



16 Channel Sibell Recorder 1U

QDVR-SBE16M



MOBILE APPS

FREE MOBILE APPS
FOR ANDRIOD AND IOS



FREE TECH SUPPORT

FAST SERVICE SUPPORT

Notes

- Please read this user manual carefully to ensure that you can use the device correctly and safely.
- There may be several technically incorrect places or printing errors in this manual. The updates will be added into the new version of this manual. The contents of this manual are subject to change without notice.
- This device should be operated only from the type of power source indicated on the marking label. The voltage of the power must be verified before using the same. Kindly remove the cables from the power source if the device is not to be used for a long period of time.
- Do not install this device near any heat sources such as radiators, heat registers, stoves or other devices that produce heat.
- Do not install this device near water. Clean only with a dry cloth.
- Do not block any ventilation openings and ensure proper ventilation around the machine.
- Do not power off the device at normal recording condition.
- This machine is for indoor use only. Do not expose the machine in rain or moist environment. In case any solid or liquid get inside the machine's case, please turn off the device immediately and get it checked by a qualified technician.
- Do not try to repair the device by yourself without technical aid or approval.
- When this product is in use, the relevant contents of Microsoft, Apple and Google will be involved in. The pictures and screenshots in this manual are only used to explain the usage of our product. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google shall belong to the above-mentioned companies.
- This manual is suitable for many models. All examples and pictures used in the manual are from one of the models for reference purpose.

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1 Introduction

1.1 Summary

Based on the most advanced SOC technology and embedded system in the field, this series of the DVR adopt the new designed human interface and support the smart management of analog cameras and IP cameras and the record search of slice. This series of the DVR which are powerful and easy to use are provided with excellent image quality and stable system. They are centralized monitoring management products with high performance and high quality specially designed for video monitoring field.

This series of the DVR can be widely used to security system of banks at home and abroad, schools, intelligent mansions, traffic, environmental protection, supermarkets, petrol service stations, residential quarters and factories and so on.

1.2 Features

Basic Functions

- Support local device and network device access including IP camera/dome and the third party IP cameras
- Support standard ONVIF protocol
- Support dual stream recording of each camera (IP max 3MP, HD max 2MP)
- Support IP cameras to be added quickly or manually
- Support batch or single configuration of the cameras' OSD, video parameters, mask, motion and so on
- Support a maximum of 8 user permission groups including Administrator, Advanced and Ordinary which are the default permission groups of the system
- Support a maximum of 16 users to be created, multiple web clients login by using one username at the same time and the user's permission control to be enabled or disabled
- Support a maximum of 10 web clients login at the same time

Live Preview

- Support 2560×1440/1920×1080/1280×1024 HDMI and 1920×1080/1280×1024 VGA high definition synchronous display
- Support multi-screen modes
- Support auto adjustment of the camera's image display proportion
- Support audio monitoring of the camera to be enabled or disabled
- Support manual snap of the preview camera
- Support the sequence of the preview cameras to be adjusted
- Support display mode to be added and saved and the saved modes can be called directly
- Support quick tool bar operation of the preview window
- Support scheme view in sequence, quick sequence view and dwell time setting
- Support motion detection and video mask
- Support multiple popular P.T.Z. control protocol and setup of the preset and cruise
- Support direct mouse control of the dome including rotating, zoom, focusing and so on

- Support single camera image to be zoomed by sliding the scroll wheel of the mouse
- Support any area of the image to be zoomed in to a maximum of 16 times of the current size
- Support image and lens adjustment (only available for some cameras)
- Support quick camera adding in the camera window of the live preview interface
- The live camera sequence of the web client will keep consistent with that of the DVR after adjusting the live camera sequence of the DVR, but the live camera sequence of the DVR will not be changed if that of the web client is changed

Disk Management

- The DVRs with the 2U case can add a maximum of 8 SATA HDDs; a maximum of 4 SATA HDDs with the 1.5U case, a maximum of 2 SATA HDDs with the 1U case and a maximum of 1 SATA HDD with the small 1U case
- Each SATA interface of the DVR supports the HDDs with max 6TB storage capacity
- Support disk group configuration and management and each camera can be added into different disk groups with different storage capacity
- Support disk information and disk working status viewing
- Support batch formatting of the disks

Record Configuration

- Support main stream and sub stream recording at the same time and batch or single configuration of the record stream
- Support manual and auto record modes
- Support schedule recording, sensor alarm recording and motion detection recording
- Support schedule recording and event recording setting with different record streams
- Support record schedule setting and recycle recording
- Support pre recording and delay recording configuration of the event recording

Record Playback

- Support time scale operation in quick playback and the playback date and time can be set randomly by scrolling the mouse; the time interval of the time scale can be zoomed
- Support record searching by time slice/time/event/tag
- Support time view and camera view in searching by time slice mode
- Support time slice searching by month, by day, by hour and by minute and time slice to be displayed with camera thumbnail
- Support event searching by manual/motion/sensor events
- Support tag searching by the manual added tags
- Support instant playback of the selected camera in the live preview interface
- Support acceleration(maximum 32 times of the normal speed), deceleration (minimum 1/32 times of the normal speed) and 30s' addition or reduction to current playing time

Record Backup

- Support record to be backed up through USB (U disk, mobile HDD) interface
- Support record to be backed up by time/event/image searching
- Support record cutting for backing up when playing back

- Support a maximum of 10 backup tasks in background and backup status viewing

Alarm Management

- Support alarm schedule setting
- Support enabling or disabling of the motion detection, external sensor alarm input and exception alarms including IP address conflict alarm, disk IO error alarm, disk full alarm, no disk alarm, illegal access alarm, network disconnection alarm, IPC offline alarm and so on, alarm trigger configuration supportable
- Support IPC offline alarm trigger configuration of PTZ, snap, pop-up video, etc.
- Support event notification modes of alarm-out, pop-up video, pop-up message box, buzzer, e-mail and so on
- The snapped images can be attached into the e-mail when alarm linkage is triggered
- Support alarm status view of alarm-in, alarm-out, motion detection and exception alarm
- Support alarm to be triggered and cleared manually
- Support system auto reboot when exception happens

Network Functions

- Support TCP/IP and PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP protocol and so on
- Support allow and block list function and the allow and block IP address/IP segment/MAC address can be set
- Support multiple browsers including IE8/9/10/11, Firefox, Opera, Chrome (available only for the versions lower than 45) and Safari in MAC system
- Support remote achievement, configuration, import and export of the DVR parameters and other system maintenance operations including remote upgrading and system restart
- Support remote camera configuration of the DVR including video parameters, image quality and so on
- Support remote searching, playback and backup of the DVR
- Support manual alarm to be triggered and cleared remotely
- The auto-focusing camera can be adjusted through web client (support zoom in/out, but one key focus is not currently supported)
- Support NVMS or other platform management software to access the DVR and manage it
- Support NAT function and QRCode scanning by mobile phone and PAD
- Support mobile surveillance by phones or PADs with iOS or Android OS
- Support DVR to be accessed remotely through telnet and the telnet function can be enabled or disabled
- If one camera recording is enabled or disabled manually through web client, it will be simultaneously enabled or disabled in the DVR

Other Functions

- The DVR can be controlled and operated by the buttons on the front panel, the remote controller and the mouse
- Setting interfaces can be switched to one another conveniently by clicking the main menus on the top of the setting interfaces
- Support DVR information viewing including basic, camera status, alarm status, record status, network status, disk and backup status

- Support factory restoring, import and export of the system configuration, log view and export and local upgrading by USB mobile device
- Support auto recognition of the display's resolution
- You can click the right mouse button at any interface to go back to the upper interface
- You can click the middle mouse button at any interface to go to the live view interface
- The display language and video format of the DVR will not be changed and the system logs will be reserved if you reset the DVR to factory default
- Press and hold the right mouse button for 5 seconds in any interface to switch the output to VGA and the DVR will display the video at the lowest resolution which the DVR supports

1.3 Front Panel Descriptions

The following descriptions are for reference only.

Type I:

Name	Descriptions
REC	When recording, the light is blue
Net	When access to network , the light is blue
Power	Power indicator, when connection , the light is blue
Fn	No function temporarily

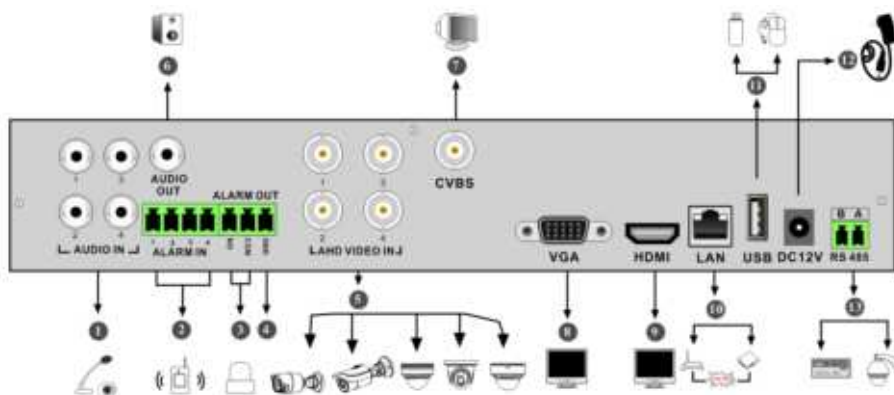
Type II:

Name	Descriptions
Power	Power Indicator, when connected, the light is blue
HDD	The light turns blue when reading/writing HDD
Net	The light turns blue when it is able to access the network
Backup	The light turns blue when backing up files and data
Play	The light turns blue when playing video
REC	Power Indicator, when connected, the light is blue
AUDIO +/-	1. Adjust audio 2. Increase the value in setup
P.T.Z / -	1. Enter PTZ mode 2. Decrease the value in setup
MENU	Enter Menu in live
INFO	Check the information of the device
BACKUP	Enter backup mode in live
SEARCH	Enter search mode in live
Exit	Exit the current interface
	Manually record
	Play/Pause
	Speed down
	Speed up
1-9	Input digital number and select camera
0/--	Input number 0, the number above 10
Direction Key	Change direction

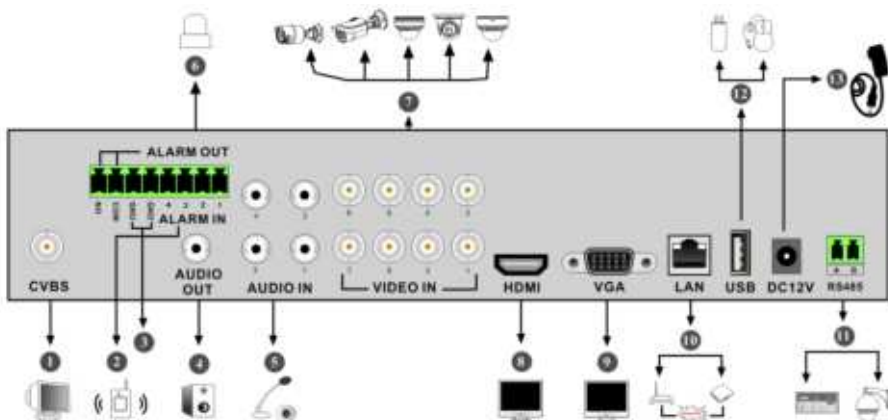
Name	Descriptions
Multi-Screen Switch	Change the screen mode
Enter	Confirm selection
USB	To connect external USB device like USB mouse or USB flash

1.4 Rear Panel Descriptions

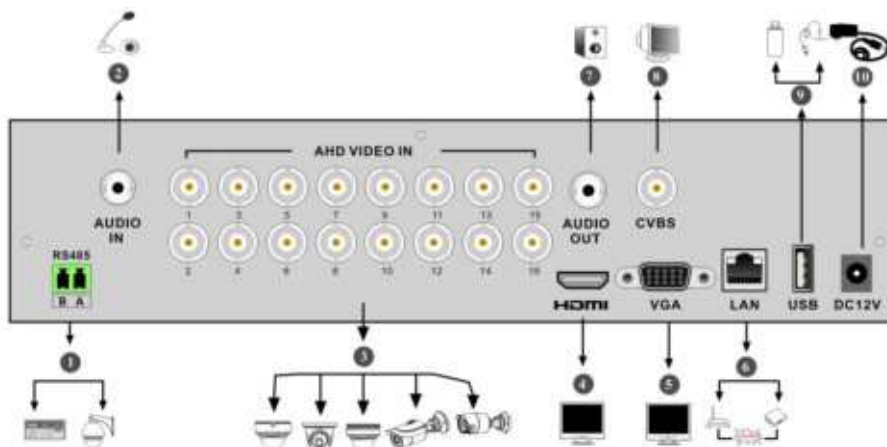
Here we only take a part of real panels for example to introduce their interfaces and connections. The interfaces and locations of the interfaces are only for references. Please take the real object as the standard.



No.	Name	Descriptions
1	AUDIO IN	Audio input; connect to audio input device, like microphone, pickup, etc
2	ALARM IN	Alarm inputs for connecting sensors
3	ALARM OUT	Relay output; connect to external alarm
4	GND	Grounding
5	AHD VIDEO IN	4 CH AHD video inputs
6	AUDIO OUT	Audio output; connect to sound box
7	CVBS	CVBS video output; connect to monitor
8	VGA	Connect to monitor
9	HDMI	Connect to high definition display device
10	LAN	Network port
11	USB	Connect USB storage device or USB mouse
12	DC12V	DC12V power input
13	RS485	Connect to keyboard or speed dome. A is TX+; B is TX-



No.	Name	Descriptions
1	CVBS	CVBS video output; connect to monitor
2	ALARM IN	Alarm inputs for connecting sensors
3	GND	Grounding
4	AUDIO OUT	Audio output; connect to sound box
5	AUDIO IN	Audio input; connect to audio input device, like microphone, pickup, etc
6	ALARM OUT	Relay output; connect to external alarm
7	VIDEO IN	8 CH video inputs
8	HDMI	Connect to high definition display device
9	VGA	Connect to monitor
10	LAN	Network port
11	RS485	Connect to keyboard or speed dome. A is TX+; B is TX-
12	USB	Connect USB storage device or USB mouse
13	DC12V	DC12V power input



No.	Name	Descriptions
1	RS485	Connect to keyboard or speed dome. A is TX+; B is TX-
2	AUDIO IN	Audio input; connect to audio input device, like microphone, pickup, etc
3	AHD VIDEO IN	16 CH AHD video inputs
4	HDMI	Connect to high definition display device
5	VGA	Connect to monitor
6	LAN	Network port
7	AUDIO OUT	Audio output; connect to sound box
8	CVBS	CVBS video output; connect to monitor
9	USB	Connect USB storage device or USB mouse
10	DC12V	DC12V power input

1.5 Connections

● Video Connections

Video Output: Supports VGA/HDMI video output. You can connect to monitor through these video output interfaces simultaneously or independently.

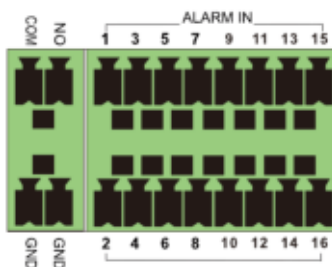
● Audio Connections

Audio Input: Connect to microphone, pickup, etc.

Audio Output: Connect to headphone, sound box or other audio output devices.

● Alarm Connections

Some models may support this function. Take 16 CH alarm inputs and 1 CH alarm output for example.



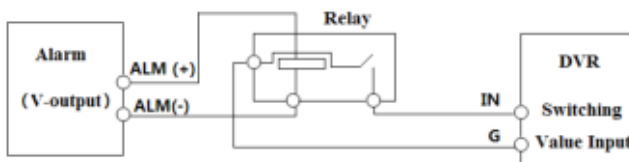
Alarm Input:

Alarm IN 1~16 are 16 CH alarm input interfaces. There are no type requirements for sensors. NO type and NC type are both available.

The way to connect sensor and the device is as shown below:



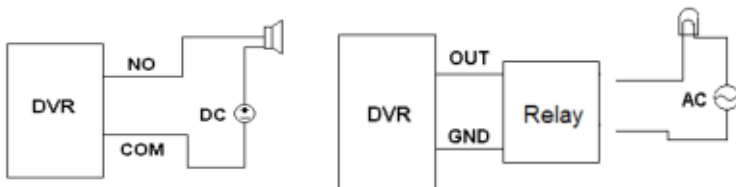
The alarm input is an open/closed relay. If the input is not an open/closed relay, please refer to the following connection diagram:



Alarm Output:

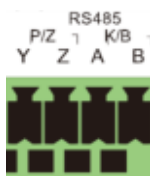
The way to connect alarm output device:

Pull out the green terminal blocks and loosen the screws in the alarm-out port. Then insert the signal wires of the alarm output devices into the port of NO and COM separately. Finally, tighten the screws. Provided that the external alarm output devices need power supply, you can connect the power supply as per the following figures.



● RS485 Connection

There are two types of RS485 interfaces:



(Type 1)



(Type 2)

Type 1: The P/Z interfaces are used to connect speed dome. K/B interfaces are used to connect keyboard.

Type 2: The RS485 interfaces are not only used to connect speed dome but also to connect keyboard.

The way to connect speed dome to the DVR:

Type 1: Disconnect pluggable block from the RS485 terminal block and then loosen the fixed screws from the pluggable block, insert signal cables into Y and Z port separately (Y is TX+; Z is TX-) and tighten the fixed screws. Next, connect pluggable block back into terminal block. Finally, connect the video cable of the speed dome to the video input interface of the DVR.

Type 2: Disconnect pluggable block from the RS485 terminal block and then loosen the fixed screws from the pluggable block, insert signal cables into A and B port separately (A is TX+; B is TX-) and tighten the fixed screws. Next, connect pluggable block back into terminal block. Finally, connect the video cable of the speed dome to the video input interface of the DVR.

Note:

The pluggable block of some models may not be connected into the terminal block and you shall obtain it from the accessories.

2 Basic Operation Guide

2.1 Startup & Shutdown

Please make sure all the connections are done properly before you power on the unit. Proper startup and shutdown are crucial to extending the life of your device.

2.1.1 Startup

- ① Connect the output display device to the VGA/HDMI interface of the DVR.
- ② Connect with the mouse and power. The device will boot and the power LED would turn blue.
- ③ A WIZARD window will pop up (you should select the display language the first time you use the DVR). Refer to [3.1 Startup Wizard](#) for details.

2.1.2 Shutdown

You can power off the device by using remote controller or mouse.

By remote controller:

- ① Press Power button. This will take you to a shutdown window. The unit will power off after a while by clicking “OK” button.
- ② Disconnect the power.

By mouse:

- ① Click Start→Shutdown to pop up the Shutdown window. Select “Shutdown” in the window. The unit will power off after a while by clicking “OK” button.
- ② Disconnect the power.

