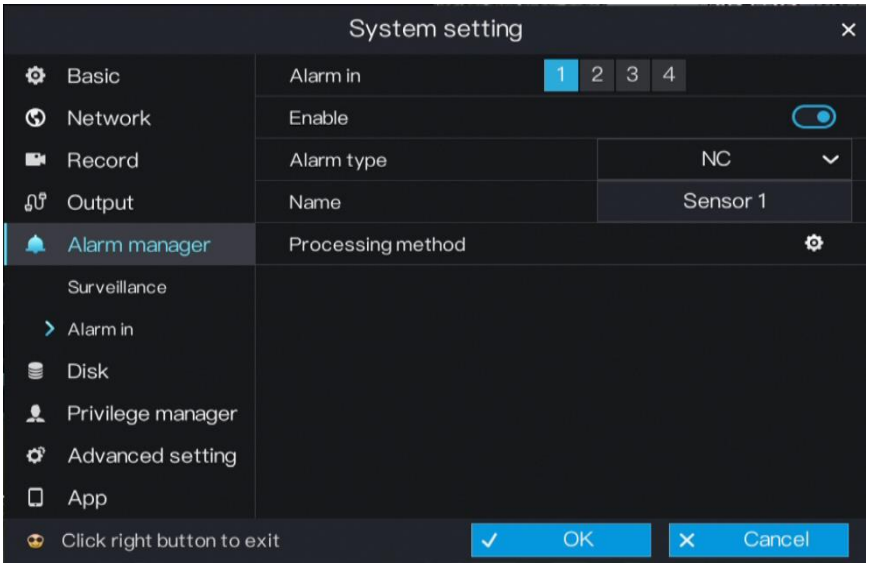
----End

6.5.2 Alarm in

Operation Steps

Step 1 On the System setting screen, choose **Alarm manager** > **Alarm in** to access the alarm in setting screen, as shown in Figure 6-20.

Figure 6-20 Alarm in setting screen



Step 2 Select a channel in **alarm in**.

Step 3 Click next to **Enable** to enable or disable the functions.

Step 4 Select **Alarm type** from the drop-down list.

NOTE

- **NC:** Closed alarm circuit
- **NO:** Opened alarm circuit

Step 5 Set **name**.

Step 6 Set Processing method.

For details, please see *Step 2~Step 5*.

Step 7 Click **OK** to save alarm in settings or click **Cancel** to cancel settings.

----End

6.6 Disk

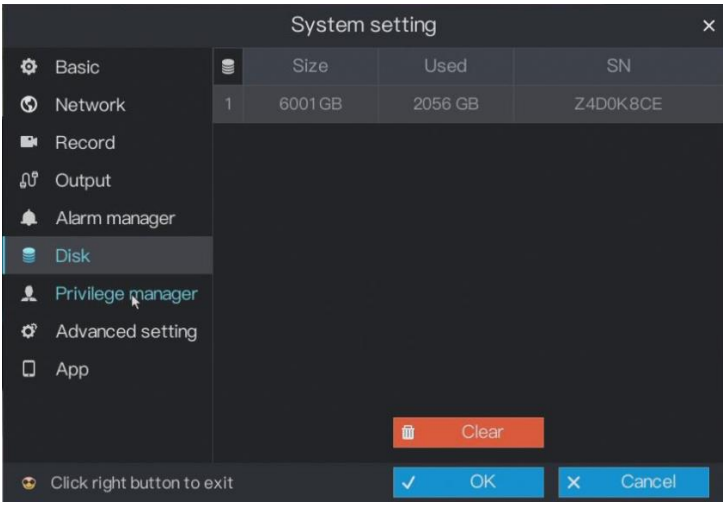
The system allows you to view the total capacity, used capacity, and SNs of disks, and clear all video data in a disk in disk management.

6.6.1 Viewing Disk Information

Operation Steps

Step 1 On the System setting screen, choose **Disk** to access the disk management screen, as shown in Figure 6-21.

Figure 6-21 Disk management screen



Step 2 You can view the total capacity, used capacity, and SN of a disk on the disk management screen.

----End

6.6.2 Clearing Disk Data

Click **Clear** in the lower part of the disk management screen. A message, indicating that all video data will be cleared and asking you whether to continue the operation, is displayed. Click **OK** to delete all video data on the disks.

NOTE

You should clear the disk data when the disk is installed to the DVR for the first time.

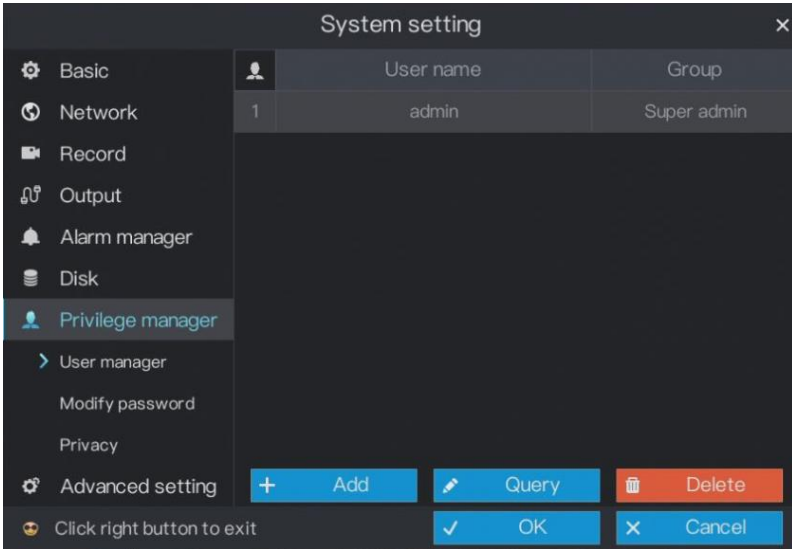
6.7 Privilege manager

6.7.1 User manager

Operation Steps

Step 1 On the System setting screen, choose **Privilege manager** > **User manage**r to access the user management screen, as shown in Figure 6-22.

Figure 6-22 User manager screen



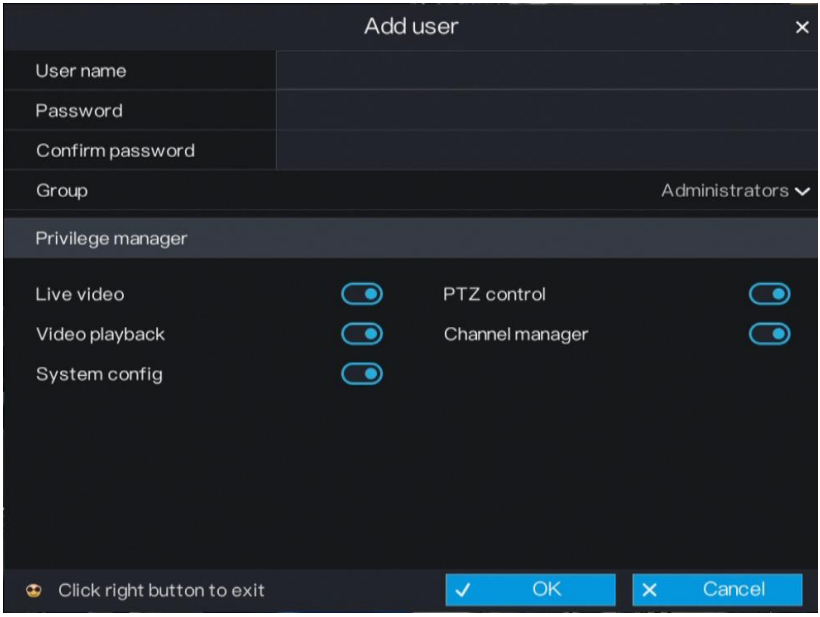
Step 2 Add or delete a user.

- Adding a user

1. Click **Add**.

   The **Add User** dialog box appears, as shown in Figure 6-23.

Figure 6-23 Add user screen



2. Enter a username, password and confirm password.

   NOTE

   - The password should include letter, character and number.
   - The password should be 6~32.

3. Select a **Group** from the drop-down list box.
4. Select the operation privileges in the list of the add user screen.
5. Click **OK**.

   The user is set successfully.

NOTE

- The default user is **Administrator** and cannot be deleted or modified.
- Select a user from user list to edit or delete user.

Step 3 Click **OK** to save user manager settings or click **Cancel** to cancel settings.

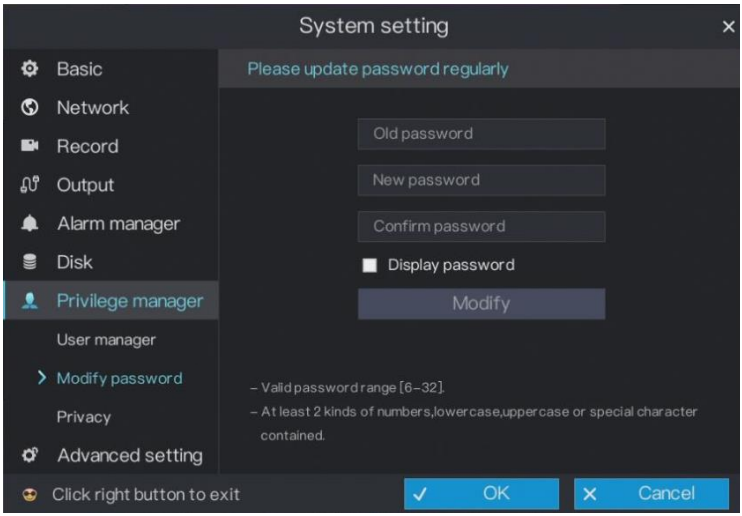
-----End

6.7.2 Modify Password

Operation Steps

Step 1 On the System setting screen, choose **Privilege manager** > **Modify password** to access the modify password screen, as shown in Figure 6-24.

Figure 6-24 Password modification screen



Step 2 Enter the correct old password, new password, and confirm password, and click **Modify**. The password is modified successfully.

NOTE

- The password should include at least two kinds of letter, character and number.
- The password should be 6~32.

Step 3 Click **OK** to save modify password settings or click **Cancel** to cancel settings.

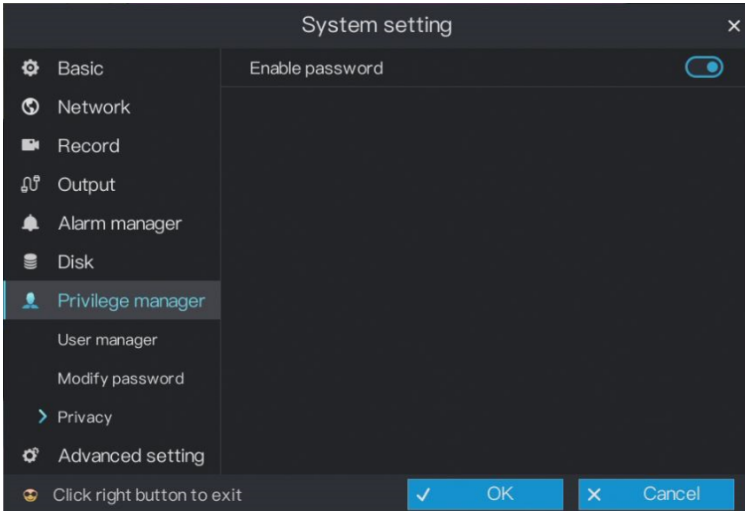
----End

6.8 Privacy

Operation Steps

Step 1 On the System setting screen, choose **Privilege manager** > **privacy** to access the privacy screen, as shown in Figure 6-25.

Figure 6-25 Privacy screen



Step 2 Click next to **Enable password** to enable or disable the function. The function is enabled by default.

Step 3 Click **OK** to save enable password settings or click **Cancel** to cancel settings.

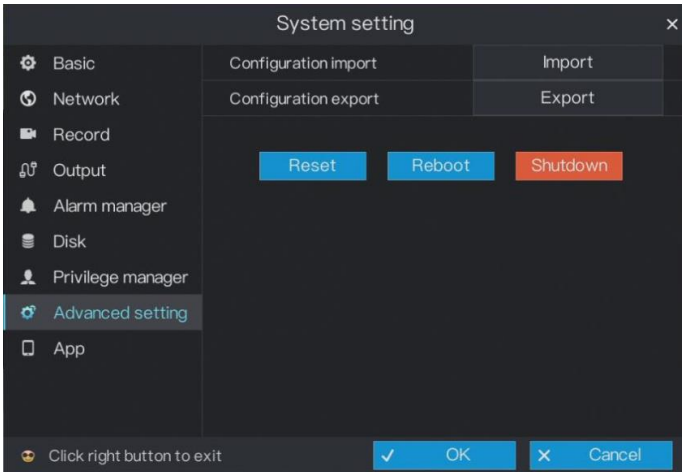
----End

6.9 Advanced setting

Operation Steps

Step 1 On the System setting screen, choose **Advanced setting** to access the advanced setting screen, as shown in Figure 6-26.

Figure 6-26 Advanced setting screen



Step 2 Click **Import** to import the configuration.

Step 3 Click **Export** to export the configuration.

Step 4 Click Reset, Reboot, Shutdown to reset the DVR, reboot the DVR or Shutdown the DVR if you need.

Step 5 Click **OK** to save enable password settings or click **Cancel** to cancel settings.

----End

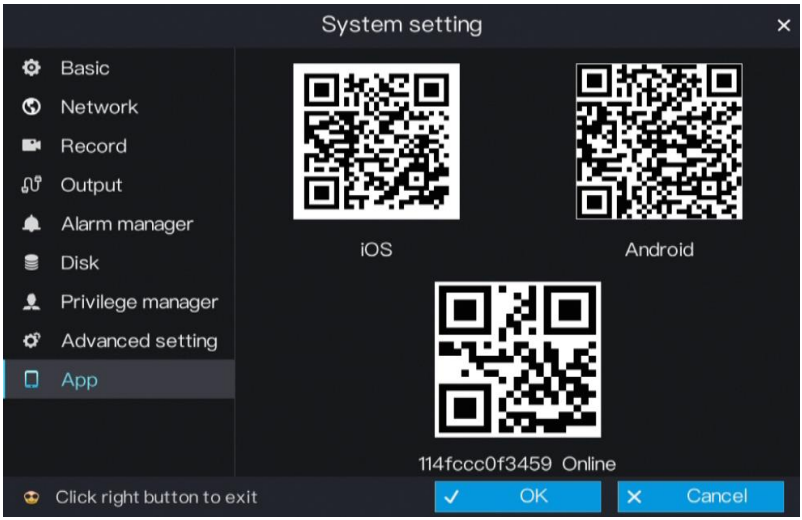
6.10 App

You can use application software that supports QR code scanning to scan the QR code in **App** to download the application for mobile phones. Then, you can perform operations on the DVR by using the App.

Operation Description

On the System setting screen, choose **App** to access the mobile phone App screen, as shown in Figure 6-27.

Figure 6-27 Mobile phone App screen



QR codes are described as follows:

iOS QR code: used by iOS-based devices to download the App client.

Android QR code: used by Android-based devices to download the App client.

UUID QR code: After the mobile phone App is installed, you can scan the UUID QR code to add an DVR.