2.2 Remote Controller

- ① It uses two AAA size batteries.
- ② Open the battery cover of the remote controller.
- ③ Place batteries. Please take care the polarity (+ and -).
- ④ Replace the battery cover.

Key points to check in case the remote doesn't work.

1. Check batteries polarity.
2. Check the remaining charge in the batteries.
3. Check IR controller sensor for any masking.

If it still doesn't work, please change a new remote controller to try, or contact your dealers. You can just turn the IR sensor of the remote controller towards the IR receiver of the DVR to control it when you are controlling multiple devices by remote controller.

There are two kinds of remote controller. The interface of remote controller is shown as below.



Button	Function
Power Button	Switch off—to stop the device
Record Button	To start recording
-/- /0-9	Input number or choose camera
Fn1 Button	Unavailable temporarily
Multi Button	To choose multi screen display mode
Next Button	To switch the live image
SEQ	To go to sequence view mode
Audio	To enable audio output in live mode
Switch	No function temporarily
Direction button	To move cursor in setup or pan/title PTZ
Enter Button	To confirm the choice or setup
Menu Button	To go to menu
Exit Button	To exit the current interface
Focus/IRIS/Zoom/PTZ	To control PTZ camera
Preset Button	To enter into preset setting in PTZ mode
Cruise Button	To go to cruise setting in PTZ mode
Track Button	No track function temporarily
Wiper Button	No function temporarily
Light Button	No function temporarily
Clear Button	No function temporarily
Fn2 Button	No function temporarily
Info Button	Get information about the device
	To control playback. Play(Pause)/Stop/Previous Frame/Next Frame/Speed Down/Speed Up
Snap Button	To take snapshots manually
Search Button	To go to search mode
Cut Button	No function temporarily
Backup Button	To go to backup mode
Zoom Button	To zoom in the images
PIP Button	No function temporarily

Note:

You shall press P.T.Z button to enter PTZ setting mode, choose a channel and press P.T.Z button again to hide the P.T.Z control panel. Then you can press preset, cruise, track, wiper or light button to enable the relevant function.



Button	Function
REC	Record manually
Search	To enter search mode
MEUN	To enter menu
Exit	To exit the current interface
ENTER	To confirm the choice or setup
Direction button	To move cursor in setup
ZOOM	To zoom in
PIP	No function temporarily
	To control playback. Play(Pause)/Next Frame/Speed Up/Stop/Previous Frame/Speed Down
Multi	To choose multi screen display mode
Next	To switch the live image
SEQ	To go to sequence view mode
INFO	Get information about the device

2.3 Mouse Control

➤ Mouse control in Live Preview & Playback interface

In the live preview & playback interface, double click on any camera window to show the window in single screen mode; double click the window again to restore it to the previous size.

In the live preview & playback interface, if the interfaces display in full screen, move the mouse to the bottom of the interface to pop up a tool bar. The tool bar will disappear automatically after you move the mouse away from it for some time; move the mouse to the right side of the interface to pop up a panel and the panel will disappear automatically after you move the mouse away from it.

➤ Mouse control in text-input

Move the mouse to the text-input box and then click the box. The input keyboard will pop up automatically.

Note: Mouse is the default tool for all operations unless an exception as indicated.

2.4 Text-input Instruction



The system includes two input boxes. Refer to the above pictures. The left box is the number input box and the right box is the input box which provides inputs of numbers, letters and punctuation characters. The introductions of keys on the input boxes are shown below.

Button	Meaning	Button	Meaning
	Backspace key		Switch key of punctuation character
	Delete Key		Enter key
	Switch key between upper and lower letter		Space key
	Switch key of language		

2.5 Common Button Operation

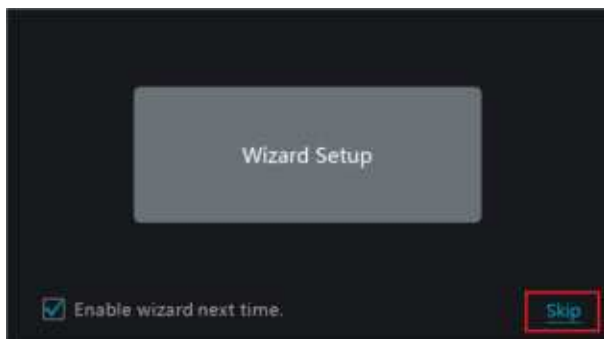
Button	Meaning
	Click it to show the menu list.
	Click it to change the sequence of the list.
	Click it to change the camera displaying mode.
	Click it to close the current interface.
	Click it to go to the earliest date of camera recording.
	Click it to go to the latest date of camera recording.

3 Wizard & Main Interface

3.1 Startup Wizard

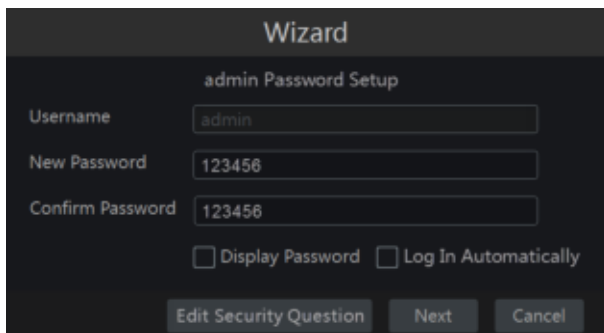
The disk icons will be shown on the top of the startup interface. You can view the number and status of each disk quickly and conveniently through these icons (🖥️: no disk; 🚫: unavailable disk; 🟢: RW available disk).

You can quickly configure the DVR by wizard setup to make the DVR work normally. You must configure the wizard if you start the DVR for the first time (or click “Skip” to cancel the wizard next time).



Click “Wizard Setup” to start wizard. The setting steps are as follows.

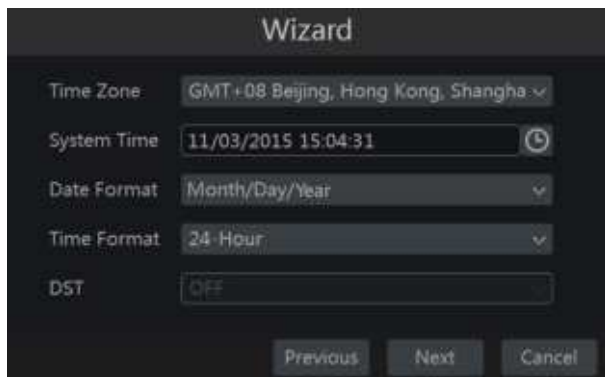
① **System Login.** Set your own password or use the default when you use the wizard for the first time (the default username of the system is *admin* and the default password of admin is *123456*); select the login username and enter the corresponding password next time.



Click “Edit Security Question” to set questions and answers for password security of admin. If you forget the password, please refer to Q4 in [Appendix A FAQ](#) for details.

Click “Next” to continue or click “Cancel” to exit the wizard.

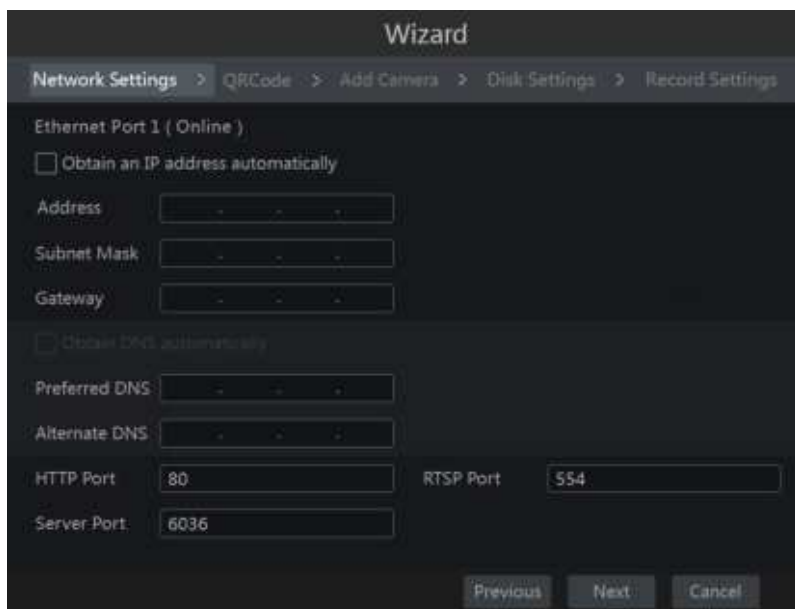
② **Date and Time Configuration.** The date and time of the system need to be set up if you use the wizard for the first time. Refer to the following figure. Set the time zone, system time, date format and time format. The DST will be enabled by default if the time zone selected includes DST. Click “Next” to continue.



The screenshot shows the 'Wizard' window for Date and Time Configuration. It includes the following fields and options:

- Time Zone:** A dropdown menu showing 'GMT+08 Beijing, Hong Kong, Shangha'.
- System Time:** A text field showing '11/03/2015 15:04:31' with a clock icon on the right.
- Date Format:** A dropdown menu showing 'Month/Day/Year'.
- Time Format:** A dropdown menu showing '24-Hour'.
- DST:** A dropdown menu showing 'OFF'.
- Buttons:** 'Previous', 'Next', and 'Cancel' buttons at the bottom.

③ **Network Settings.** Check “Obtain an IP address automatically” and “Obtain DNS automatically” to get the IP address and DNS automatically (the DHCP function of the router in the same LAN should also be enabled), or manually input them. Input the HTTP port, RTSP port and Server port (please see [11.1.2 Port Configuration](#) for details). Click “Next” to continue.

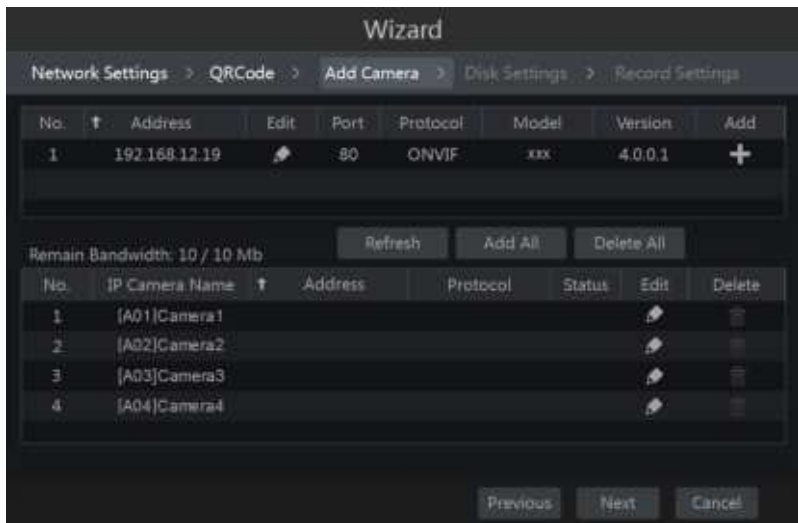


The screenshot shows the 'Wizard' window for Network Settings. It includes the following fields and options:

- Navigation Bar:** 'Network Settings' > 'QRCode' > 'Add Camera' > 'Disk Settings' > 'Record Settings'.
- Ethernet Port 1 (Online):**
 - ☐ Obtain an IP address automatically
 - Address:** A text field with three dashes.
 - Subnet Mask:** A text field with three dashes.
 - Gateway:** A text field with three dashes.
- ☐ Obtain DNS automatically
- Preferred DNS:** A text field with three dashes.
- Alternate DNS:** A text field with three dashes.
- HTTP Port:** A text field showing '80'.
- RTSP Port:** A text field showing '554'.
- Server Port:** A text field showing '6036'.
- Buttons:** 'Previous', 'Next', and 'Cancel' buttons at the bottom.

④ **QRCode.** Enable the NAT function in the interface or set it in the network configuration after exiting the wizard (please refer to [11.1.7 NAT Configuration](#) for details). You can scan the QRCode through mobile client which is installed in the mobile phone or PAD to log in the mobile client instantly. Please refer to [12.1 Mobile Client Surveillance](#) for details.

⑤ **Add Camera.** Click “Refresh” to refresh the list of online IP cameras which are in the same local network with DVR and then click  to add the searched camera. Click “Add All” to add all the cameras in the list. Click  to delete the added camera. Click “Delete All” to delete all the added cameras.



Click  to edit the searched IP camera as shown on the below left. Input the new IP address, subnet mask, gateway and the password of the camera. You can check “Sync to IPC” to modify the IP address of the IPC via different network segments for being in the same network segment with the DVR. Click “OK” to save the settings.

Click  to edit the added camera as shown on the above right. Input the new camera name, IP address, port, username and the password of the camera. You can click “Test” to test the effectiveness of the input information. Click “OK” to save the settings. You can change the camera name only if it’s an analog camera or the added IPC is online. Click “Next” to continue.

⑥ **Disk Settings.** You can view the disk number, disk capacity of the DVR and serial number, R&W status of the disk. Click “Formatting” to format the disk. Click “Next” to continue.

⑦ **Record Settings.** Two record modes are available: auto and manual.

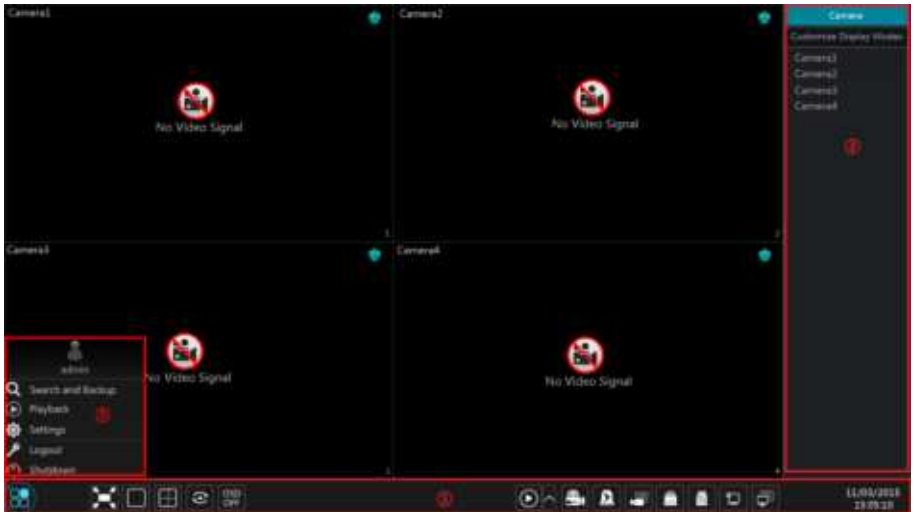
Auto: Select one auto mode in the interface as shown below and then click “OK” button to save the settings. See [7.1.1 Mode Configuration](#) for details.

Manual: Set the “Sensor Record”, “Motion Record” and “Schedule Record” of each camera. Click “OK” to save the settings. See [7.1.1 Mode Configuration](#) for details.



3.2 Main Interface

3.2.1 Main Interface Introduction



The buttons in area ① are introduced in the table below.

Button	Meaning
	Start button. Click it to pop up area ③.
	Full screen button. Click it to show full screen; click it again to exit the full screen.
	Screen mode button.

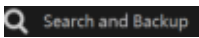
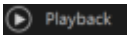
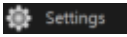
Button	Meaning
	Dwell button (see 5.2.2 Quick Sequence View and 5.2.3 Scheme View In Sequence for details).
	Click it to enable OSD; click  to disable OSD.
	Click  to set the default playback time before starting instant playback (8.1 Instant Playback) or going to the playback interface for playback operations (8.2 Playback Interface Introduction); click  to go to the playback interface. For instance, if you choose “5 minutes ago” as the default playback time, you can playback the record from the past five minutes.
	Manual record button. Click it to enable/disable record.
	Manual alarm button. Click it to trigger or clear the alarm-out manually in the popup window.
	Record status button. Click it to view the record status.
	Alarm status button. Click it to view the alarm status.
	Disk status button. Click it to view the disk status and RAID status.
	Network status button. Click it to view the network status.
	Information button. Click it to view system information.

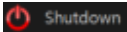
Introduction of area ②:

Click “Camera” to view all the added cameras in the camera list. Select one camera window on the left side of the interface and then double click one IP camera in the list to preview the camera image in the selected window.

Click “Customize Display Modes” to view all the display modes in the display mode list (refer to [5.2.1 Preview By Display Mode](#) for detail configuration of the display mode). Double click one display mode in the list to switch to the display mode for previewing.

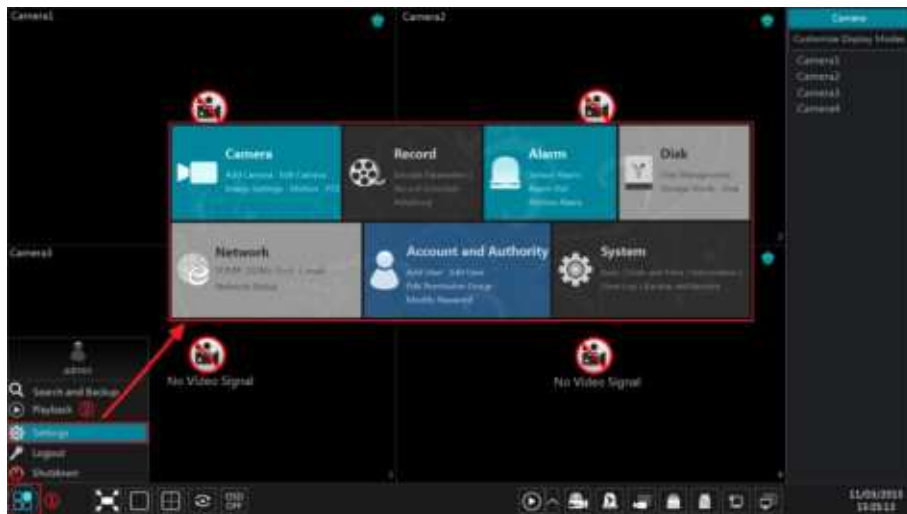
Introduction of area ③:

Icon / Button	Meaning
	It shows the current login user.
	Click it to go to record search interface, see 8.3 Record Search, Playback & Backup for details.
	Click it to go to playback interface (click  on the tool bar at the bottom of the live preview interface to set the default playback time), see 8.2 Playback Interface Introduction for details.
	Click it to pop up the setup panel, see 3.2.2 Setup Panel for details.
	Click it to log out the system.

Icon / Button	Meaning
 Shutdown	Click it and then select “Logout”, “Reboot” or “Shutdown” in the popup window.