----End

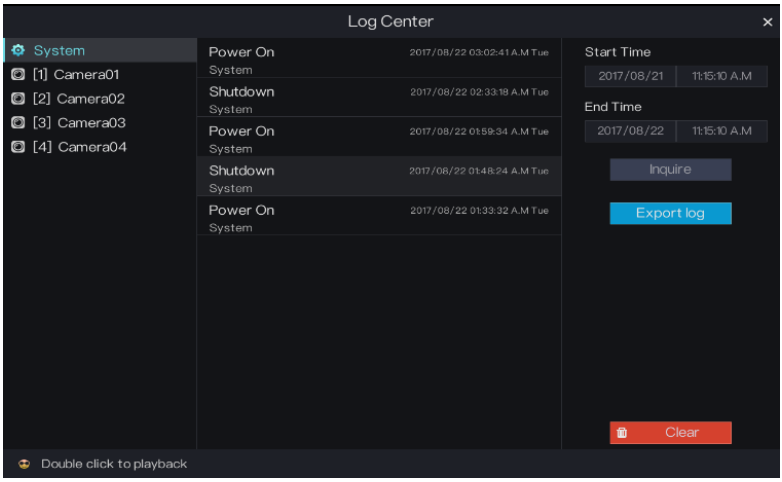
7 Log Center

The system allows you to set and view records of any operations performed on the DVR in **Log Center**, including power-on, parameter settings, and camera management.

Operation Steps

Step 1 Click **Log Center** in the main menu to access the **Log Center** screen, as shown in Figure 7-1.

Figure 7-1 Log Center screen



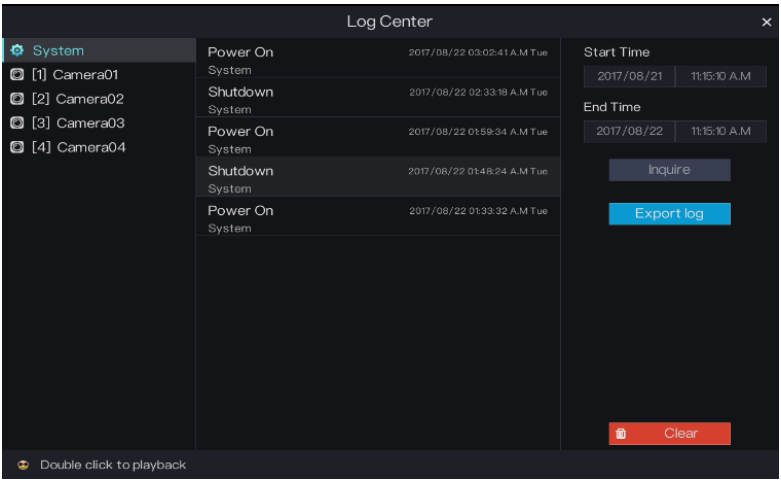
Step 2 Select an object whose logs need to be queried on the left side of the **Log Center** screen. The logs include system logs and logs of a camera in a channel.

Step 3 Set the log start time and end time on the right side of the **Log Center** screen.

Step 4 Click **Inquire** to query logs.

Step 5 Double-click a log to play the video generated at the log time point, as shown in Figure 7-2.

Figure 7-2 Log play screen



Step 6 Click **Export log** to export logs to USB storage..

----End

8 Alarm

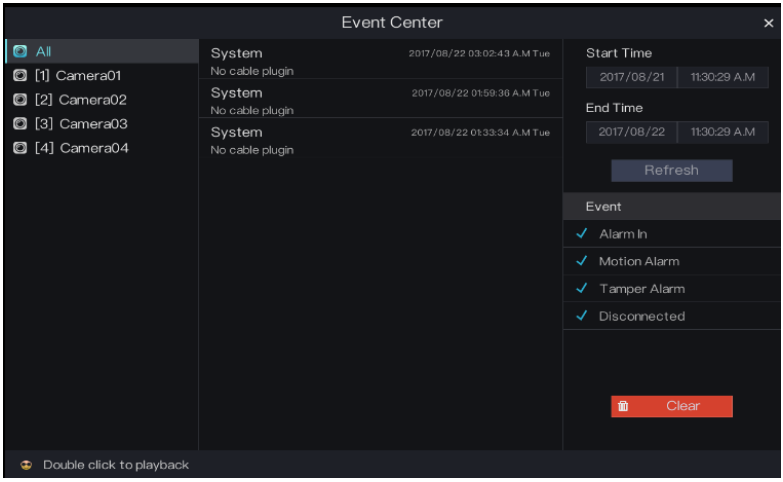
The system allows you to view alarm events, set the timeline, and clear alarms in **Alarm**.

8.1 Event

Operation Steps

Step 1 Click **Alarm** in the main menu to access the **Event Center** screen, as shown in Figure 8-1.

Figure 8-1 Event Center screen



Step 2 Select a camera or all cameras on the left side of the **Event Center** screen.

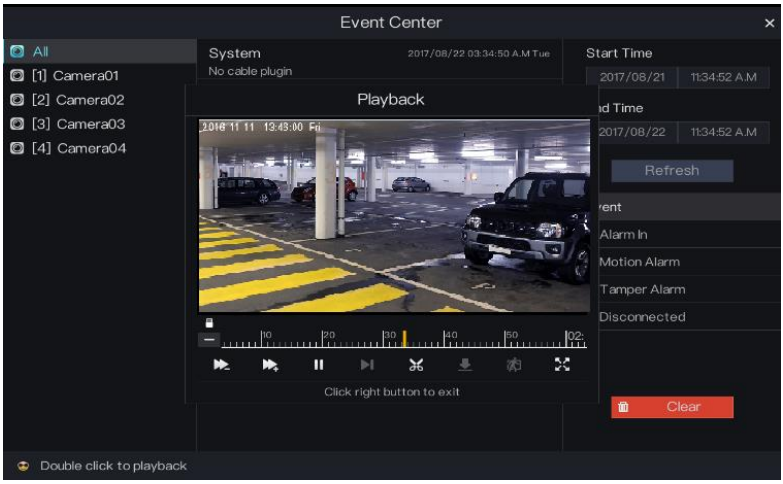
Step 3 Select the event type below **Event** in the lower right part of the **Event Center** screen. All event types are selected by default. You can click one event type to deselect it.

Step 4 Set the alarm start time and end time in the upper right part of the **Event Center** screen.

Step 5 Click **Refresh** to query alarm events.

Step 6 Double-click an alarm event to play the alarm video, as shown in Figure 8-2.

Figure 8-2 Alarm video play screen



----End

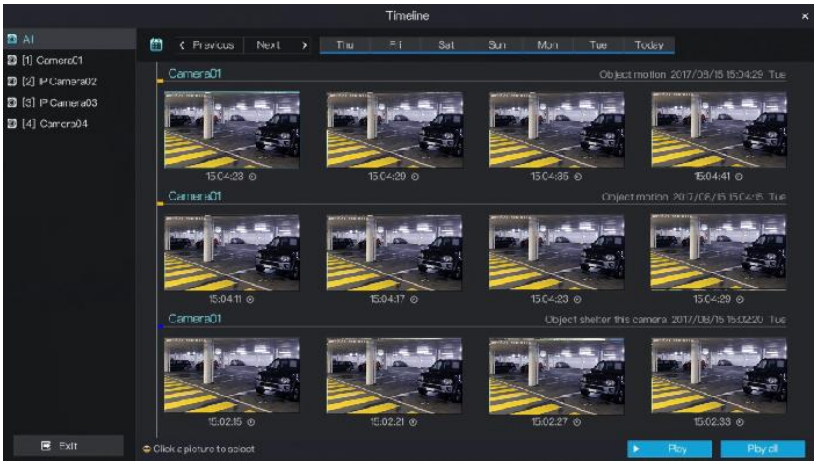
8.2 Timeline

The system allows you to set the timeline to play alarm videos presented by time on each day of a week.

Operation Steps

Step 1 Choose **Alarm** > **Timeline** in the main menu to access the **Timeline** screen, as shown in Figure 8-3.

Figure 8-3 Timeline screen



Step 2 Select the alarm time to view the alarm records on that day.

Step 3 Double-click an alarm picture to play the alarm video.

----End

8.3 Clear alarm

When the buzzer beeps, click **Clear alarm** in the main menu to clear the alarm.

----End

9 Web Access

The DVR is embedded with a web server and supports mainstream browsers such as Internet Explorer, Chrome, Firefox, and Safari. Operations such as quick setup, real-time preview, video playback, alarm search, DVR setup, and camera setup can be performed through the web.

9.1 Login

The default IP address of the DVR is 192.168.0.121 when network interface 1 is used and is 92.168.0.121 when network interface 2 is used. To access the DVR, enter the corresponding IP address in the address bar of your web browser. If the DVR is connected through network interface 1, enter **http://1 92.168.0.121**.

CAUTION

- Before accessing the DVR through the web, ensure that the network connection is correct and smooth.
- Identify the connected network interface and enter the corresponding IP address in the address bar of your browser.

Figure 9-1 shows the web-based login interface of the DVR.

Figure 9-1 Login interface of the DVR

Enter your user name and password to access the main interface.

NOTE

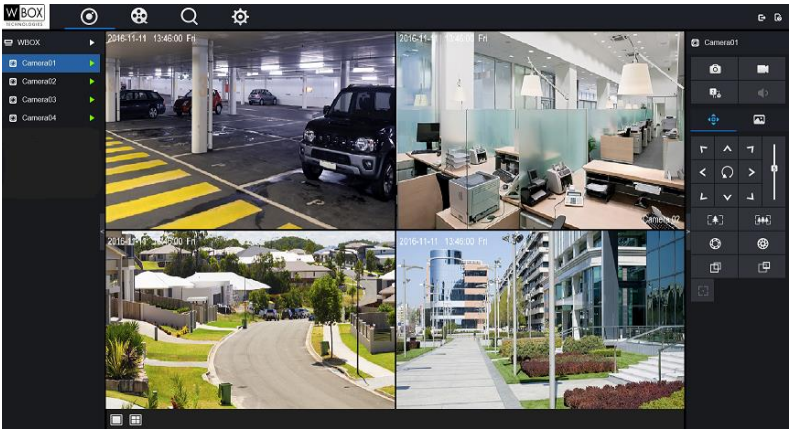
The default user name and password are both **admin**.

9.2 Live Video

On the **Live Video** interface, you can select an online camera in the left **Cameras** pane and view the corresponding live video.

Click **Live Video**. The **Live Video** interface appears, as shown in Figure 9-2.

Figure 9-2 **Live Video** interface



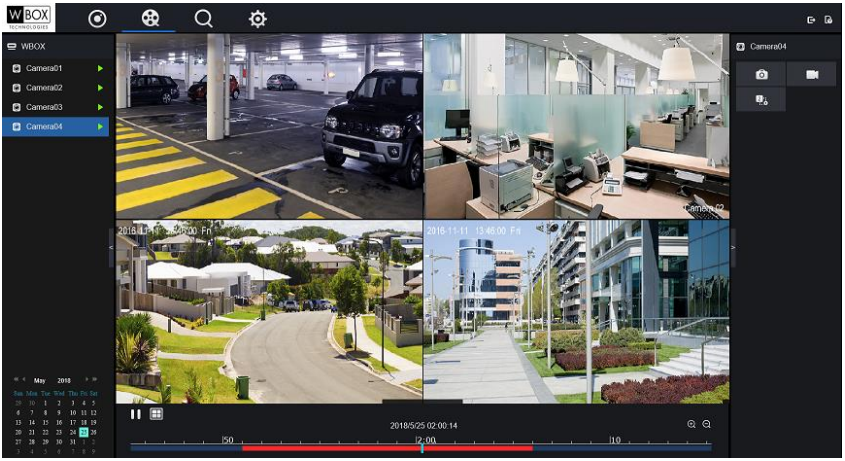
9.3 Video Playback

Video playback refers to playing of videos stored in local hard disks.

Operation Operation Steps

Step 1 Click in the function navigation bar, the video playback interface is displayed, , as shown in Figure 9-3.

Figure 9-3 **Playback** interface



Step 2 Select a camera.

Click a camera in the **device list**. A selected device is marked with . An unselected device is marked with .

Step 3 Select a date.

Current date is displayed automatically. Click and to change the date. 1 indicates that there are videos captured on that day.

Step 4 Display videos.

After a camera and date are selected, video information is displayed below the video pane. The time scale above the file axis shows the different time points of video recording. The time in blue in the middle is the time of the video being played.

The file axis displays videos. Red file axis indicates a video exits, blank file axis indicates no video exits.

Step 5 Play a video.

You can play a video after selecting a device and date. Figure 9-4 shows the control bar of video playback, Table 9-1 describes the operations.

Figure 9-4 Control bar

Table 9-1 Playback button

Buttons	Button description	How to operate
	Pause	Click button to pause to play the video.
	Speed +	Double increasing speed play when you click the button. A maximum of 32X can be configured.
	Normal Speed	Click button to quick return to normal speed.
	Speed -	Double decreasing speed play when you click the button. A minimum of 1/4X can be configured.
	Split screen	Click button to switch the 1 screen and 4 screens.
	Zoom in	Click button to play video in a bigger time scale.
	Zoom out	Click button to play video in a smaller time scale..

----End

9.4 Alarm Search

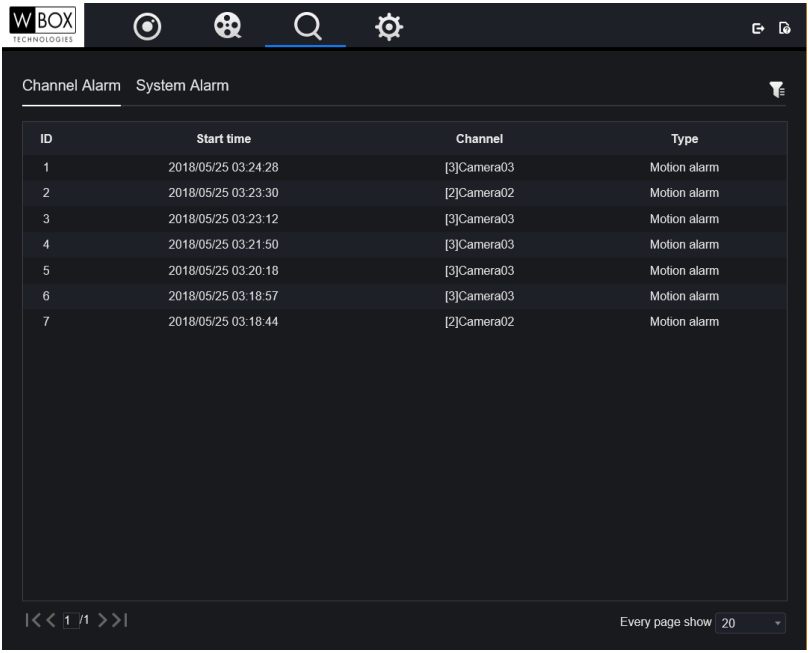
You can retrieval the channel alarm and system alarm in the retrieval interface.

Operation Steps

Step 1 Click **Alarm Search** in the navigation bar at the top of the web interface.

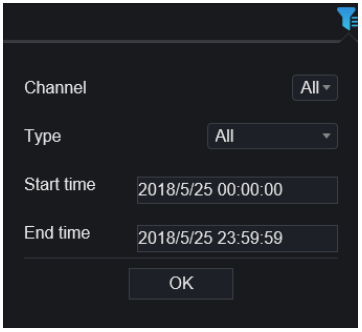
The **Alarm Search** interface appears, as shown in Figure 9-5.