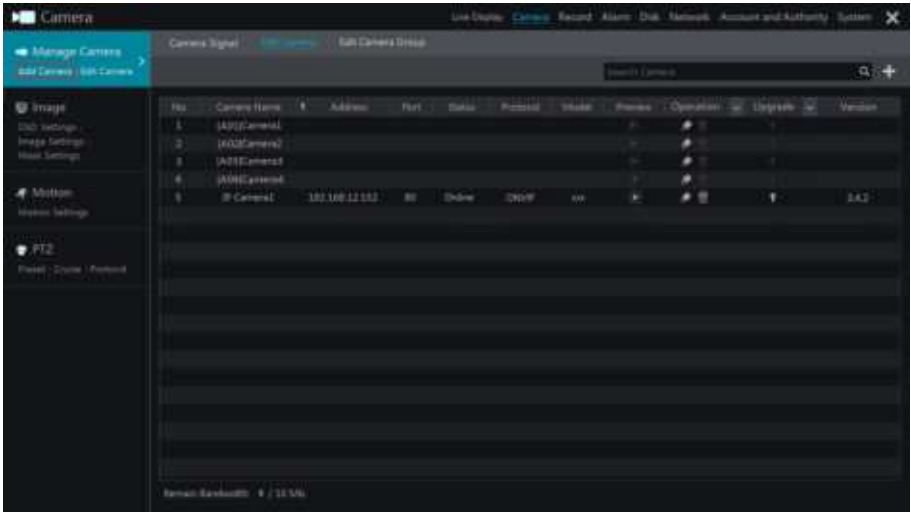
3.2.2 Setup Panel

Click Start→Settings to pop up the setup panel as shown below.

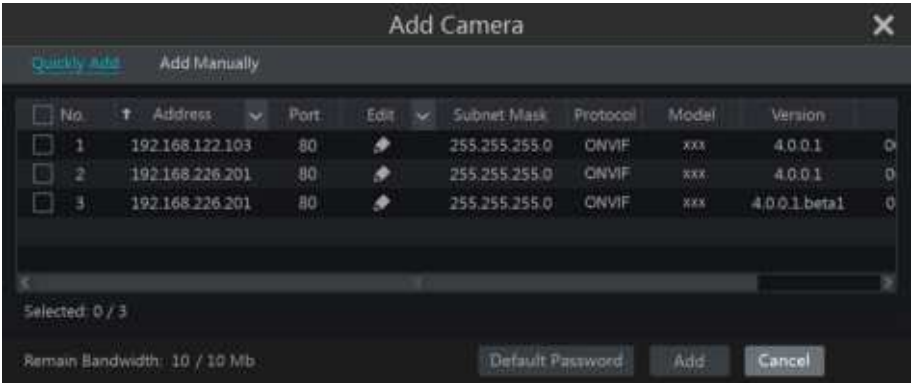


The setup panel includes seven modules. Each module provides some function entries with links for convenient operation.

Here we take **Camera** module as an example. The **Camera** module provides convenient links such as “Add Camera”, “Edit Camera”, “Image Settings”, “Motion” and “PTZ”. Click **Camera** to go to the camera management interface as shown below.



There are some function items on the left side of the camera management interface. Click each item to go to corresponding interface or window. For instance, click “Add Camera” to pop up the window as shown below.



Click the main menus on the top of the camera management interface to go to corresponding interfaces. Refer to the picture below. For instance, you can go to system setup interface by clicking “System” tag.



3.2.3 Main Functions

➤ Camera

The module covers the functions such as *Camera Management* (see [Chapter 4 Camera Management](#) for details), *Image Settings* (see [5.3 Preview Image Configuration](#) for details), *Motion* (see [9.2.1 Motion Configuration](#) for details) and *PTZ* (see [Chapter 6 PTZ](#) for details) and so on.

➤ Record

The module covers the functions such as *Encode Parameters* and *Record Schedule* and so on. Please see [Chapter 7 Record & Disk Management](#) for details.

➤ Disk

The module covers the functions such as *Disk Management*, *Storage Mode* and *Disk Information* and so on. Please see [Chapter 7 Record & Disk Management](#) for details.

➤ Alarm

The module covers the functions such as *Sensor and Motion Alarm Handling* and *Alarm Out Settings*. Please see [Chapter 9 Alarm Management](#) for details.

➤ Network

The module covers the functions such as *TCP/IP*, *DDNS*, *Port*, *E-mail* and *Network Status* and so on. Please see [11.1 Network Configuration](#) for details.

➤ Account and Authority

The module covers the functions such as *Account Management* (see [10.1 Account Management](#) for details) and *Permission Management* (see [10.3 Permission Management](#) for details) and so on.

➤ System

The module covers the functions such as *Basic Configuration* (see [11.2 Basic Configuration](#) for details), *Device Information* (see [11.8 View System Information](#) for details), *Log Information* (see [11.7 View Log](#) for details) and *Configuration File Import&Export* (see [11.5 Backup and Restore](#) for details) and so on.

4 Camera Management

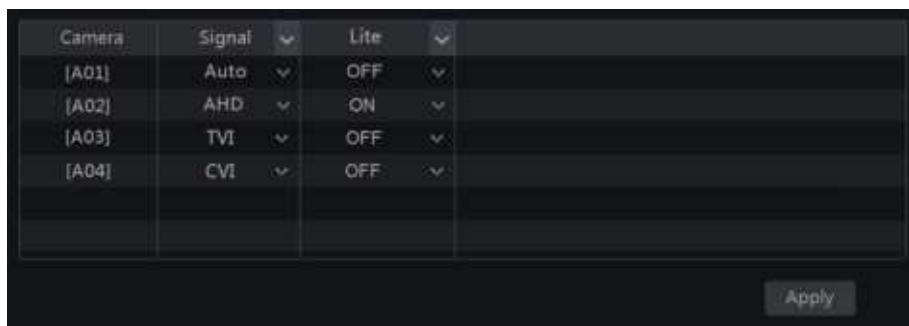
4.1 Camera Signal

Click Start→Settings→Camera→Manage Camera→Camera Signal to go to the interface as shown below.

The DVR device supports hybrid access of TVI, AHD and CVI high definition cameras. If the TVI high definition camera is accessed to the DVR, you should select TVI in the following interface to show the camera image normally; if you select AHD, then there will be no image or the image has no color. The default selection of the camera signal is Auto. If you select Auto, the image of the camera will be shown normally regardless of the camera type.



You can enable “Lite” in the interface if the DVR supports “Lite” recording. It will lower the recording resolution and increase the recording frame rate. Please enable or disable the Lite as you wish.

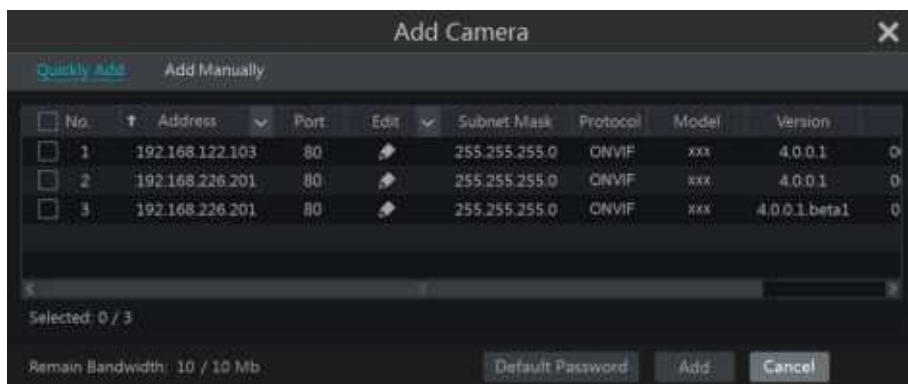
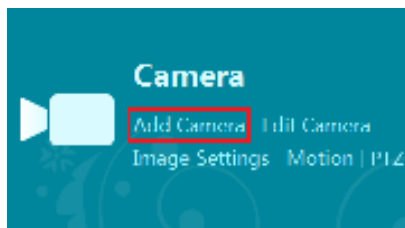


4.2 Add/Edit Camera

4.2.1 Add Camera

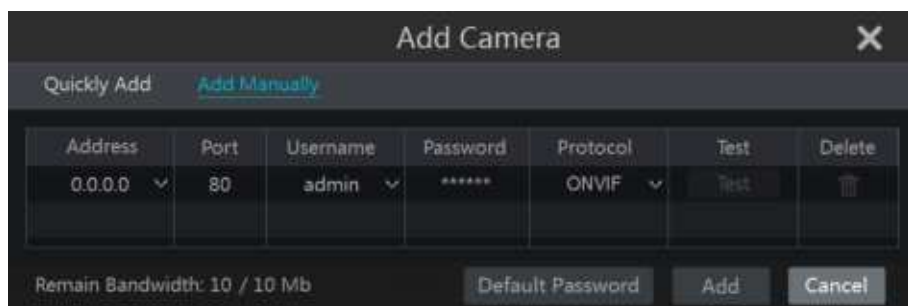
The network of the DVR should be set before adding IP camera (see [11.1.1 TCP/IP Configuration](#) for details).

Refer to the pictures below. Click **Add Camera** in the setup panel or **+** in the top right corner of the preview window to pop up the “Add Camera” window as shown below. You can quickly add or add the IP camera manually.



➤ Quickly Add

Check the cameras and then click “Add” to add cameras. Click to edit the camera’s IP address, username and password and so on. Click “Default Password” to set the default username and password of each camera.

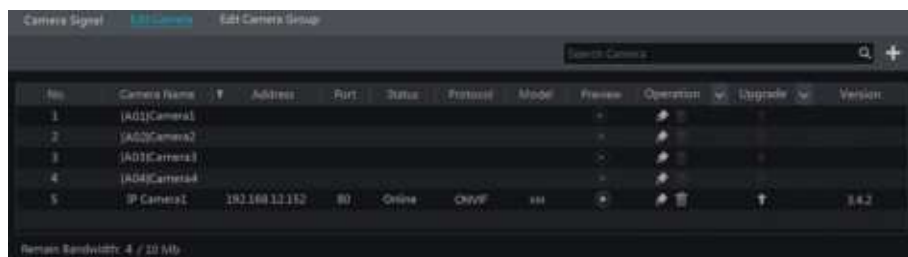


➤ Add Manually

Input the IP address or domain name (click  in the IP address column to pop up the domain name input window, input the domain name of the IPC in the window and then click “OK” button), port, username and password of the camera and then select the protocol. Click “Test” to test the effectiveness of the input information and then click “Add” button (you can input one camera’s information or above such as IP address, username and password before clicking “Add” button). Click  to delete the camera. Click “Default Password” to set the default username and password of each camera.

4.2.2 Edit Camera

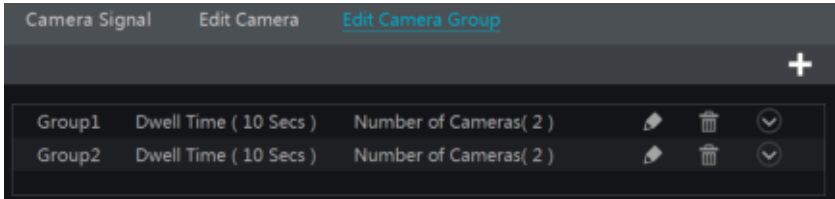
Click “Edit Camera” in the setup panel to go to the interface as shown below. Click  to view the live image of the camera in the popup window. Click  to edit the camera (see [Add camera in 3.1Startup Wizard](#) for details). Click  to delete the IP camera. Click  in the “Operation” header line and then click “Modify IPC Password” to pop up a window(check the IPCs in the window, set the new password and then click “OK” button; only the online IPCs’ passwords can be modified and a batch of IPCs’ passwords can be modified at the same time). Click  to upgrade an online IPC (or click  in the “Upgrade” header line and then click “IPC Batch Upgrade” to upgrade a batch of IPCs), select the device which stores the upgrade file in the “Device Name” item of the popup window and the upgrade file in the list(you should select the upgrade IPC model in the window if a batch of IPCs’ passwords need to be modified) and then click “Upgrade” button to start upgrading(the IPC will restart automatically after the upgrade is completed successfully).



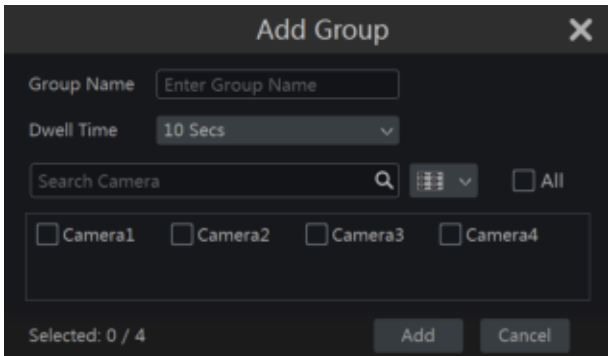
4.3 Add/Edit Camera Group

4.3.1 Add Camera Group

Click “Edit Camera Group” in the above interface to go to the interface as shown below.



Click  to pop up the window as shown below. Set the group name and dwell time in the window. Check the cameras and then click “Add” to add group. Click  to view the cameras in the group after adding group.



4.3.2 Edit Camera Group



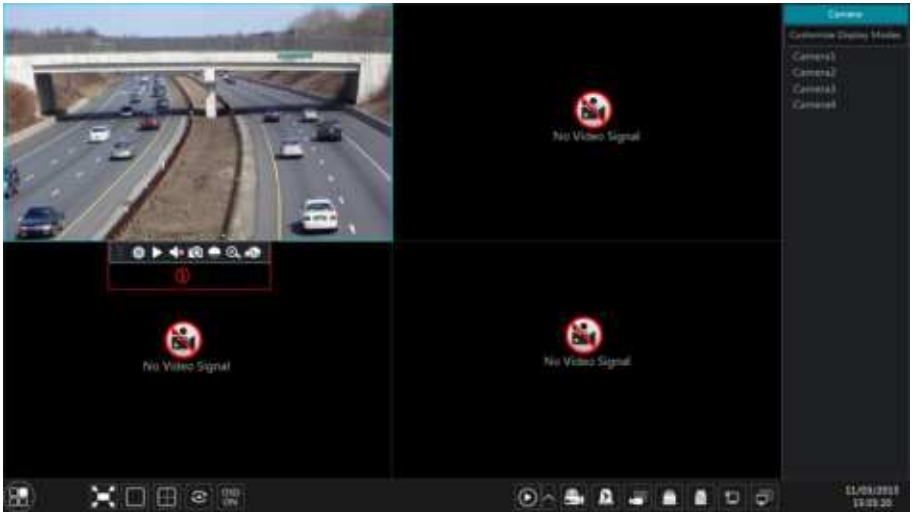
Click  to modify the group information such as group name and dwell time. Click  to delete the group.

5 Live Preview Introduction

5.1 Preview Interface Introduction

The connected analog camera will be added automatically in the live preview interface for previewing. You should add IP camera manually for previewing (see [4.2.1 Add Camera](#) for details). Refer to the interface as shown below, drag one camera in the preview window to another window for camera window exchanging.

The record symbols with different colors in the live preview window refer to different record types when recording: green stands for manual record, red stands for sensor based record, yellow stands for motion based record and blue stands for schedule record.



Click the preview window to show the tool bar as shown in area ①; right click the preview window to show the menu list. The tool bar and menu list are introduced in the table below.

Button	Menu List	Meaning
	--	Move tool. Click it to move the tool bar anywhere.
	Manually Record On	Click it to start recording.
	Instant Playback	Click to playback the record; click “Instant Playback” to select or self-define the instant playback time. See 8.1 Instant Playback for details.
	Enable Audio	Click it to enable audio. You can listen to the camera audio by enabling audio.
	Snap	Click it to pop up the snap window. Click “Save” in the window to save the image. Click “Export” to export the image.
	PTZ Control	Click it to go to PTZ control interface. See Chapter 6 PTZ for details.
	Zoom In	Click it to go to single channel amplification interface.

Button	Menu List	Meaning
	--	Click it to go to image adjustment interface. Refer to 5.3.4 Image Adjustment for details.
--	Camera Info	Click it to view the IP camera information.

The single channel amplification interface is as shown below. Press and drag the blue box to select the zoom in area. Click  /  to zoom the image. Click the camera selection box to select other cameras for amplification. Click “Back” to return to the live preview interface.



5.2 Preview Mode

5.2.1 Preview By Display Mode

Set different screen modes and cameras' display sequences as required and then save the display modes classified by surveillance areas, priorities and so on. Refer to the picture below. Double click one display mode in the display mode list to view the live images in this mode.



➤ Add Display Mode

Method One:

- ① Click “Customize Display Modes” in the above interface and then set the screen mode.
- ② Add the cameras and adjust the cameras’ display sequence as required.
- ③ Click “Save” button under the display mode list and then enter the display mode name in the popup window, click “OK” button to save the current display mode.

Method Two:

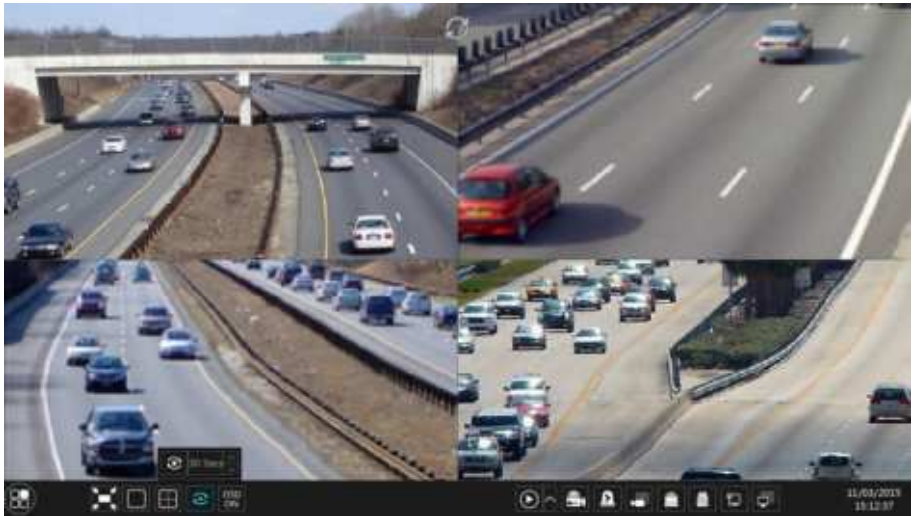
- ① Click Start→Settings→System→Basic→Output Settings→Main Output to go to the interface and then set the screen mode.
- ② Double click the camera or camera group in the list to add them to the selected window.
- ③ Click  to save the current display mode (refer to [5.2.3 Scheme View In Sequence](#) for detail configurations). The display mode will be saved and displayed in the display mode list in the live preview interface.

➤ Edit Display Mode

Click “Customize Display Modes” tab in the live preview interface and then select one display mode in the list. Click “Rename” to edit the display mode name; click “Delete” to delete the display mode.

5.2.2 Quick Sequence View

You can start quick sequence view if the scheme has not been created. If the scheme has been created, please refer to [5.2.3 Scheme View in Sequence](#) for details.