Figure 9-5 **Alarm Search** interface



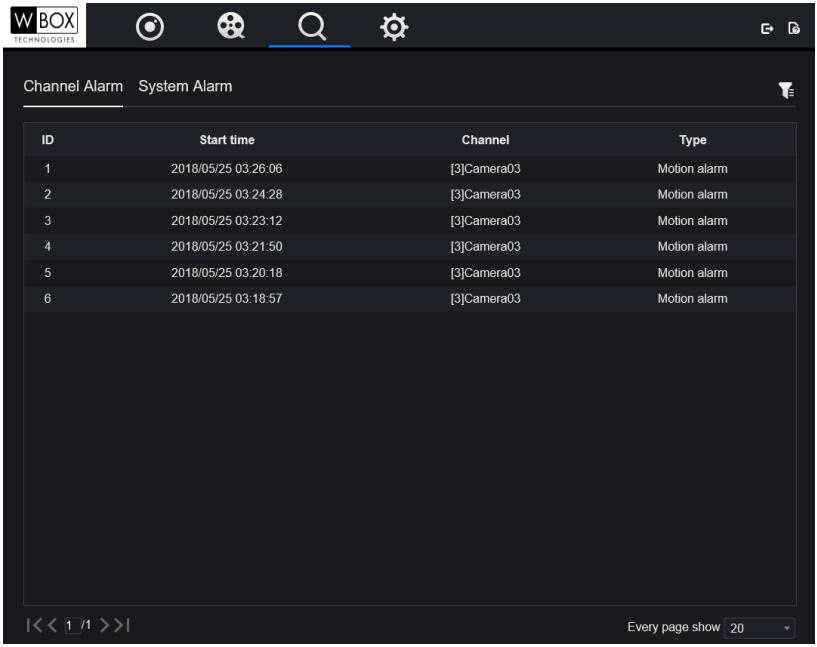
Step 2 Click at the top right conner, set the channel, type,start time and end time, as shown in Figure 9-6

Figure 9-6 Channel alarm

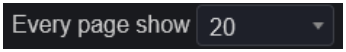


Step 3 Click **OK**, the result will be displayed as shown in Figure 9-7

Figure 9-7 Retrieval result



NOTE

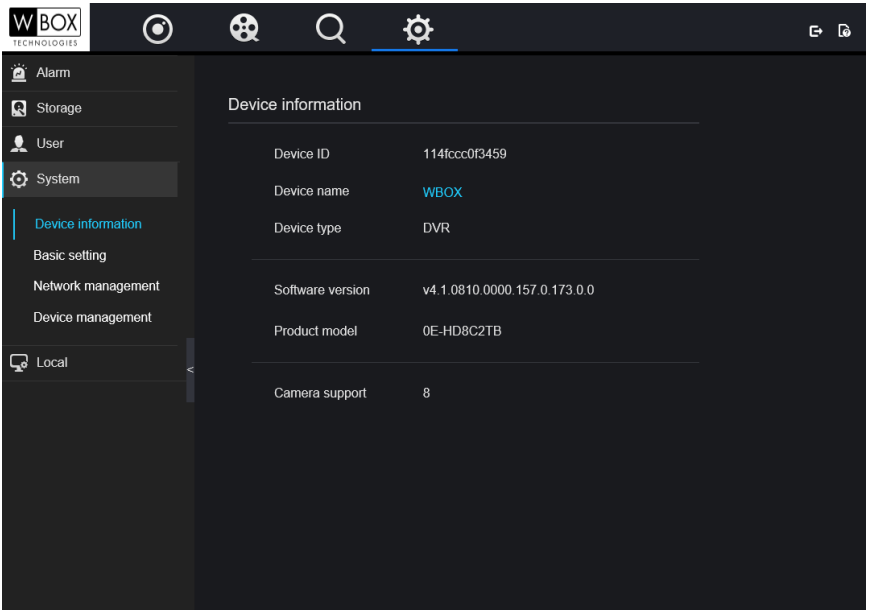
- Click to select the page of alarm list..
-  shows the rows shown in every page..
- The system alarm retrieval is same as channel alarm.

9.5 DVR Setting

Click **DVR Setup** in the navigation bar at the top of the web interface.

The **DVR Setup** interface appears, as shown in Figure 9-8.

Figure 9-8 **DVR Setting** interface



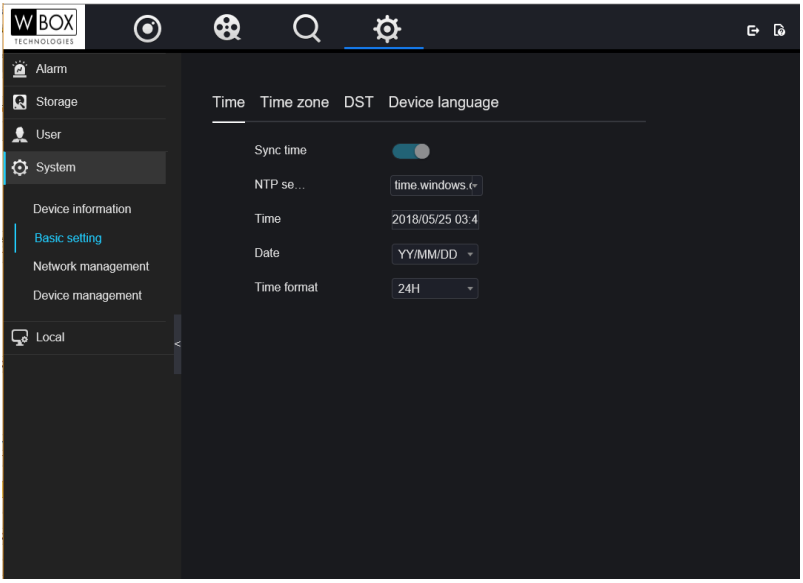
9.5.1 Viewing basic information

You can view time, time zone, DST (Daylight saving time) and device language in basic interface.

Operation Steps

Step 1 On the **System Setting screen**, choose **System > Basic setting** to access the **Basic** interface, as shown in Figure 9-9.

Figure 9-9 **Basic** interface



Step 2 Click **Time**, **Time zone**, **DST**, **Device language** to view these basic information..

----End

9.5.2 Network management

You can set IPv4, port, DDNS, SMTP in network management interface.

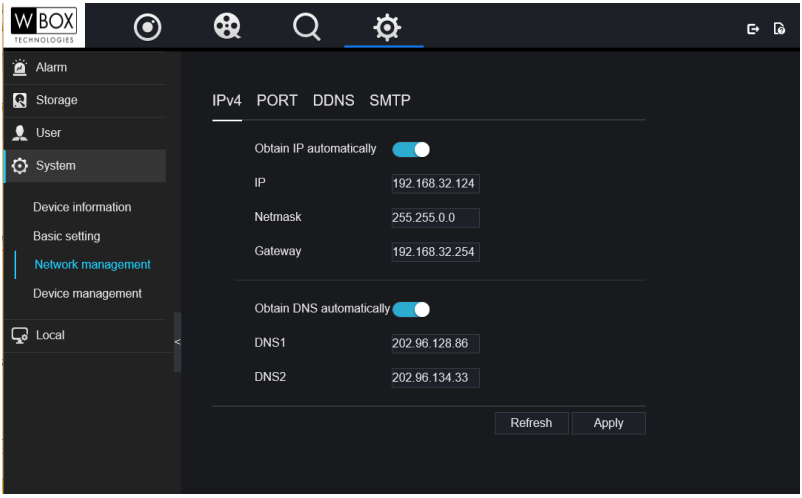
9.5.2.1 IPv4

IPv4 is the IP protocol that uses an address length of 32 bits.