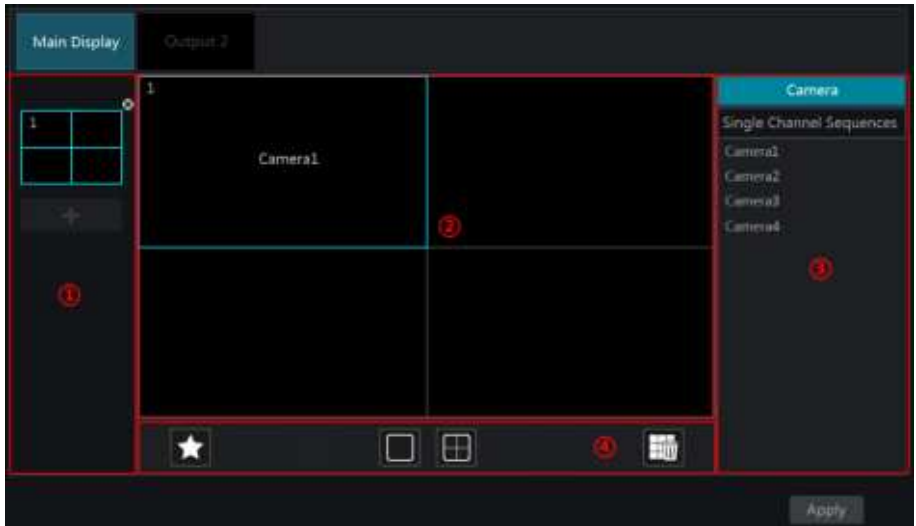


Go to the live preview interface and then click  to pop up a little window. Set the dwell time in the window and then click  to view the live group by group according to the camera number of the current screen mode. Double click the sequence view interface to pause the view; double click again to restore the view. Click  to stop the view.

5.2.3 Scheme View In Sequence

Click Start→Settings→System→Basic→Output Settings→Main Output to go to the interface as shown below.

Area ① displays all the dwell schemes; area ② shows the detailed information of the scheme; area ③ displays all the cameras and groups; area ④ is the tool bar (: clear button; : favourite button, click it to pop up a window, enter the display mode name in the window and then click “OK” to save the current display mode; other buttons are screen mode buttons).



➤ Add Scheme

Click in area ① to create a new scheme. Click on the top right corner of the scheme to delete it.

➤ Configure Scheme

- Select a scheme in area ① and then click the screen mode button on the tool bar to set the screen mode of the scheme.
- Select a camera window in area ② and then double click the camera or group in area ③. The camera or group will be added into the selected window. One camera in the same scheme cannot repeat. You can click the right-click menu “Clear” in area ② to remove a single camera or click to remove all the cameras.
- Click “Apply” to save the settings.

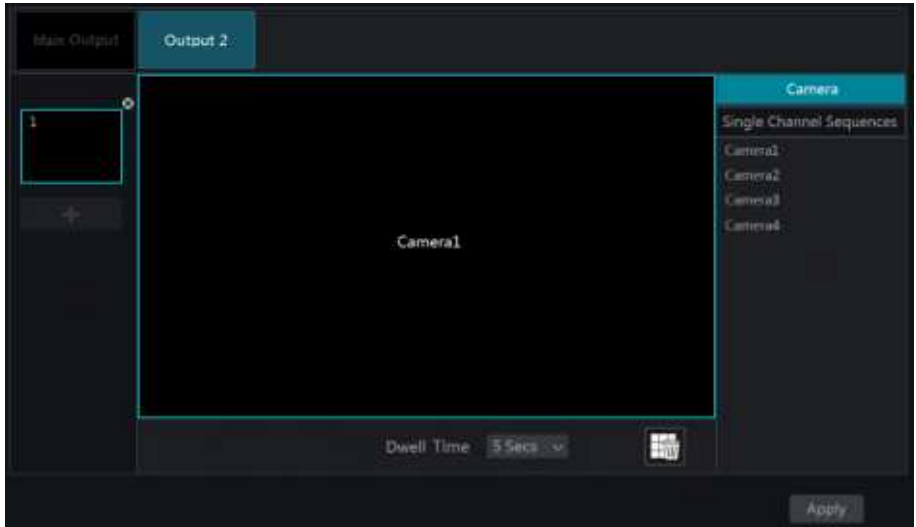
➤ Start Sequence View

Go to live preview interface and then click to pop up a window. Set the dwell time in the window and then click to start scheme view in sequence. Double click the sequence view interface to pause the view; double click again to restore the view. Click to stop the view.

5.2.4 Spot View

Click Start→Settings→System→Basic→Output Settings→Output 2 to go to the interface as shown below.

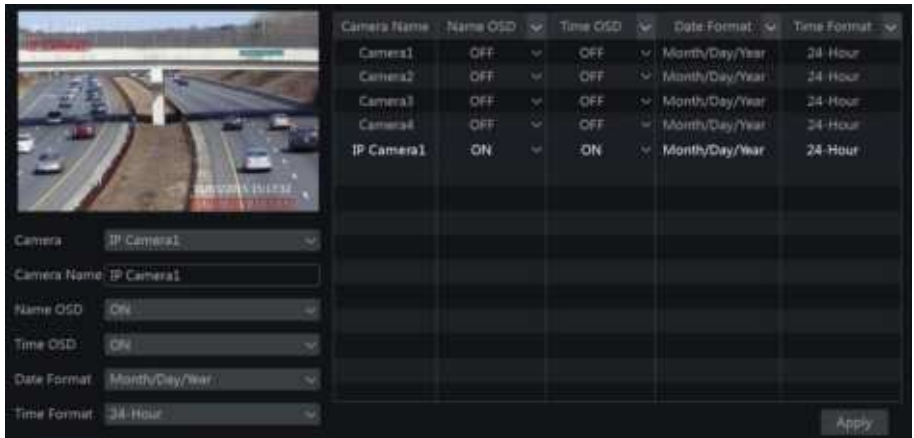
Click on the left to create a new scheme. Each scheme can only add one analog camera. Select a scheme on the left and then double click or drag a camera on the right to the scheme window in the middle of the interface. After finishing the settings of all the schemes, select the dwell time and click “Apply” to start playing the schemes in sequence in output 2.



5.3 Preview Image Configuration

5.3.1 OSD Settings

Click Start→Settings→Camera→Image→OSD Settings to go to the interface as shown below. Select the camera, input the camera name (or double click the camera name in the camera list to change the camera name), enable or disable the name and time OSDs (if enabled, drag the red name and time OSDs directly in the image view area to change the OSDs' display position) and select the date and time formats. Click “Apply” to save the settings.



5.3.2 Image Settings

Click Start→Settings→Camera→Image→Image Settings to go to the following interface.

Select the camera and then set the brightness, contrast, saturation and hue of the camera. You can click “Default” button to restore the image settings to the default factory settings.



Camera Name	Brightness	Contrast	Saturation	Hue
Camera1	50	55	50	50
Camera2	50	55	50	55
Camera3	50	55	50	55
Camera4	50	55	50	55

Camera

Camera1

Brightness
50

Contrast
55

Saturation
50

Hue
50

Default

5.3.3 Mask Settings

Some areas of the image can be masked for privacy. Up to four mask areas can be set for each camera. Click Start→Settings→Camera→Image→Mask Settings to go to the interface as shown below. Select the camera and enable the mask. Click “Draw” button and then drag the mouse on the image area to set the mask area; click “Delete” button to delete the mask areas; click “Apply” to save the settings.



Camera Name	Mask	Color
Camera1	ON	Black
Camera2	OFF	Black
Camera3	OFF	Black
Camera4	OFF	Black

Draw

Delete

Camera

Camera1

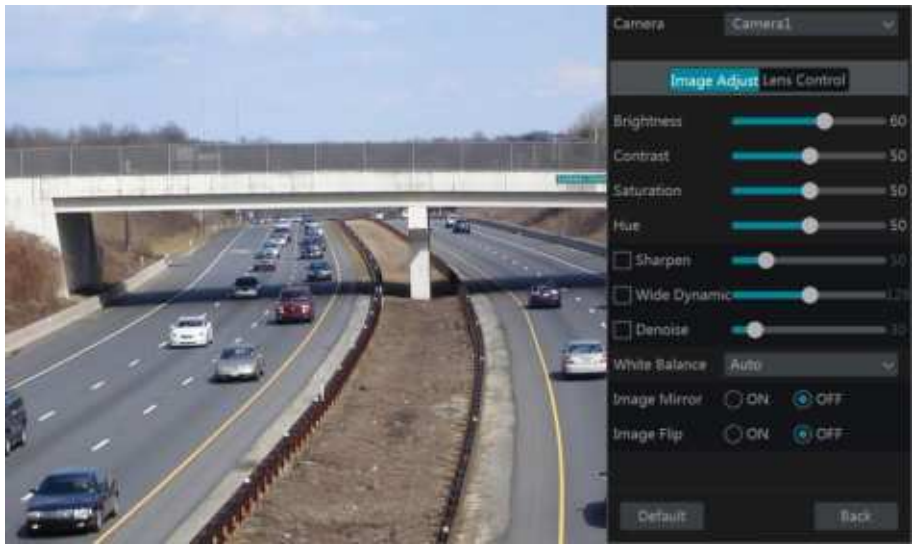
Mask

ON

Apply

5.3.4 Image Adjustment

Go to live preview interface and then click  button on the tool bar under the camera window to go to the image adjustment interface.



➤ Image Adjustment

Select the camera and then click “Image Adjustment” to go to image adjustment tab. Refer to the above picture. Drag the slider to set the camera’s brightness, contrast, saturation and hue value. Check sharpen, wide dynamic and denoise and then drag the slider to set the value. Click “Default” button to set these parameters to default values.

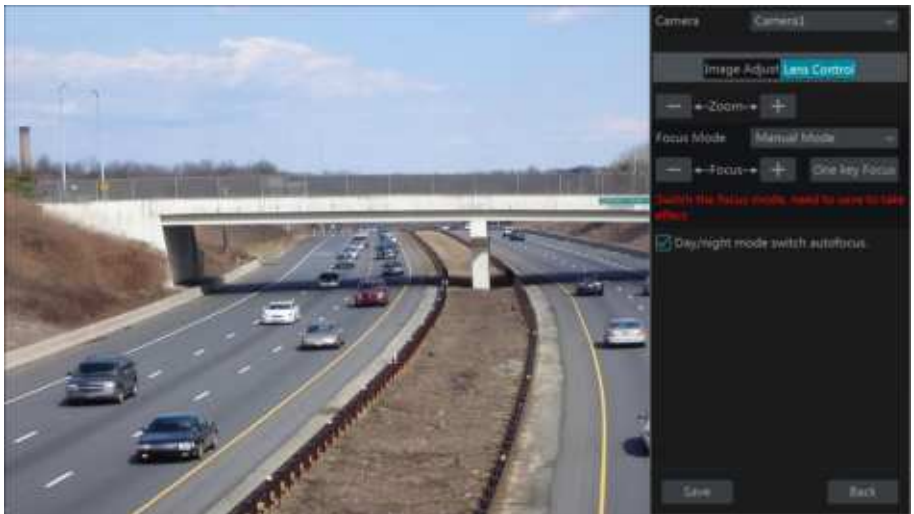
The introductions of these parameters are as follows:

Parameter	Meaning
Brightness	It is the brightness level of the camera’s image.
Contrast	It is the color difference between the brightest and darkest parts.
Saturation	It is the degree of color purity. The color is purer, the image is brighter.
Hue	It relates to the total color degree of the image.
Sharpen	It relates to the resolution level of the image plane and the sharpness level of the image edge.
Wide Dynamic	The wide dynamic range (WDR) function helps the camera provide clear images even under back light circumstances. When there are both very bright and very dark areas simultaneously in the field of view, WDR balances the brightness level of the whole image and provide clear images with details.
Denoise	Adopt the noise reduction technology to decrease the noise and make the image more thorough. Increasing the value will make the noise reduction effect better but it will reduce the image resolution.

Parameter	Meaning
White Balance	White balance is the white rendition function of the camera to adjust the color temperature according to the environment automatically.
Image Mirror	Reverse the current video image right and left.
Image Flip	Turn the current video image upside down.

➤ Lens Control

Select the camera and then click “Lens Control” to go to lens control tab. Click  or  to adjust the zoom and focus parameters of the camera’s lens. Click “Save” to save the settings.



The introductions of these parameters and buttons are as follows:

Button/Parameter	Meaning
 Zoom 	Click  /  to zoom in/out the image.
Focus Mode	If manual mode is selected, focus button & “One Key Focus” & “Day/night mode switch autofocus” will be available; if auto mode is selected, the time interval setup will be available.
 Focus 	Click  /  to increase/decrease the focal length.
One key Focus	Click it to focus instantly.
Day/night mode switch autofocus	If checked, the lens will focus automatically when the camera is switching day/night mode.
Time Interval	It is the time interval when camera lens is auto-focusing. The interval can be set in the drop-down list.

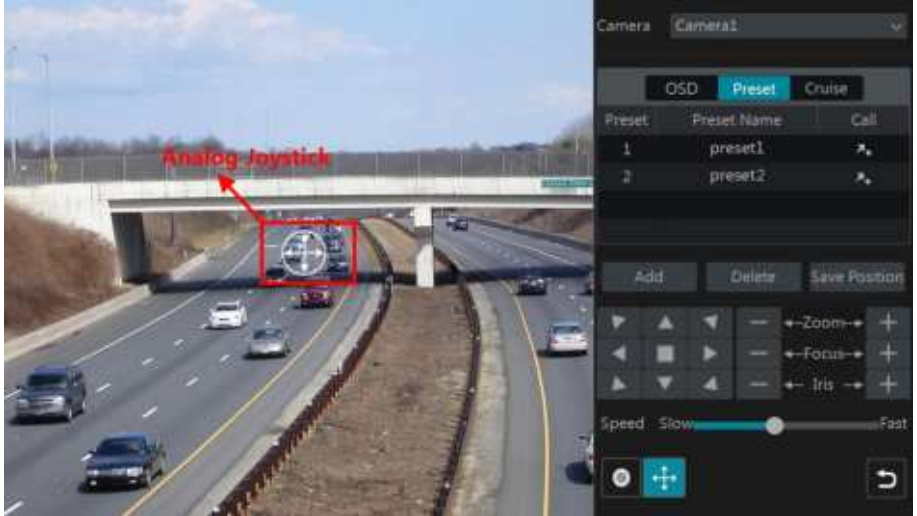
Note: This function is only available for the models with auto varifocal lens, or the settings here are ineffective.

6 PTZ

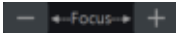
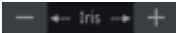
6.1 PTZ Control Interface Introduction

You can control the dome or PTZ which connects to the camera for PTZ control.

Click  on the tool bar at the bottom of the live preview window to go to the PTZ control interface as shown below. You can select another dome or PTZ which connects to the camera on the top right of the interface for PTZ control.



Introductions of the buttons on the bottom right of the interface:

Button	Meaning
	Click  /  /  /  /  /  /  /  to rotate the dome. Click  to stop rotating the dome.
	Click  /  to zoom in / out the camera image.
	Click  /  to increase / decrease the focal length.
	Click  /  to increase / decrease the iris of the dome.
	Drag the slider to adjust the rotating speed of the dome.
	Click  /  to start / stop recording.
	Click  /  to hide / show the analog joystick.
	Click it to return to the live preview interface.

➤ Analog Joystick Control

The analog joystick on the left side of the interface provides quick PTZ control. The dome or PTZ will rotate when you drag the analog joystick. The farther you drag the analog joystick from the middle of the image, the faster the dome or PTZ rotates. The dome or PTZ will stop rotating when you stop dragging the analog joystick.

➤ 3D Control

Click the camera image on any area and then the image will be centered on the clicked point. Refer to the picture as shown below. Drag the mouse from A to B to get a green rectangle and the rectangle area will be zoomed in.



Refer to the picture as shown below. Drag the mouse from C to D to get a green rectangle and the rectangle area will be zoomed out.



➤ **Advanced 3D Control**

Double click the left button of the mouse on any area of the camera image and then the image size will be doubled and centered on the clicked point.

Press and hold the left button of the mouse on any area of the camera image to zoom in the image; press and hold the right button to zoom out the image.

Move the cursor of the mouse to the camera image and then slide the scroll wheel of the mouse forward to zoom in the image, slide the scroll wheel of the mouse backward to zoom out the image.

➤ **OSD Setting**

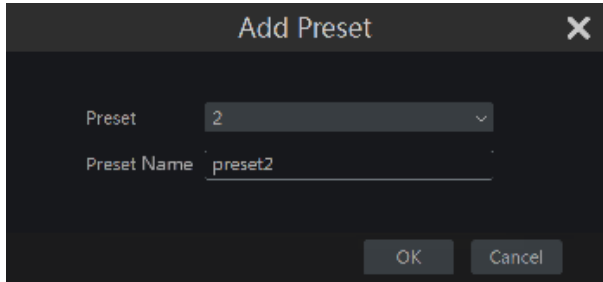
Go to PTZ protocol setting interface and then set the protocol to COC before you call the OSD. Click “OSD” to go to camera OSD setting interface. Click  to start OSD setting. The meanings of the buttons are shown in the table below.



Button	Meaning
	The OK button; you can click it to start OSD.
	Click it to change the menu mode or decrease the menu value.
	Click it to change the menu mode or increase the menu value.
	Click it to go to the previous menu.
	Click it to go to the next menu.

➤ Preset Setting

Click “Preset” to go to preset operation tab and then click “Add” button to pop up a window as shown below. Select the preset and then input the preset name in the window; finally click “OK” button to save the settings. You can add 255 presets for each dome at most.

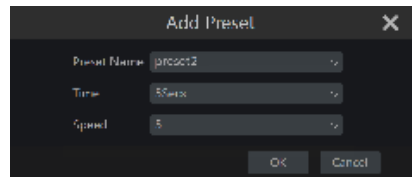
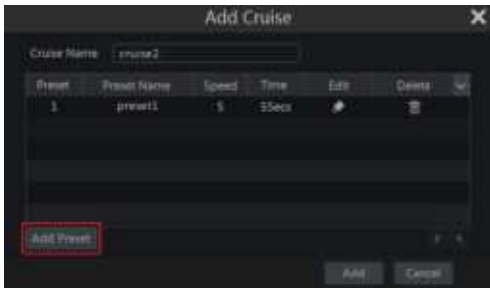


Adjust the dome's direction and then click “Save Position” to save the current preset position (you can also click another preset in the preset list and then save the preset position after adjusting the dome's direction); click  in the preset list to call the preset; click “Delete” button to delete the selected preset.

You can also go to preset setting interface for preset setting, see [6.2 Preset Setting](#) for details.