Operation Steps

Step 1 On the **System Setting screen**, choose **System >Network management** to access the **IPv4** interface, as shown in Figure 9-10.

Figure 9-10 **IPv4** interface



Step 2 Click next to **Obtain IP automatically** to enable or disable the function of automatically getting an IP address. The function is enabled by default.

If the function is disabled, click input boxes next to **IP**, **Netmask**, and **Gateway** to set the parameters as required.

Step 3 Click next to **Obtain DNS Automatically** to enable or disable the function of automatically getting a DNS address. The function is enabled by default.

If the function is disabled, click input boxes next to **DNS1** and **DNS2**, delete original addresses, and enter new addresses.

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

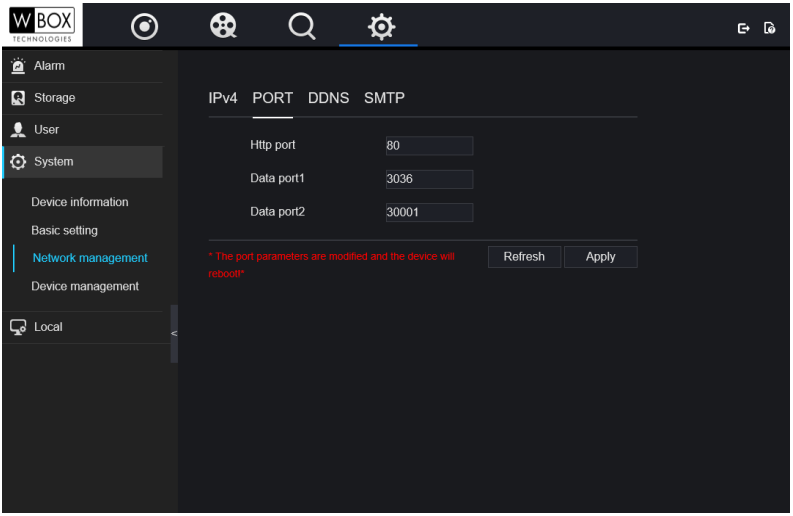
----End

9.5.2.2 Port

Operation Steps

Step 1 Click **PORT** label to enter the port setting interface, as shown in Figure 9-11

Figure 9-11 **Port setting** interface



Step 2 Set HTTP port, Data port1 and Data port2 respectively.

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

NOTE

- Data Port1 used as RTSP port
- Data Port2 used as video control port
- After Ports is set and saved ,please click OK and Reboot. the port is set successfully.

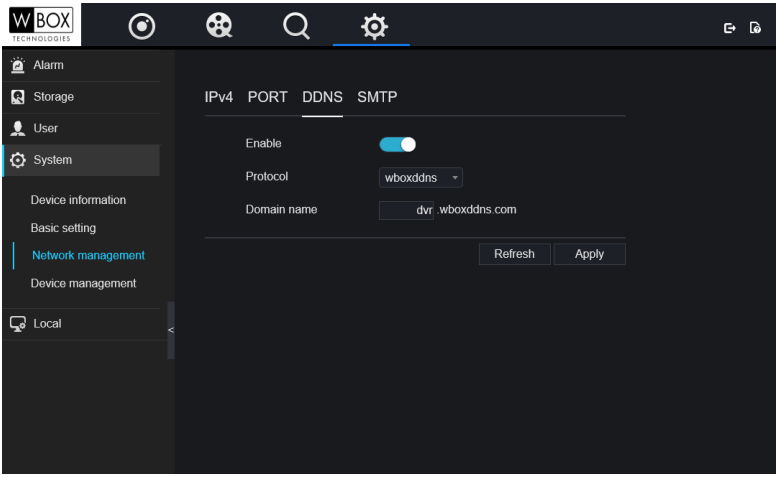
----End

9.5.2.3 DDNS

Operation Steps

Step 1 Click **DDNS** label to enter the DDNS setting interface, as shown in Figure 9-12

Figure 9-12 **DDNS setting** interface



Step 2 Click the button to enable the DDNS function. It is disabled by default.

Step 3 Select a required value from the Protocol drop-down list.

Step 4 Set Domain name, Account, and Password.

Step 5 Click **Apply** to save DDNS network settings.

NOTE

An external network can access an address specified in the DDNS settings to access the DVR.

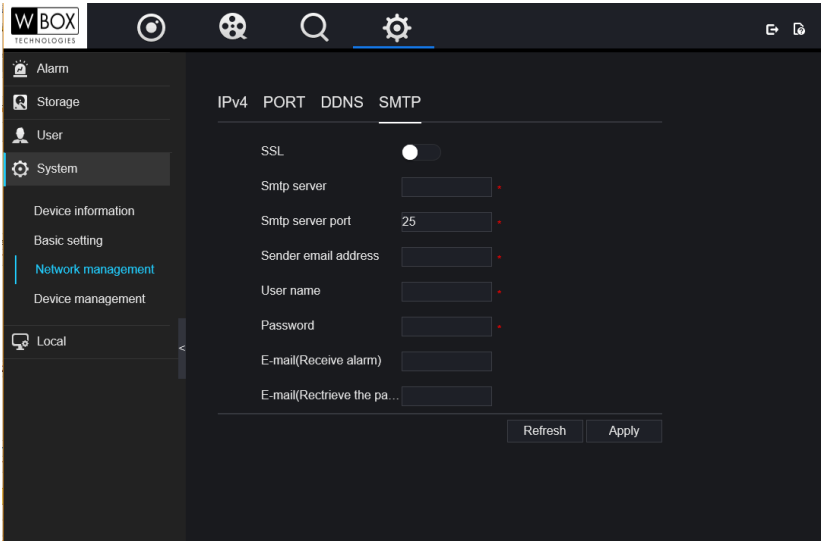
----End

9.5.2.4 SMTP

Operation Steps

Step 1 Click **SMTP** label to enter the SMTP setting interface, as shown in Figure 9-13.

Figure 9-13 SMTP setting interface



Step 2 Click next to **SSL** to enable Secure Sockets Layer(Some SMTP servers are required). It is disabled by default.

Step 3 Set SMTP server and SMTP server port manually.

Step 4 Set sender E-mail, user name and password manually.

Step 5 Set E-mail for receive alarm. the message.

Step 6 Set E-mail for retrieve the password. the message .

Step 7 Click **Apply** to save settings.

9.5.3 Device management

You can reboot, upgrade and reset the NVR in device management interface.

On the **System Setting screen**, choose **System > Device management** to access the **Device management** interface, as shown in Figure 9-14. Table 9-2describes the operations.

Figure 9-14 Device management interface

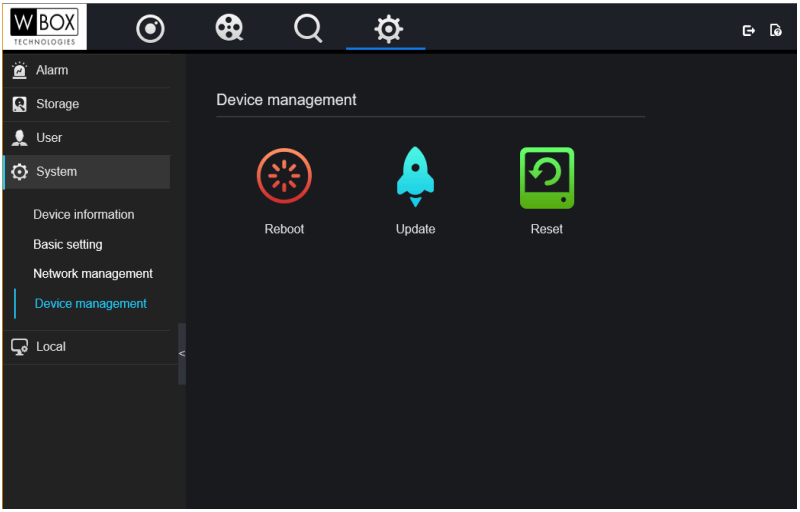


Table 9-2 Device management operations

Buttons	Button description	How to operate
	Reboot	(1) Click , the message “Are you sure to restart?” is displayed. (2) Click **OK** and the NVR reboot.
	Upgrade	(1) Click and select an upgrade package. (2) The message “Upgrade success! The device is rebooting， please login later!” is displayed. (3) NVR reboot and enter to login interface.