➤ Cruise Setting

Click “Cruise” to go to cruise operation tab and then click “Add” button to pop up a window as shown below left. You can add 8 cruises for each dome at most.



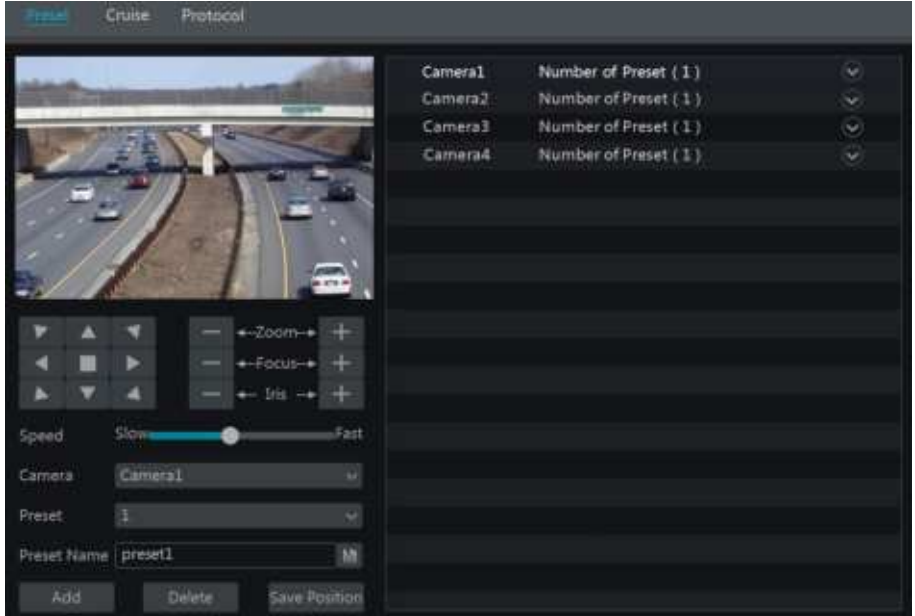
- ① Input the cruise name in the “Add Cruise” window and then click “Add preset” to pop up the “Add Preset” window (Before adding preset to the cruise, please add preset of the dome first).
- ② In the “Add Preset” window, select the preset name, preset time and preset speed and then click “OK” button.
- ③ In the “Add Cruise” window, you can click  to reselect the preset, then change the preset time and speed. Click  to delete the preset. Click “Add” button to save the cruise.

Click  to start the cruise and click  to stop the cruise in the cruise list of the cruise operation tab; click “Delete” button to delete the selected cruise.

You can also go to cruise setting interface for cruise setting, see [6.3 Cruise Setting](#) for details.

6.2 Preset Setting

Click Start→Settings→Camera→PTZ→Preset to go to the interface as shown below.



➤ Add preset

Select camera and then click “Add” button to add preset; or click  in the camera list on the right side of the interface to display the preset information of the dome and then click  to add preset. The operations of the “Add Preset” window are similar to that of the PTZ control interface; please see [6.1 PTZ Control Interface Introduction](#) for details.

➤ Edit preset

Select camera and preset. You can input the new name of the preset and then click  to save the new preset name. Adjust the rotating speed, position, zoom, focus and iris of the preset and then click “Save Position” to save the preset.

➤ Delete Preset

Select camera and preset and then click “Delete” to delete the preset.

6.3 Cruise Setting

Click Start→Settings→Camera→PTZ→Cruise to go to the interface as shown below.



➤ Add Cruise

Click  in the camera list on the right side of the interface to display the cruise information of the dome and then click  to add cruise. The operations of the “Add Cruise” window are similar to that of the PTZ control interface; please see [6.1 PTZ Control Interface Introduction](#) for details.

➤ Edit Cruise

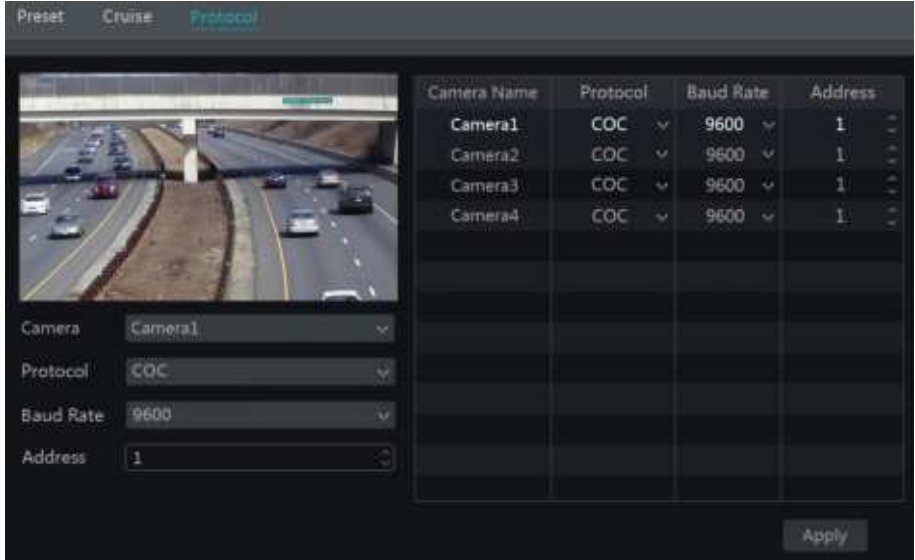
Select the camera and cruise in the “Cruise” interface. Input the new cruise name and then click  to save the cruise name. Click “Add Preset” to add preset to the cruise. Click  to delete the preset from the cruise. Click one preset in the preset list and then click  to move down the preset and click  to move up the preset. Click  to start the cruise and click  to stop it.

➤ Delete Cruise

Click  in the camera list on the right side of the interface to display the cruise information of the dome and then click  on the top right corner of the cruise to delete the cruise.

6.4 PTZ Protocol Setting

Click Start→Settings→Camera→PTZ→Protocol to go to the interface as shown below. You can set the protocol, baud rate and address of the analog dome in the interface. Please make sure the analog speed dome camera is well connected to the DVR before you control it.



Select the camera and then set the protocol, baud rate and address of the dome according to the settings of the dome.

Protocol: The default communication protocol of the DVR is COC. Range from: PELCOP, PELCOD, LILIN, MINKING, NEON, STAR, VIDO, DSCP, VISCA, COC, etc.

Address: The address of the PTZ device.

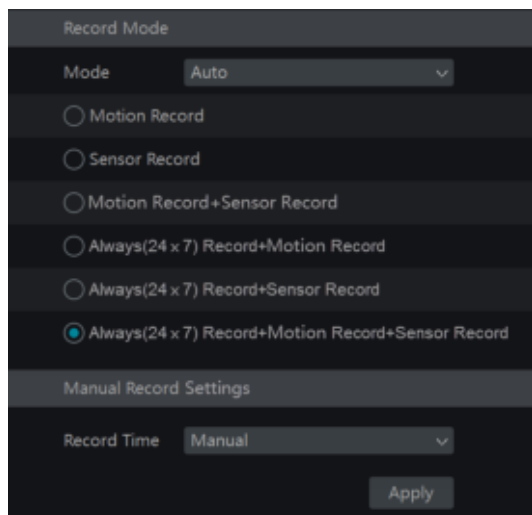
Baud Rate: Baud rate of the PTZ device. Range from: 110, 300, 600, 1200, 2400, 4800, 9600, 19200, 34800, 57600, 115200, 230400, 460800, 921600.

7 Record & Disk Management

7.1 Record Configuration

7.1.1 Mode Configuration

Please format the HDDs before recording (refer to [7.5 Disk Management](#) for details). Click Start→Settings→Record→Mode Settings to go to the mode settings interface. You can set the record time under the “Manual Record Settings” and then click “Apply” button to save the settings. There are two record modes: auto mode and manual mode.



➤ Auto Mode

Motion Record: Motion alarm record will be enabled when motion alarm happens.

Sensor Record: Sensor alarm record will be enabled when sensor alarm happens.

Motion Record+Sensor Record: Motion/sensor alarm record will be enabled when motion/sensor alarm happens.

Always(24 x 7) Record+Motion Record: Normal record is enabled all the time; motion alarm record will be started when motion alarm happens.

Always(24 x 7) Record+Sensor Record: Normal record is enabled all the time; sensor alarm record will be started when sensor alarm happens.

Always(24 x 7) Record+Motion Record+Sensor Record: Normal record is enabled all the time; motion/sensor alarm record will be enabled when motion/sensor alarm happens.

Select one auto mode to pop up the corresponding window. Set the encode, resolution, FPS, bitrate type, quality, max bitrate and audio of each camera and then click “OK” to save the settings. Please adjust the parameters according to the actual condition.



Video Encode: the video encode format of the camera.

Resolution: the higher the resolution is, the clearer the image is.

FPS: the higher the frame rate is, the more fluency the video is. However, more storage room will be taken up.

Bitrate Type: CBR and VBR are optional. CBR means that no matter how changeable the video resources are, the compression bitrate keeps constant. This will not only facilitate the image quality better in a constant bitrate but also help to calculate the capacity of the recording. VBR means that the compression bitrate can be adjustable according to the change of the video resources. This will help to optimize the network bandwidth.

Quality: When VBR is selected, you need to choose image quality. The higher the image quality you choose, the more bitrate will be required.

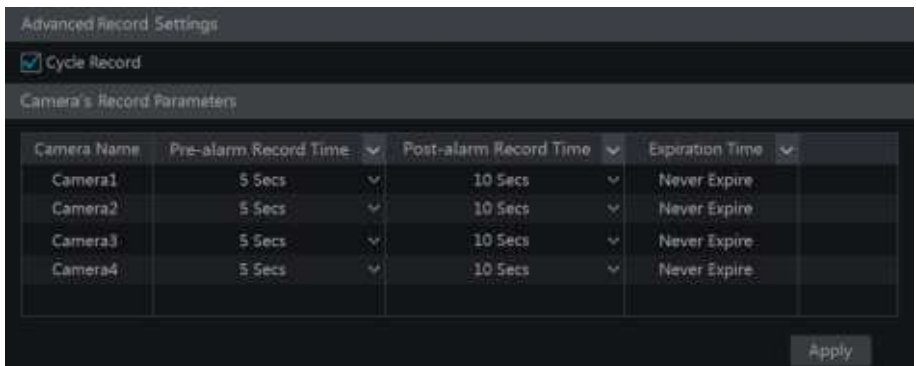
Max Bitrate: 32Kbps ~10240Kbps are optional.

➤ Manual Mode

If the manual mode is selected, you need to set the encode parameters and record schedules of each camera. See [7.2 Encode Parameters Setting](#) and [7.3 Schedule Setting](#) for details.

7.1.2 Advanced Configuration

Click Start→Settings→Record→Advanced to go to the following interface. Enable or disable cycle record (cycle record: the earliest record data will be replaced by the latest when the disks are full). Set the pre-alarm record time, post-alarm record time and expiration time of each camera and then click “Apply” to save the settings.



Pre-alarm Record Time: set the time to record before the actual recording begins.

Post-alarm Record Time: set the time to record after the actual recording is finished.

Expiration Time: set the expiration time for recorded video. If the set date is overdue, the recorded data will be deleted automatically.

7.2 Encode Parameters Setting

Click Start→Settings→Record→Encode Parameters to go to the interface as shown below. Set the encode, resolution, FPS, bitrate type, quality, max bitrate and audio of main stream for each camera in “Event Recording Settings” and “Schedule Recording Settings” interfaces. Click “Apply” to save the settings. You can set the record stream of each camera one by one or batch set them for all cameras.



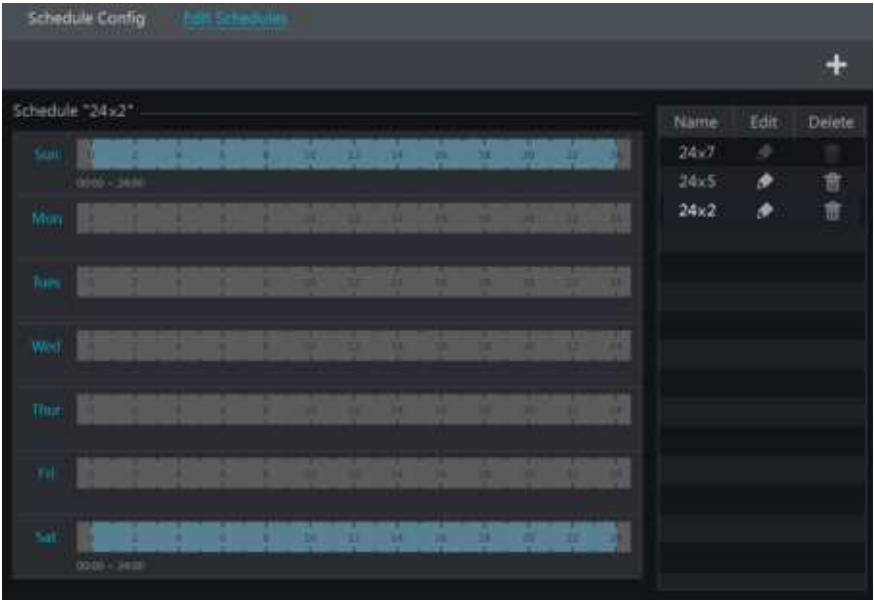
Click Start→Settings→Record→Stream Settings to go to “Sub Stream” interface. Set the encode, resolution, FPS, bitrate type, quality and max bitrate of sub-stream for each camera in the interface and then click “Apply” to save the settings.



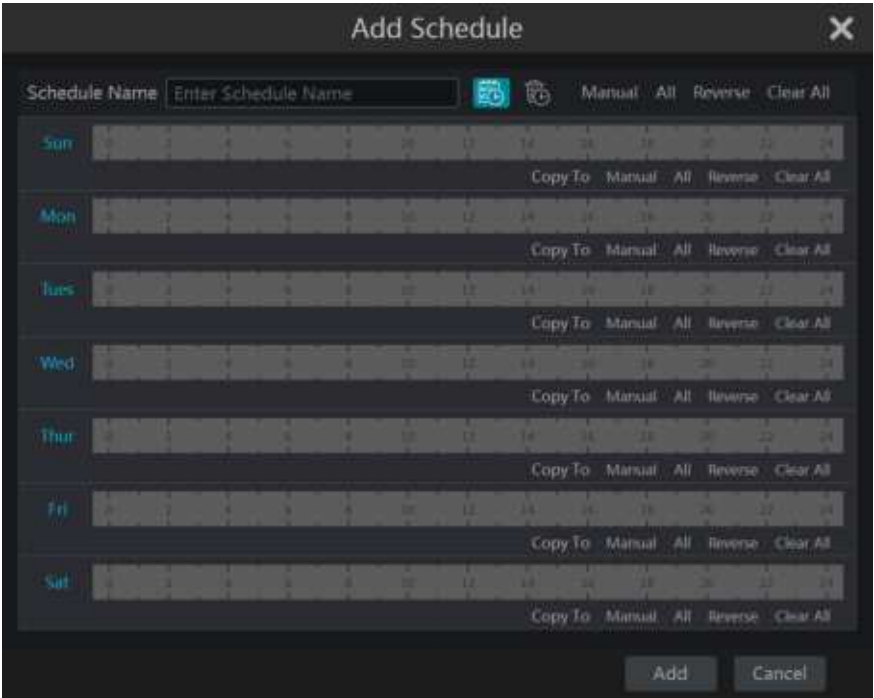
7.3 Schedule Setting

7.3.1 Add Schedule

Click Start→Settings→Record→Record Schedule→Edit Schedules to go to the interface as shown below. “24 x 7”, “24 x 5” and “24 x 2” are the default schedules; you cannot edit or delete “24 x 7” while “24 x 5” and “24 x 2” can be edited and deleted. Click the schedule name to display the detailed schedule information on the left side of the interface. The seven rows stand for the seven days in a week and each row stands for 24 hours in a day. Blue stands for the selected time and gray stands for unselected time.



Click to add a new schedule. Refer to the picture below.

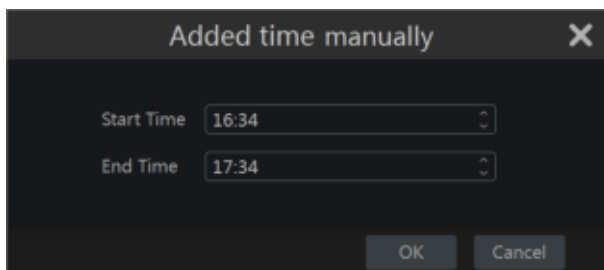


Set the schedule name and schedule time and then click “Add” to save the schedule. You can set day schedule or week schedule. : add button; : delete button.

➤ Set Day Schedule

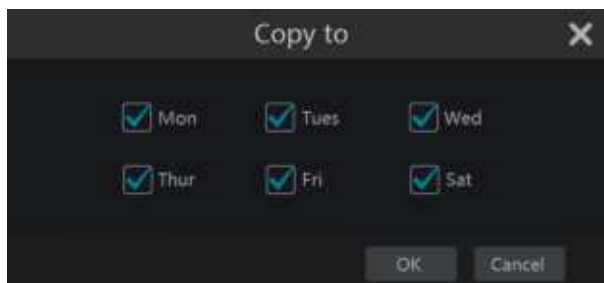
Click  and then drag the cursor on the time scale to set record time; click  and then drag the cursor on the time scale to delete the selected area.

You can manually set the record start time and end time. Click  or  and then click “Manual” on each day to pop up a window as shown below. Set the start and end time in the window and then click “OK” to save the settings.



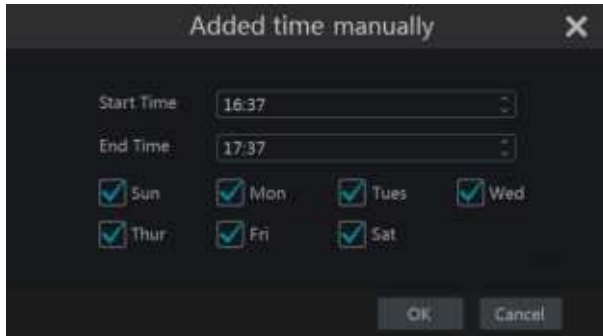
Click “All” to set all day recording; click “Reverse” to swap the selected and unselected time in a day; click “Clear All” to clear all the selected area in a day.

Click “Copy To” to copy the schedule of the day to other days. Refer to the picture below. Check the days in the window and then click “OK” to save the settings.



➤ Set Week Schedule

Click  or  and then click “Manual” beside  to set the week schedule. Refer to the picture below. Set the start and end time, check the days in the window and then click “OK” to save the settings.



Click “All” to set all week recording; click “Reverse” to swap the selected and unselected time in a week; click “Clear All” to clear all the selected area in a week.