Buttons	Button description	How to operate
	Reset	(1) Click , the message “Are you sure to restore?” is displayed. (2) Click **OK**, the message “Apply success! The device is rebooting, please login later!” is displayed. (3) NVR reboot and enter to login interface.
	Close	(1) Click , the message “Confirm closed?” is displayed. (2) Click **OK**, the message “The device has been closed !” is displayed. (3) NVR is closed.

----End

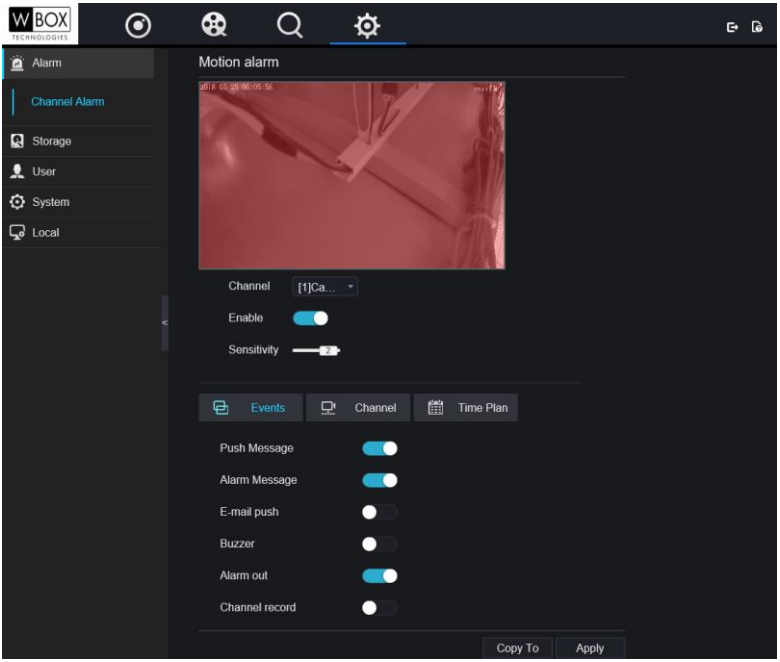
9.6 Alarm

You can set motion alarm in alarm interface.

Operation Steps

Step 1 On the **System Setting screen**, choose **Alarm >Channel Alarm** to access the **motion alarm** interface, as shown in Figure 9-15.

Figure 9-15 **Motion Alarm** interface



Step 2 Select a channel from the drop-down list.

Step 3 Click to enable channel alarm . It is disabled by default.

Step 4 Drag the slider to set the sensitivity.

Step 5 Set the alarm events.

1. Click Event in channel alarm interface.
2. Click the button of alarm events to enable or disable the events. The alarm events include push message, alarm message, E-mail push, buzzer, alarm out and channel record.
3. Click Apply to save the setting or Click Copy to and select one or more channels to copy the settings to the selected channels.

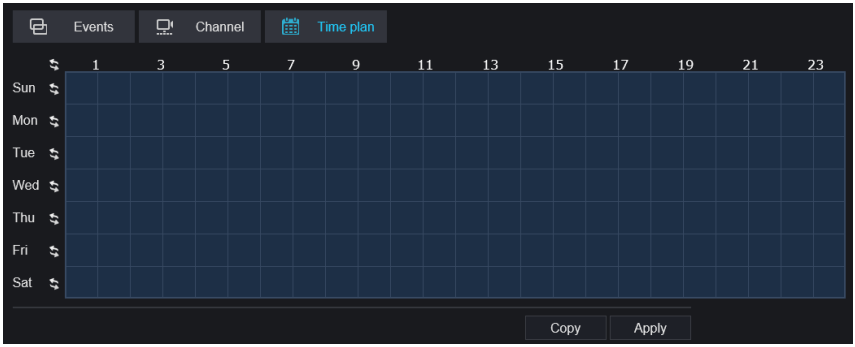
Step 6 Set linkage channel.

1. Click Channel in channel alarm interface.
2. Select one or more channels to set the linkage with current channel.
3. Click Apply to save the setting or Click Copy to and select one or more channels to copy the settings to the selected channels.

Step 7 Set time plan.

1. Click **Time plan** in channel alarm interface, the time plan interface is display, as shown in Figure 9-16

Figure 9-16 Time plan interface



2. Set the time plan.

Method 1：Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday.

Method 2：Hold down the left mouse button, drag and release mouse to select the schedule within 0:00-24:00 from Monday to Sunday.

NOTE

When you **select** time by dragging the cursor, the cursor cannot be moved out of the time area. Otherwise, no time can be selected.

Method 3：Click in the schedule page to select the whole day or whole week.

Deleting deployment time: Click again or inverse selection to delete the selected schedule.

Step 8 Click **Apply** to save the setting or Click **Copy to** and select one or more channels to copy the settings to the selected channels.

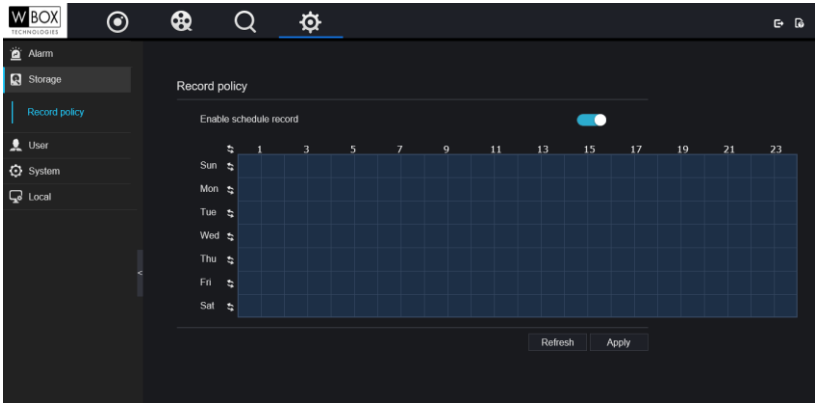
9.7 Storage

You can configure record policy in storage interface.

Operation Steps

Step 1 On the **System Setting screen**, choose **Storage > Record policy** to access the **Record policy** interface, as shown in Figure 9-17.

Figure 9-17 Record policy interface



Step 2 Click to enable schedule record. It is enabled by default.

Step 3 Set the record policy.

Please refer to 9.6 Step 7 Set time plan.

Step 4 Click **Apply** to save the setting.