7.3.2 Record Schedule Configuration

Click Start→Settings→Record→Record Schedule→Schedule Configuration to go to the interface as shown below. Set the schedule of sensor record, motion record and timed record. Click “None” in the drop-down menu to clear the schedule. Click “Apply” to save the settings.



Go to “Edit Schedules” interface and then click  to edit the schedule. The settings of “Edit Schedule” are similar to that of the “Add Schedule”. Click  to delete the schedule.

7.4 Record Mode

7.4.1 Manual Recording

Method One: Click  on the tool bar at the bottom of the live preview interface to enable recording of the camera.

Method Two: Go to live preview interface and then click the right-click menu “Manually Record On” in the camera window or click  on the tool bar under the camera window to start recording.

Note: Click Start→Settings→Record→Mode Settings and then set the manual record time in the interface. Click “Apply” to save the settings.

7.4.2 Timing Recording

Timing Recording: the system will record automatically according to the schedule.

Set the timing record schedule of each camera. See [7.3 Schedule Setting](#) for details.

7.4.3 Motion Based Recording

Motion Based Recording: the system will start motion based recording when the motion object appears in the setup schedule. The setup steps are as follows:

- ① Set the motion based recording schedule of each camera. See [7.3 Schedule Setting](#) for details.
- ② Enable the motion and set the motion area of each camera. See [9.2.1 Motion Configuration](#) for details.

The camera will start motion based recording once you finish the above settings.

7.4.4 Sensor Based Recording

- ① Set the sensor based recording schedule of each camera. See [7.3 Schedule Setting](#) for details.
- ② Set the NO/NC type of the sensor, enable the sensor alarm and then check and configure the “Record”. See [9.1 Sensor Alarm](#) for details.

7.5 Disk Management

Click Start→Settings→Disk→Disk Management to go to disk management interface. You can view the DVR's disk number and disk status and so on in the interface. Click “Formatting” button to format the HDD.

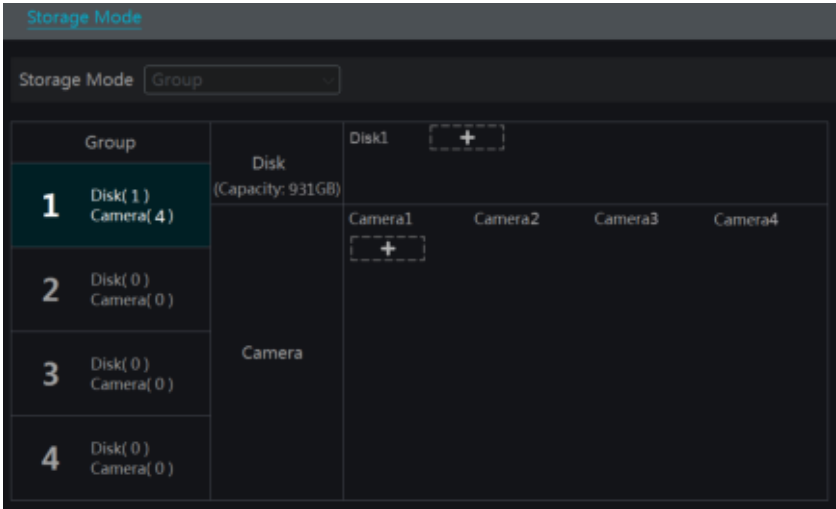
Disk	Capacity[GB]	Disk Serial No.	Disk Model	Status	Operation
Disk1	931	XXX	XXX	 RW	Formatting

Note: 1. The new HDD should be formatted for normal use.

2. For normal use of the HDD which has been used in other DVR, if the DVR is of the same model with the new DVR, please import the configuration file of the DVR to the new DVR or format the HDD; if the models of the two DVRs are different, please format the HDD.

7.5.1 Storage Mode Configuration

Click Start→Settings→Disk→Storage Mode to go to the interface as shown below.



There are all four disk groups. By using disk group, you can correspond the camera to disk (the record data of the camera in the group will be stored into the disks in the same group). The DVR with e-SATA interface supports e-SATA recording.

The added disks and cameras will be added into group one automatically. The disks and cameras in the groups can be deleted except group one (select a disk group and then click  on the top right corner of the added disk or camera to delete it from the group). The deleted disks and cameras will be moved into group one automatically.

Each group can add the disks and cameras from other groups. Each disk and camera can only be added into one group. Select a disk group and then click  in the disk or camera row to pop up a window. Check the disks or cameras in the window and then click “Add”.

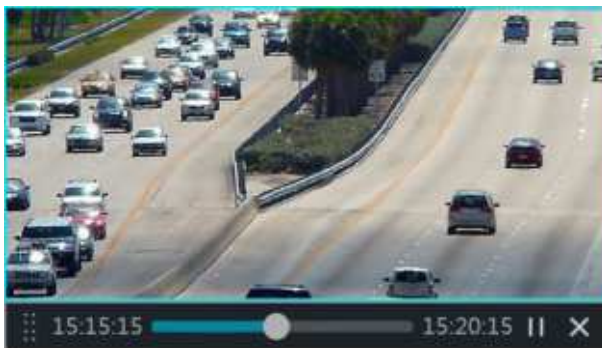
7.5.2 View Disk and S.M.A.R.T. Information

Click Start→Settings→Disk→View Disk Information to view the HDD information; click “S.M.A.R.T. Information” to view the working status of the HDD. Refer to the picture below.

8 Playback & Backup

8.1 Instant Playback

Click  on the tool bar at the bottom of the preview camera window to play back the record (click  on the tool bar at the bottom of the live preview interface to set the default playback time). Refer to the picture below. Drag the playback progress bar to change the playback time. You can also click the right-click menu “Instant Playback” in the camera window and then set the instant playback time to play back the record.



8.2 Playback Interface Introduction

Click  on the tool bar at the bottom of the live preview interface or click Start→Playback to go to the playback interface as shown below (click  on the tool bar at the bottom of the live preview interface to set the default playback time).



The added cameras will playback their records in the playback interface automatically. You can also add the playback camera manually. Click  in the playback window to pop up the “Add Camera” window. Check the cameras in the window and then click “Add” to add playback camera.

The buttons on the tool bar (area ①) at the bottom of the playback interface are introduced in the table below.

Button	Meaning
	Start button. Click it to pop up area ②.
	Full screen button. Click it to show full screen; click it again to exit the full screen.
	Screen mode button.
	OSD ON button. Click it to enable OSD; click  to disable OSD.
	Stop button.
	Rewind button. Click it to play video backward.
	Play button. Click it to play video forward.
	Pause button.
	Deceleration button. Click it to decrease the playing speed.
	Acceleration button. Click it to increase the playing speed.
	Previous frame button. It works only when the forward playing is paused in single screen mode.
	Next frame button. It works only when the forward playing is paused in single screen mode.
	Click  to step backward 30s and click  to step forward 30s.
	Event list/tag button. Click it to view the event record of manual/schedule/sensor/ motion and the tag information.
	Backup button. Drag the mouse on the time scale to select the time periods and cameras, and then click the button to back up the record.
	Backup status button. Click it to view the backup status.
	Back button. Click it to return.

Introduction of area ②:

Button	Meaning
 Search and Backup	Click it to go to record search interface; see 8.3 Record Search, Playback & Backup for details.
 Live Preview	Click it to go to live preview interface; see Chapter 5 Live Preview Introduction for details.

Click on the playback window to show the tool bar as shown in area ③; right click on the window to show the menu list. The tool bar and menu list are introduced in the table below.

Button	Menu List	Meaning
	--	Move tool. Click it to move the tool bar anywhere.
	Enable Audio	Click it to enable audio. You can listen to the camera audio by enabling audio.
	Snap	Click it to snap.
	Zoom In	Click it to go to the zoom in interface. The zoom in interface is similar to that of the camera window in the live preview interface. Click  to pause the record playing; click  to play the record. When the record is paused in forward playing mode, you can click  to view the previous frame and click  to view the next frame.
	Add Tag	Click it to add tag. You can play back the record by searching the added tag. Click it and then input the tag name in the popup window. Click "Add" to add tag.
	Switch Camera	Click it to switch the playback camera. Click it and then check the camera in the popup window. Click "OK" to change the camera.
	Close Camera	Click it to close the playback camera.

Introduction of area ④:

Click  to set the date; click  to set the time and then the playback camera will play the record from the time you set. You can check the record type as required for record playback; first you should click  on the tool bar at the bottom of the interface to clear all the playback camera, then check the record type (: manual record; : sensor based record; : motion based record; : schedule record) and finally click  in the playback window to add camera for playback (the record time scale will show the record data of the checked record type only after the above operations).

Introduction of the record time scale (area ⑤):

A tool bar will appear after moving the mouse to the record time scale. Click  /  to zoom the timeline; click  to recover the timeline to 24 hours' ratio. Drag the timeline or slide the scroll wheel of the mouse on the time scale to show the hidden time on the top or bottom of the timeline. You can also click  to show the hidden time on the top of the timeline or click  to show the hidden time on the bottom of the timeline. Drag the slider at the bottom of the time scale to show the hidden playback cameras.

The record time scale shows different record types with different colors. The green block stands for manual record, red block stands for sensor based record, yellow block stands for motion based record and blue block stands for schedule record. Click the record block to set the time and then the playback camera will play the record from the time you set.

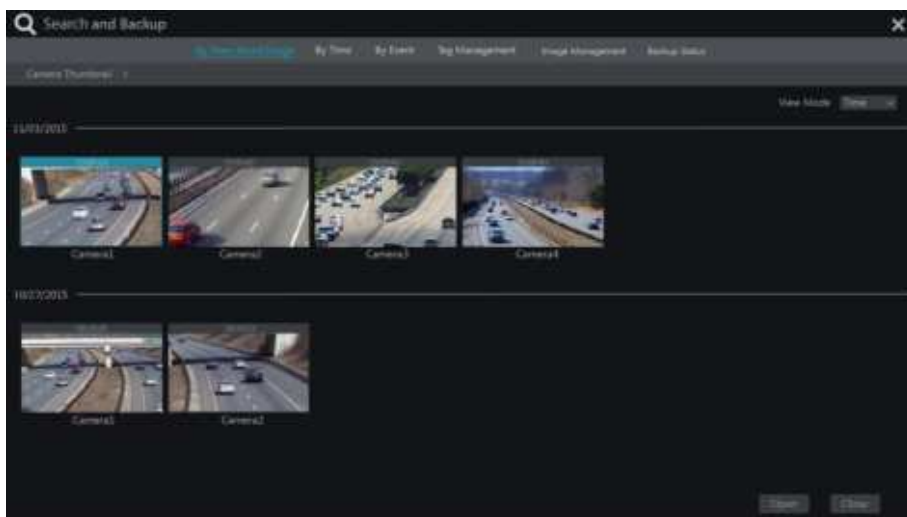
Drag the color block on the time scale to select the backup area and then right click the area or click  to pop up a backup information window. Click "Backup" button in the window to pop up the backup window. Select the device, backup path and backup format and then click "Backup" button to start the backup.

8.3 Record Search, Playback & Backup

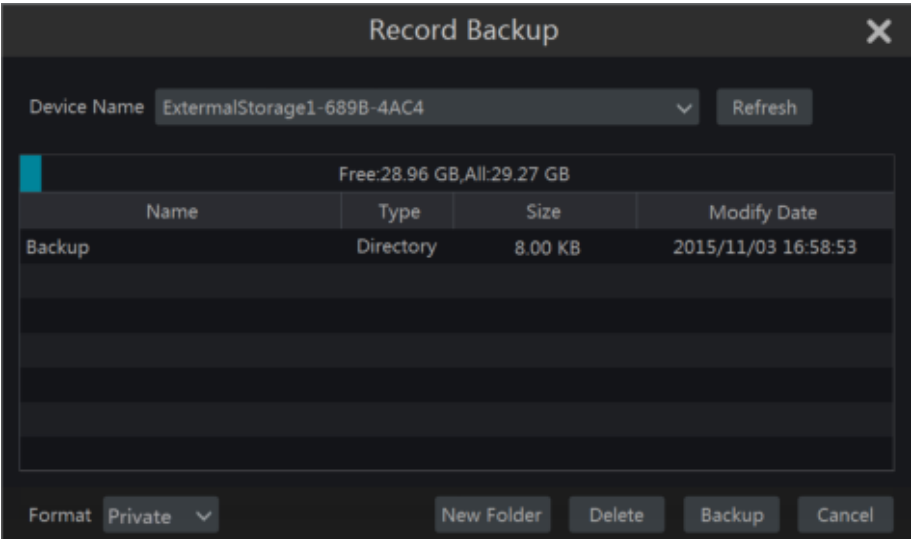
The record data and the snapped pictures can be backed up through network or USB (U disk or USB mobile HDD). The file system of the backup devices should be FAT32 format.

8.3.1 Search, Playback & Backup by Time-sliced Image

① Click Start→Search and Backup→By Time-sliced Image to go to “By Time-sliced Image” tab. There are two view modes: by time and by camera. In the time view mode, a maximum of 64 camera thumbnails can be showed. If the camera thumbnail number is more than 64, the cameras will be listed directly by their camera name, not the thumbnail. A maximum of 196 camera names can be listed. If the camera name number is more than 196, the time view mode will be disabled and the camera view mode will be available only.

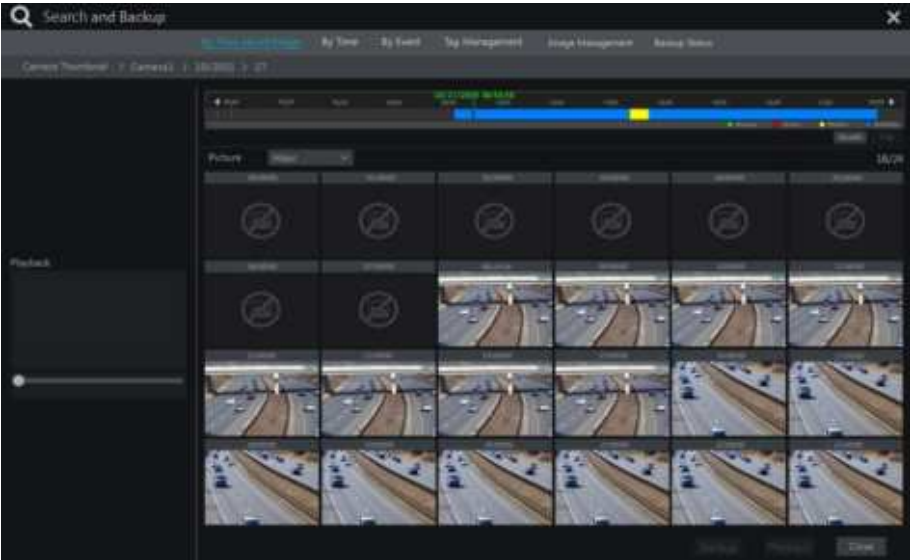


- ② Select one camera in the interface and then click “Open” button.
- ③ Click the image box to play the record in the small playback box on the left side of the interface (the box which has image inside indicates that the record data exist).
- ④ Refer to the picture below. Drag the color blocks on the time scale to select the record data and then click “Backup” button to pop up the “Record Backup” window as shown below. Select the device name, backup format and path and then click “Backup” button to start the backup.



Note: If you back up the record in private format, the system will back up a RPAS player to USB device automatically. The private format record can be played by RPAS player only.

- ⑤ Click “Playback” button to play the record in the playback interface (refer to [8.2 Playback Interface Introduction](#) for details). Click “Close” to close the interface.



Time Slice Mode Selecting:

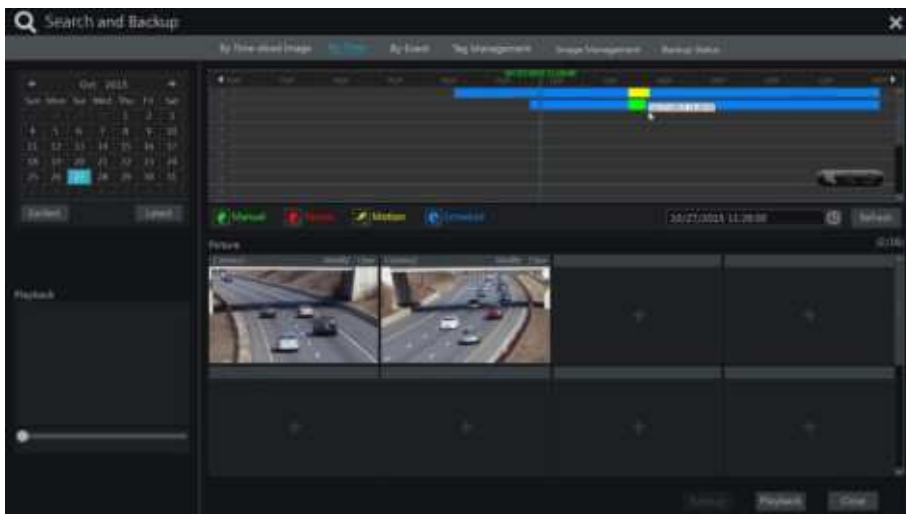
Method One: Click “Year”, “Month” or “Day” button under the record time scale to select the time slice mode. In “Day” mode, click ◀ / ▶ on the left/right side of the time scale to view the record of the last/next day; click “Minute” in the “Picture” option under the time scale to select “Minute” mode (in “Minute” mode, click the time scale to change the time of the 60 display windows) and click “Hour” to select “Hour” mode.

Method Two: Click ▶ beside “Camera Thumbnail” on the left top corner of the interface to select the time slice mode.

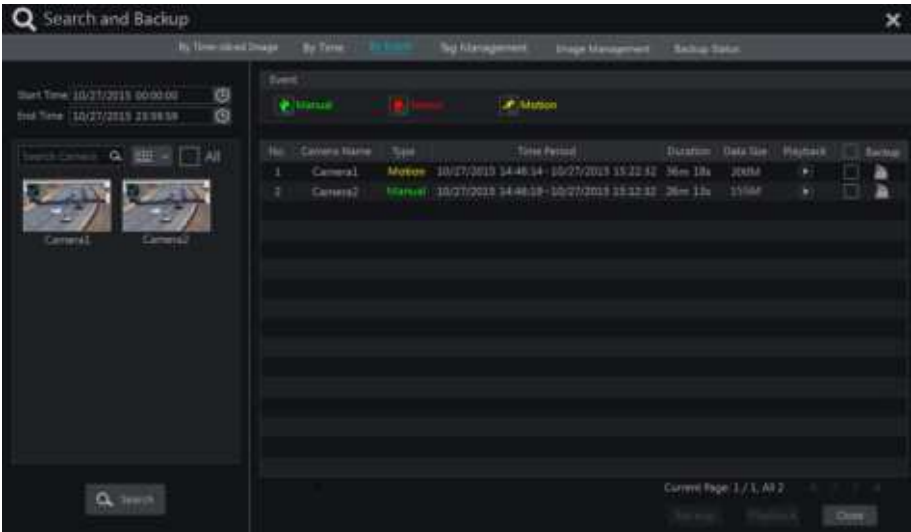
Method Three: Right-click the mouse on any area of the time-sliced interface to go back to the upper interface.

8.3.2 Search, Playback & Backup by Time

- ① Click Start→Search and Backup→By Time to go to “By Time” tab as shown below.
- ② Click + on the bottom of the interface to add playback camera. Click “Modify” on the top right corner of the camera window to change the camera and click “Clear” to remove the camera.
- ③ Click the camera window to play the record in the small playback box on the left side of the interface. You can set the date on the top left of the interface, check the event type as required and click the time scale or click ⌚ under the time scale to set the time. The camera window will play the record according to the time and event type you set.
- ④ Drag the color blocks on the time scale to select the record data and then click “Backup” button for record backup. Click “Playback” button to play the record in the playback interface.

**8.3.3 Search, Playback & Backup by Event**

- ① Click Start→Search and Backup→By Event to go to “By Event” tab as shown below.

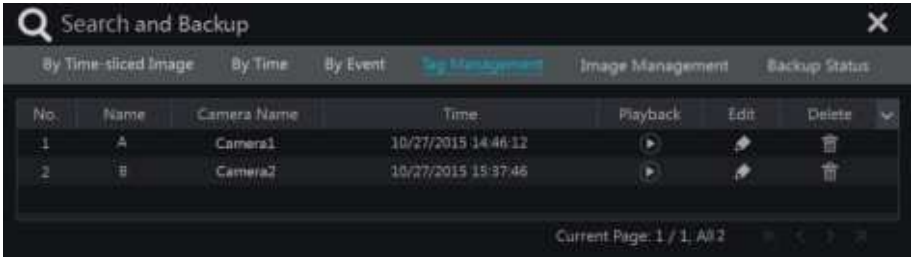


- ② Check the event type in the interface as required.
- ③ Click  to set the start time and end time on the top left of the interface.
- ④ Check cameras on the left side of the interface or check “All” to select all the cameras and then click  to search the record. The searched record will be displayed in the list.
- ⑤ Click  in the list to play back the record in the popup window. Click  to backup one record data or check multiple record data in the list and then click “Backup” button for record batch backup.
- ⑥ Select one record data in the list and then click “Playback” button to play the record in the playback interface.

8.3.4 Search & Playback by Tag

Only if you add the tags can you play the record by tag search. Click Start→Playback to go to the playback interface and then click  on the bottom of the camera window to add tag when you want to mark the playback time point of the selected camera.

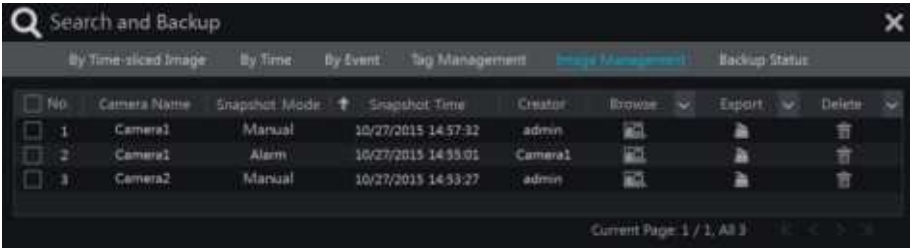
Click Start→Search and Backup→Tag Management to go to “Tag Management” tab.



Click  in the interface to play the record. Click  to edit the tag name. Click  to delete the tag.

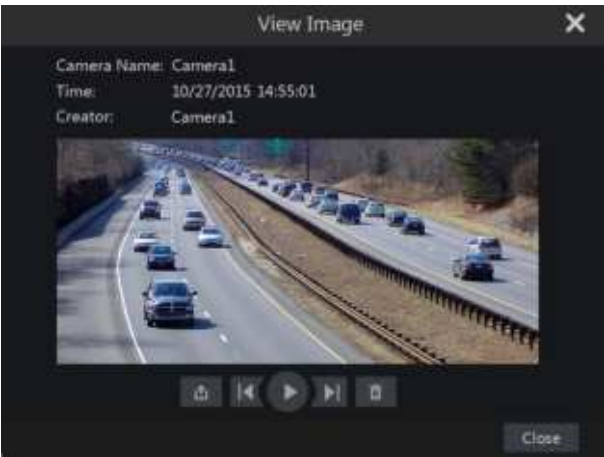
8.3.5 Image Management

Click Start→Search and Backup→Image Management to go to “Image Management” tab. The system will display all the snapped images automatically in the list.



Click  to delete the image. Click  to pop up the “Export” window. Select the device name and save path in the window and then click “Save” button.

Click  to pop up the “View Image” window. Click  to export the image. Click  to view the previous image; click  to view the next image; click  to delete the image; click  to play all the images.



8.3.6 View Backup Status

Click Start→Search and Backup→Backup Status or click  on the tool bar at the bottom of the playback interface to view the backup status.

9 Alarm Management

9.1 Sensor Alarm

To complete the entire sensor alarm settings, you should enable the sensor alarm of each camera and then set up the alarm handling of each camera.

- ① Click Start→Settings→Alarm→Sensor Alarm to go to the following interface.



- ② Select the alarm type (NO or NC) according to trigger type of the sensor.
- ③ Enable the sensor alarm of each camera.
- ④ Check the “Record”, “Snap”, “Alarm-out” and “Preset” and enable or disable the “Buzzer”, “Pop-up Video”, “Pop-up Message Box” and “E-mail” as required.
- ⑤ Click “Apply” to save the settings.

The configuration steps of the above mentioned alarm linkages are as follows.

Record: check it and then the “Trigger Record” window will pop up automatically (you can also click “Configure” button to pop up the window). Select camera on the left side and then click  to set the camera as the trigger camera. Select trigger camera on the right side and then click  to cancel the trigger camera. Click “OK” button to save the settings. The trigger cameras will record automatically when the sensor alarm is triggered.

Snap: check it and then the “Trigger Snapshot” window will pop up automatically. Configure the trigger camera in the window. The trigger cameras will snap automatically when the sensor alarm is triggered.

Alarm-out: check it and then the “Trigger Alarm-out” window will pop up automatically. Configure the trigger alarm-out in the window. The system will trigger the alarm-out automatically when the sensor alarm is triggered. You need to set the delay time and the schedule of the alarm outputs. See [9.4.1 Alarm-out](#) for details.

Preset: check it and then the “Trigger Preset” window will pop up automatically. Configure the trigger preset of each camera. To add presets, please see [6.2 Preset Setting](#) for details.

Buzzer: if enabled, the system will begin to buzz when the sensor alarm is triggered. To set the delay time of the buzzer, please see [9.4.4 Buzzer](#) for details.

Pop-up Video: After camera setting, the system will pop up the corresponding video automatically when the sensor alarm is triggered. To set the duration time of the video, please see [9.4.3 Display](#) for details.

Pop-up Message Box: if enabled, the system will pop up the corresponding alarm message box automatically when the sensor alarm is triggered. To set the duration time of the message box, please see [9.4.3 Display](#) for details.

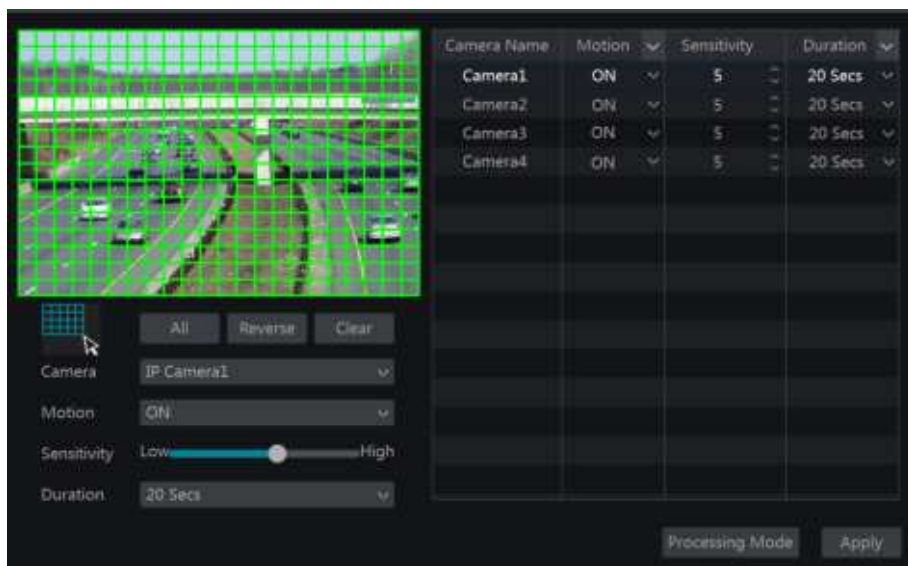
E-mail: if enabled, the system will send an e-mail when the sensor alarm is triggered. Before you enable the email, please configure the recipient's e-mail address first (see [11.1.5 E-mail Configuration](#) for details).

9.2 Motion Alarm

Motion Alarm: when the motion object appears in the specified area, it will trigger the alarm. You should enable the motion of each camera first and then set the alarm handling of the camera to complete the whole configuration of the motion alarm.

9.2.1 Motion Configuration

- ① Click Start→Settings→Camera→Motion to go to the following interface.



- ② Select the camera, enable the motion and set the sensitivity and duration of the camera.

Sensitivity: the higher the value is, the more sensitive it is to motion. You should adjust the value according to the practical conditions since the sensitivity is influenced by color and time (day or night).

Duration: it refers to the interval time between the adjacent motion detections. For instance, if the duration time is set to 10 seconds, once the system detects a motion, it will go to alarm and would not detect any other motion (specific to camera) in 10 seconds. If there is another motion detected during this period, it will be considered as continuous movement; otherwise it will be considered as a single motion.

- ③ Drag the camera image to set the motion area. You can set more than one motion area. Click “All” to set the whole camera image as the motion area. Click “Reverse” to swap the motion area and the non-motion area. Click “Clear” to clear all the motion areas.
- ④ Click “Apply” to save the settings. Click “Processing Mode” to go to the alarm handling configuration interface of the motion alarm.

9.2.2 Motion Alarm Handling Configuration

- ① Click Start→Settings→Alarm→Motion Alarm to go to the following interface.

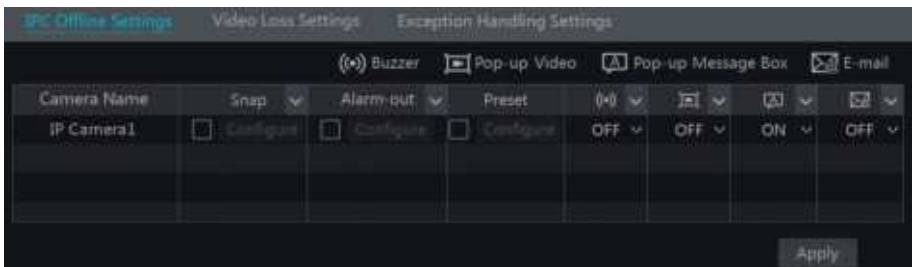


- ② Enable or disable “Snap”, “Alarm-out”, “Preset”, “Buzzer”, “Pop-up Video” and “E-mail”. The alarm handling setting of motion alarm is similar to that of the sensor alarm (see [9.1 Sensor Alarm](#) for details).
- ③ Click “Apply” to save the settings. You can click “Motion Settings” to go to the motion configuration interface.

9.3 Exception Alarm

9.3.1 IPC Offline Settings

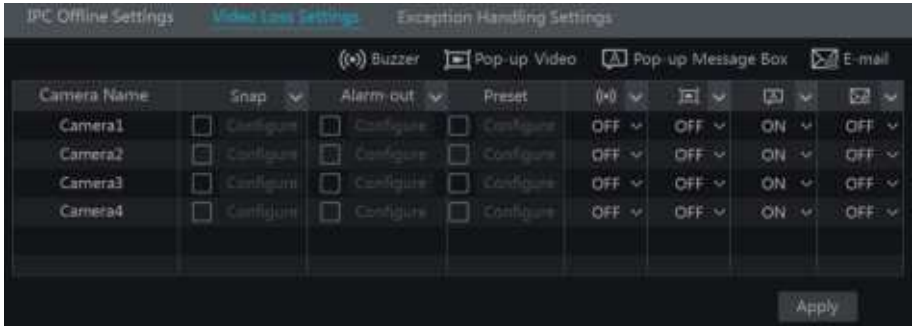
- ① Click Start→Settings→Alarm→Exception→IPC Offline Settings to go to the interface as shown below.



- ② Enable or disable “Snap”, “Alarm-out”, “Preset”, “Buzzer”, “Pop-up Video”, “Pop-up Message Box” and “E-mail”. The IPC Offline Settings are similar to that of the sensor alarm (see [9.1 Sensor Alarm](#) for details).
- ③ Click “Apply” to save the settings.

9.3.2 Video Loss Settings

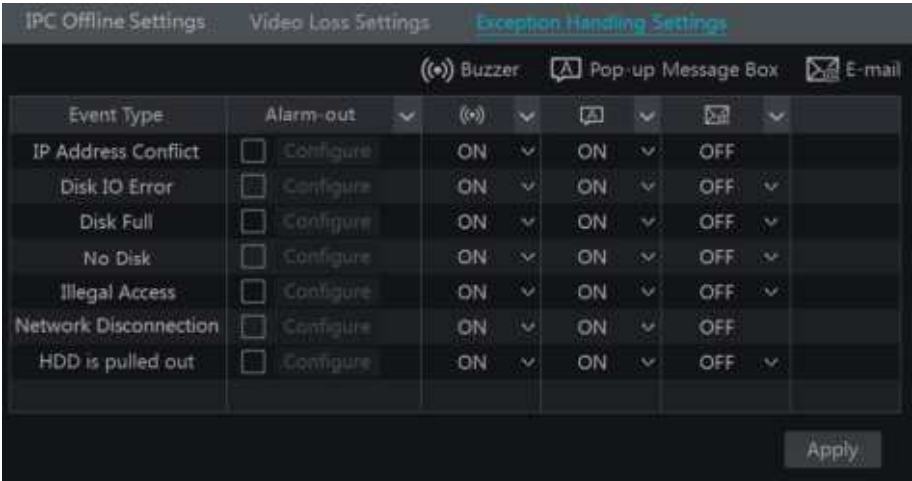
- ① Click Start→Settings→Alarm→Exception→Video Loss Settings to go to the interface as shown below.



- ② Enable or disable “Snap”, “Alarm-out”, “Preset”, “Buzzer”, “Pop-up Video”, “Pop-up Message Box” and “E-mail”. The Video Loss Settings are similar to that of the sensor alarm (see [9.1 Sensor Alarm](#) for details).
- ③ Click “Apply” to save the settings.

9.3.3 Exception Handling Settings

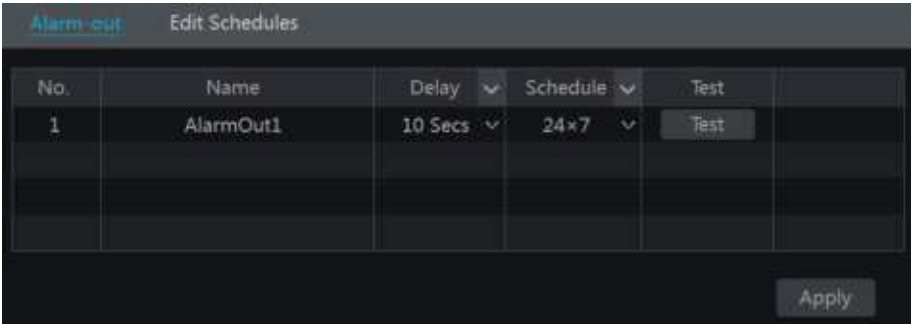
- ① Click Start→Settings→Alarm→Exception→Exception Handling Settings to go to the interface as shown below.
- ② Enable or disable “Alarm-out”, “Buzzer”, “Pop-up Message Box” and “E-mail”. The exception handling settings are similar to that of the sensor alarm (see [9.1 Sensor Alarm](#) for details).
- ③ Click “Apply” to save the settings.



9.4 Alarm Event Notification

9.4.1 Alarm-out

- ① Click Start→Settings→Alarm→Event Notification to go to the following interface.



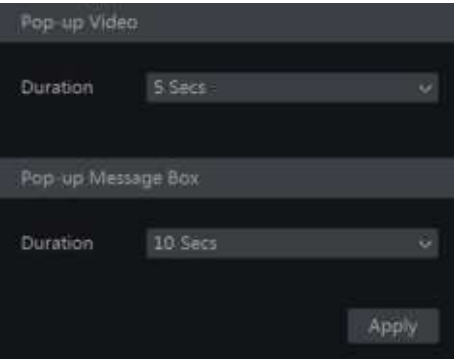
- ② Set the delay time and the schedule of each alarm-out. You can click “Edit Schedules” to edit the schedules (see [7.3.1 Add Schedule](#) for details).
- ③ Click “Apply” to save the settings. You can click “Test” to test the alarm output.

9.4.2 E-mail

Click Start→Settings→Alarm→Event Notification→E-mail to go to the e-mail configuration interface. Set the e-mail address of the recipients. See [11.1.5 E-mail Configuration](#) for details.

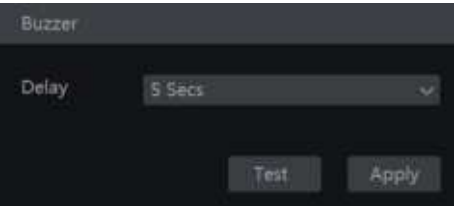
9.4.3 Display

Click Start→Settings→Alarm→Event Notification→Display to go to the display configuration interface. Set the duration time of the pop-up video and the pop-up message box. Click “Apply” to save the settings.



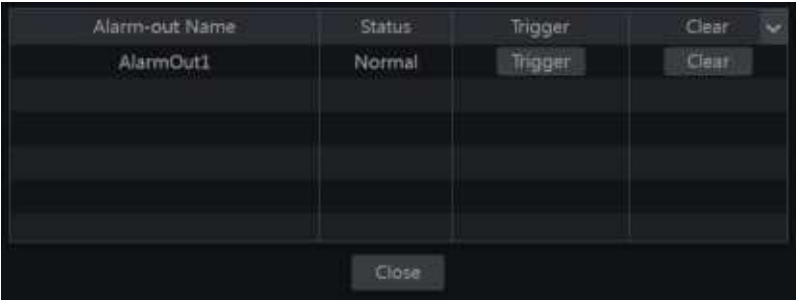
9.4.4 Buzzer

Click Start→Settings→Alarm→Event Notification→Buzzer to go to the buzzer configuration interface. Set the delay time of the buzzer and then click “Apply” to save the setting. You can click “Test” to test the buzzer.