----End

9.8 User

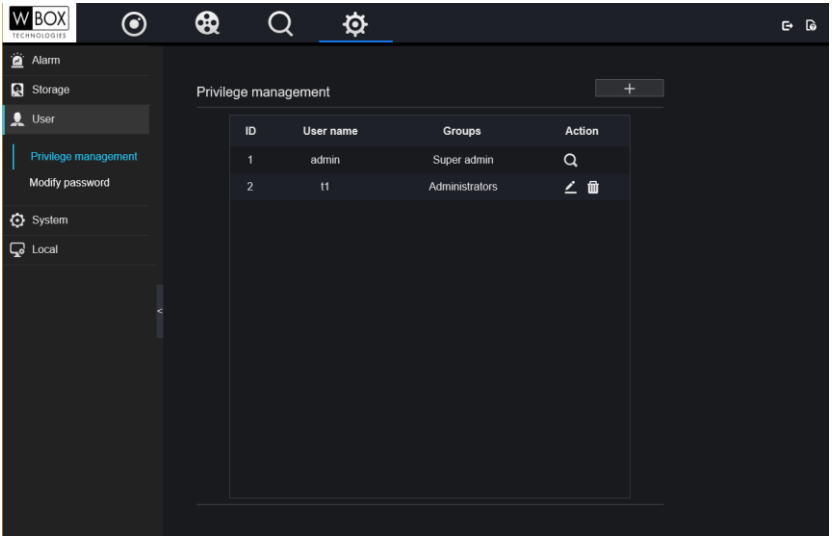
You can add, modify, and delete a user and privilege in user manager interface.

9.8.1 Privilege management

Operation Steps

Step 1 On the **System Setting screen**, choose **User > Privilege management** to access the **Privilege management** interface, as shown in Figure 9-18

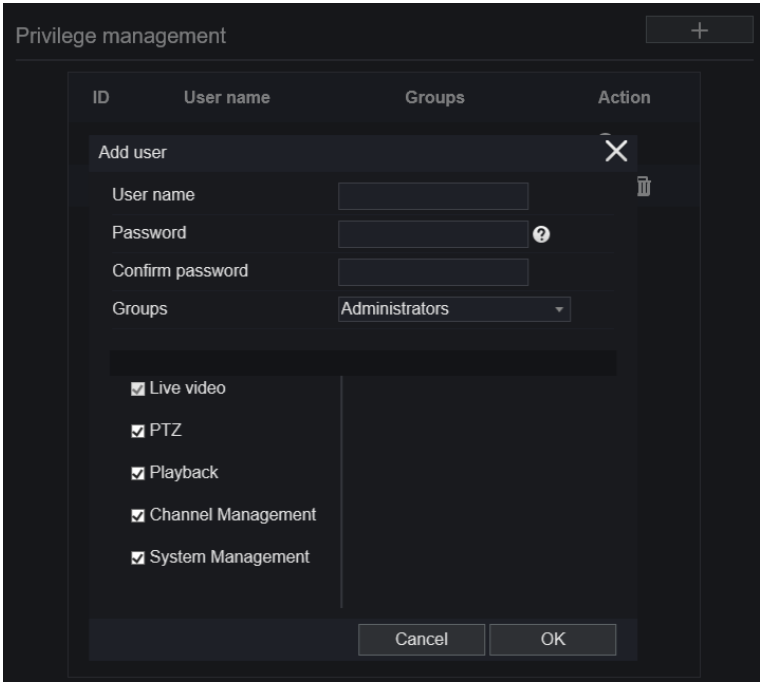
Figure 9-18 Privilege management interface



Step 2 Add a user.

1. Click in privilege management interface to access the add user interface, as shown in Figure 9-19

Figure 9-19 Add user interface



2. Set the user name, password, and confirm password.
3. Select a group from the drop-down list.
4. Check the privilege.
5. Click OK to save the setting or Click cancel to cancel the setting.

NOTE

- Click to view the privilege of super administrator.
- Click to modify the user and privilege of operator and media user in the user list..
- Click to delete the user in the user list.

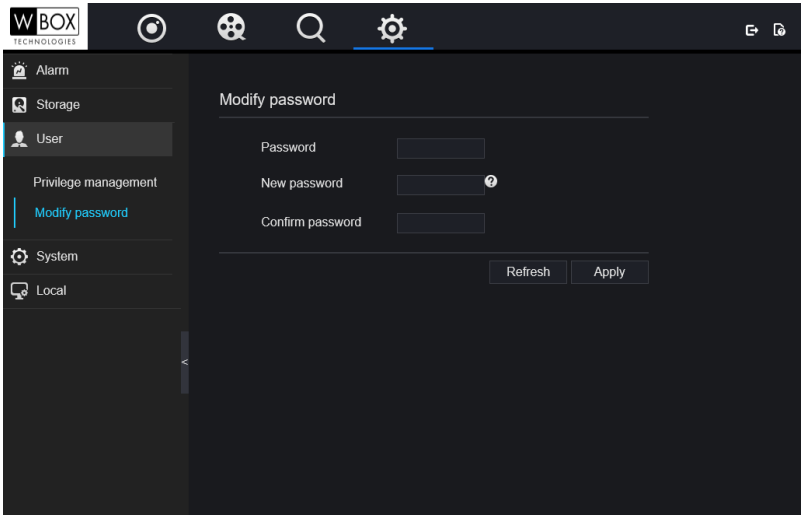
----End

9.8.2 Modify password

Operation Steps

Step 1 On the **System Setting screen**, choose **User > Modify password** to access the **Modify password** interface, as shown in Figure 9-20.

Figure 9-20 Modify password interface



Step 2 Enter the old password, and set the new password and confirm password.

Step 3 Click **Apply**, the password is modified successfully, the system return to the login interface.

----End

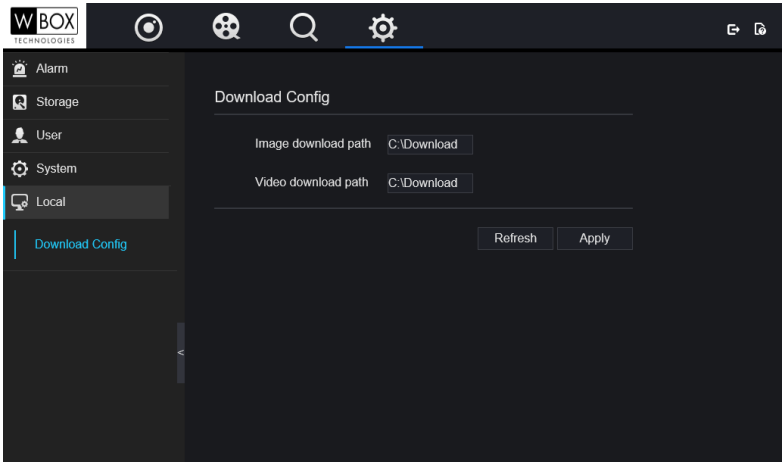
9.8.3 Local

You can set the image download path for snapshot and the record download path for record files in the download configuration interface.

Operation Steps

Step 1 On the **System Setting screen**, choose **Local > Download Config** to access the **Download configuration** interface, as shown in Figure 9-21.

Figure 9-21 Download configuration interface



Step 2 Enter the image download path.

Step 3 Enter the record download path.

Step 4 Click **Apply** to save the setting.

-----End

10 FAQ

1. Why is the DVR self-test screen frozen?

Use the methods below to fix the problem:

Method 1: Check whether the DVR is equipped with a hard disk.

Method 2: Check whether the DVR is equipped with an unformatted hard disk.

Method 3: Check whether the hard disk is damaged.

If a hard disk is not required, Click **continue** in the lower right corner of the screen to resume the startup process.

2. Why does the screen display incomplete information or is skewed?

Use the following methods below to fix the problem:

Method 1: Use the automatic adjustment function of the monitor.

Method 2: Click **Adjust** on the login screen. The **Monitor Setup** screen is displayed. For operation details, see chapter 4 "Operation Instruction" of the *Network Video Recorder (DVR) User Guide*.

3. Why no image is displayed on the monitor?

Use the following methods below to fix the problem:

Method 1: Check the power supply of the monitor.

Method 2: Check whether the monitor is connected to the DVR correctly.

Method 3: Restart the DVR.

Method 4: Check whether the monitor supports the default resolution (1024×768) of the DVR.