9.5 Manual Alarm

Click  on the tool bar at the bottom of the live preview interface to pop up a window. Click “Trigger” to start alarm. Click “Clear” to stop alarm.

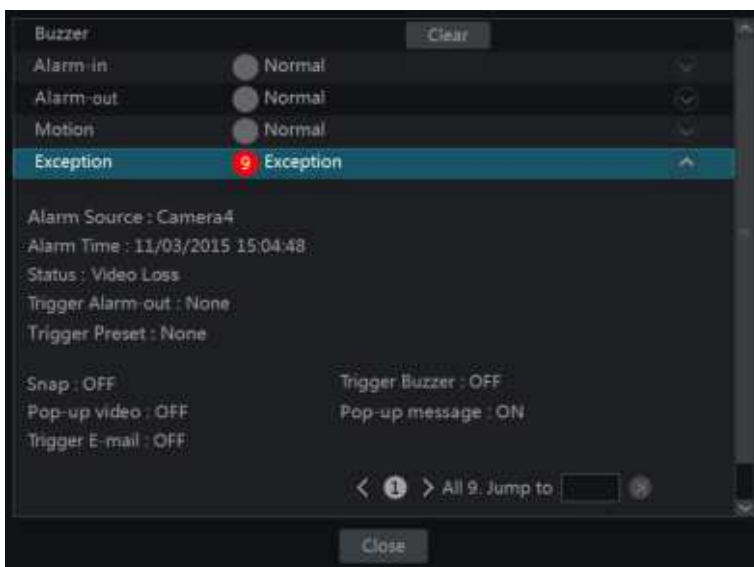


9.6 View Alarm Status

Click Start→Settings→Alarm→Alarm Status or click  on the tool bar at the bottom of the live preview interface to view the alarm status.



Click “Clear” button to stop the buzzer when the buzzer alarm happens. Click  to view the detail information as shown below.

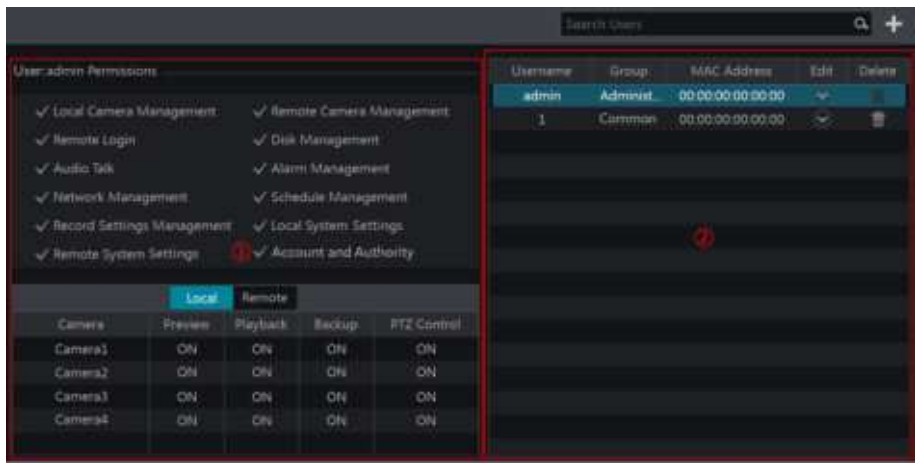


If the exception information is more than one page, you can input the number in the box and then click  to jump to the specified page. Click  /  to view the exception alarm information in the previous/next page. Click  to play the alarm record.

10 Account & Permission Management

10.1 Account Management

Click Start→Settings→Account and Authority→Account→Edit User to go to the interface as shown below.



Area ① displays the user permissions. Area ② displays the user list. Click the user in the list to display its user permissions in area ①.

There are three default permission groups (“Administrator”, “Advanced” and “Common”) available when adding accounts. You can manually add new permission group (see [10.3.1 Add Permission Group](#) for details).

Only **admin** and the users that have the “Account and Authority” permission can manage the system’s accounts. Group “Administrator” owns all the permissions displayed in area ① except “Account and Authority” and its permissions cannot be changed while the permissions of “Advanced” and “Common” can be changed.

10.1.1 Add User

① Click Start→Settings→Account and Authority→Account→Add User or click  beside the search box to pop up the window as shown below.

Add User

Username

Enter Username

Password

Enter Password

Confirm Password

Enter Password

☐ Display Password

E-mail

Group

Administrator

Bind MAC

00 00 00 00 00 00

Remark

Add

Cancel

② Set the username, password and group. The e-mail address, MAC address and the remark are optional (input the MAC address after you check it). Click “Add” to add the user.

10.1.2 Edit User

Click Start→Settings→Account and Authority→Account→Edit User and then click  in the user list or double click the user to edit the user information. Click  to delete the user (the user *admin* cannot be deleted).

Username	Group	MAC Address	Edit	Delete
admin	Administ...	00:00:00:00:00:00		
Modify Password Edit User Edit Security Question				
1	Common	00:00:00:00:00:00		
Edit User Recover Password				

➤ Edit Security Question

You can set password security only for *admin*. Click “Edit Security Question” and then set questions and answers in the popup window. If you forget the password for *admin*, please refer to Q4 in [Appendix A FAQ](#) for details. The passwords of other users can be recovered by *admin* or the users that have the “Account and Authority” permission.

➤ Modify Password

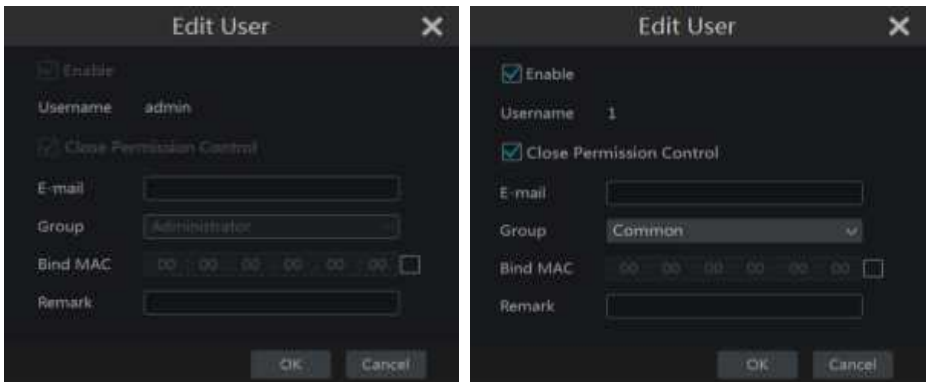
Only the password of *admin* can be modified. Click “Modify Password” to pop up a window. Input the current password and then set new password. Click “OK” to save the settings.

➤ Recover Password

Click “Recover Password” to reset the password to **123456**.

➤ Edit User

Click “Edit User” to pop up the window as shown below. The **admin** is enabled, its permission control is closed and permission group cannot be changed by default. You can enable or disable other users (if disabled, the user will be invalid), open or close their permission control (if closed, the user will get all the permissions which **admin** has) and set their permission groups. Click “OK” to save the settings.



10.2 User Login & Logout

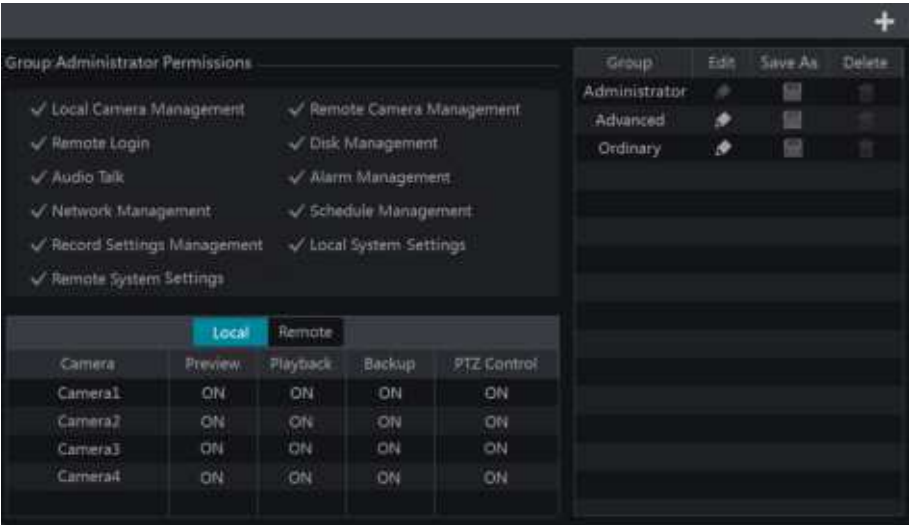
Login: Click Start→Login or directly click the preview interface and then select username and enter the password in the popup window. Click “Login” button to log in the system.

Logout: Click Start→Logout or click Start→Shutdown to pop up the “Shutdown” window. Select “Logout” in the window and then click “OK” button to log out the system.

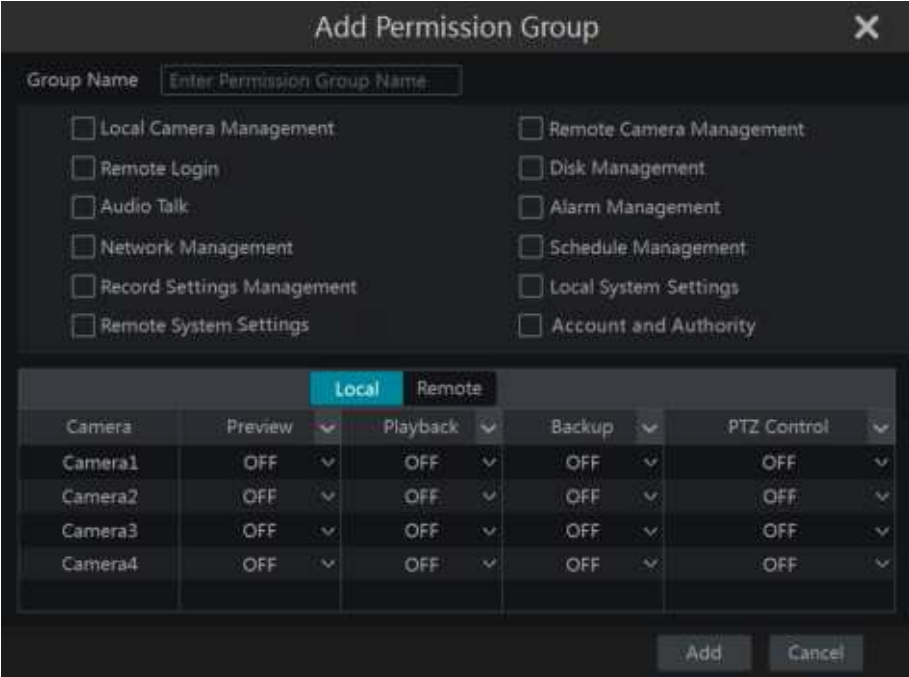
10.3 Permission Management

10.3.1 Add Permission Group

Click Start→Settings→Account and Authority→Account→Edit Permission Group to go to the interface as shown below.



Click  to add permission group. Set the group name, check the permissions as required and then set the “Local” and “Remote” permissions. Click “Add” to save the settings.

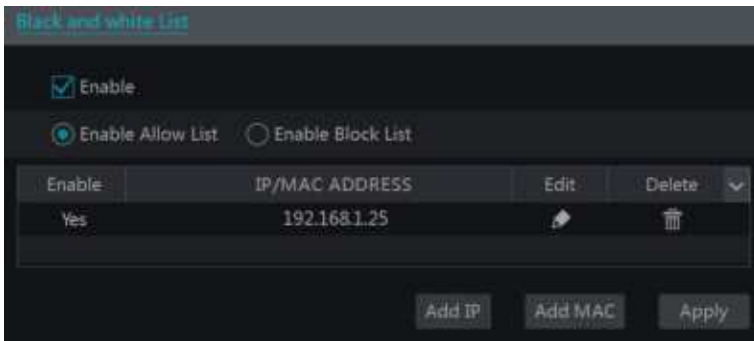


10.3.2 Edit Permission Group

Go to “Edit Permission Group” interface and then click  in the group list to edit the permission group (the operations of the “Edit Permission Group” are similar to that of the “Add Permission Group”, please see [10.3.1 Add Permission Group](#) for details). Click  to save the group as another group. Click  to delete the permission group. The three default permission groups (“Administrator”, “Advanced” and “Common”) cannot be deleted.

10.4 Black and White List

- ① Click Start→Settings→Account and Authority→Security to go to the following interface.



- ② Check “Enable” and then choose “Enable Allow List” or “Enable Block List” (the PC client of which the IP address is in the allow list can access DVR remotely while the PC client in the block list cannot).
- ③ Add IP/IP segment/MAC. Click “Add IP” or “Add MAC” button and then check “Enable” in the popup window (only if you check it can the IP/IP segment/MAC you add be effective). Enter the IP/IP segment/MAC and then click “OK” button. In the above interface, click  to edit IP/IP segment/MAC, click  to delete it. Click “Apply” to save the settings.

10.5 View Online User

Click Start→Settings→Account and Authority→User Status to view the online user information (you can view the online user name, login type, IP address and login time; click  to pop up a window showing the preview occupied channel number and playback occupied channel number).

11 Device Management

11.1 Network Configuration

11.1.1 TCP/IP Configuration

Click Start→Settings→Network→TCP/IP to go to the following interface. Check “Obtain an IPv4 address automatically”, “Obtain an IPv6 address automatically” and “Obtain DNS automatically” to get the network addresses automatically, or manually input the network addresses. You can modify the MTU value according to the network condition (MTU, Maximum Transmission Unit, can be modified according to network condition for higher network transmission efficiency). Click “Apply” to save the settings.

IP Address Settings

Ethernet Port 1 (Online)

☐ Obtain an IPv4 address automatically

Address

Subnet Mask

Gateway

MTU

☐ Obtain DNS automatically

Preferred DNS

Alternate DNS

☐ Obtain an IPv6 address automatically

Address

Mask Length

Gateway

Apply

11.1.2 Port Configuration

Click Start→Settings→Network→Port to go to the interface as shown below. Input the HTTP port, server port and RTSP port of the DVR, enable “Watch video via anonymous login (not need user name and password)” as required and then click “Apply” button to save the settings.

Port

HTTP Port

Server Port

RTSP Port

☐ Watch video via anonymous login (not need user name and password)

Apply

HTTP Port: the default HTTP port of the DVR is 80. The port number can be changed to others like 81. The port is mainly used to IE remote access. If you want to access the DVR through IE, you should input IP address plus HTTP port in the IE address bar like `http://192.168.11.61:81`.

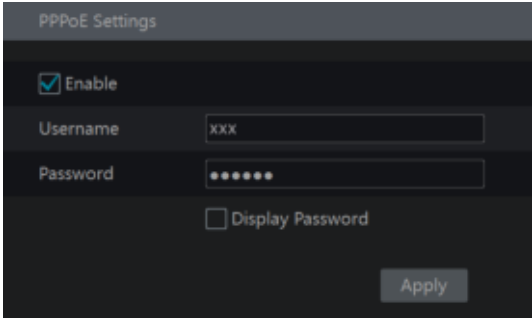
Server Port: the default server port of the DVR is 6036. The server port number can be changed as required. The port is mainly used in network video management system.

RTSP Port: RTSP real-time stream protocol can be used to control the sending of real-time data. By media player which supports the RTSP real-time stream protocol, you can view the live images synchronously. The default RTSP port is 554 and it can be changed as required.

Note: The HTTP port and server port of the DVR should be mapped to the router before you access the DVR via WAN.

11.1.3 PPPoE Configuration

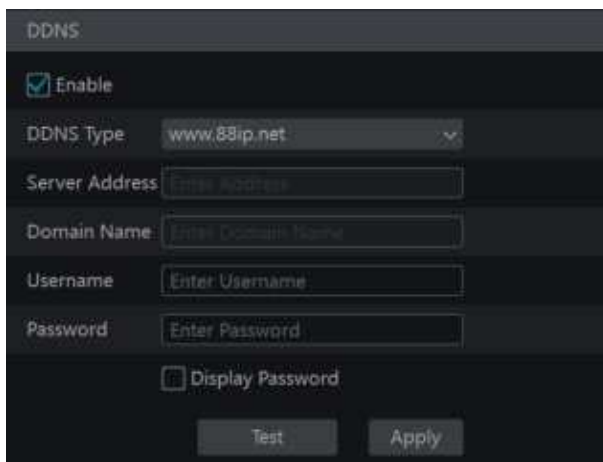
Click Start→Settings→Network→PPPoE to go to the interface as shown below. Check “Enable” in “PPPoE Settings” and then input the username and password obtained from the dealer. Click “Apply” to save the settings.



11.1.4 DDNS Configuration

The DDNS is used to control the dynamic IP address through domain name. You can access to the DVR easily if the DDNS is enabled and configured.

Click Start→Settings→Network→DDNS to go to the interface as shown below.



Check “Enable” and then select the DDNS type. Input the server address, domain name, username and password according to the selected DDNS type. Click “Test” to test the effectiveness of the input information. Click “Apply” to save the settings.

You will have to input the server address and domain name if some DDNS types are selected. Go to the relative DNS website to register domain name and then input the registered domain information here). Now we take www.dvrdydns.com for example.

- ① Input www.dvrdydns.com in the IE address bar to visit its DNS website.



- ② Click **Registration** button to go to the interface as shown below. Set the DDNS account information (username, password and so on) and then click **Submit** button to save the account.

DDNS account creation.

NEW USER REGISTRATION	
USER NAME	
PASSWORD	?
PASSWORD CONFIRM	
FIRST NAME	
LAST NAME	
SECURITY QUESTION.	My first phone number. ▾
ANSWER	
CONFIRM YOU'RE HUMAN	7+1= New Captcha Solve the problem above.
Submit Reset	

Already have an account? [Click here to logon.](#)

- ③ Create domain name and then click **Request Domain**.

Domain Name Creation
Enter a new domain name below.

.....

You must create a domain name to continue.

Domain name must start with (a-z, 0-9), must be least 3 char!. Cannot end or start, but may contain a hyphen and is not case-sensitive.

. dvrddns.com ▾ Request Domain

- ④ After you successfully request your domain name, you will see your domain name information in the list.

My Domains

Your domain names are listed below. Choose create new domain to add additional domain names.

.....

Your domain was successfully created.

Search by Domain.

Click a name to edit your domain settings.

NAME	STATUS	DOMAIN
REDSUNSHINE		redsunsunshine.dvrddns.com

Last Update: *Not yet updated* IP Address: 210.21.229.138

Create additional domain names

[1]

- ⑤ Click Start→Settings→Network→DDNS to go to DDNS setting interface. Enable DDNS and then select the **www.dvrddns.com** DDNS type. Input the registered username, password and domain name and then click “Apply”.
- ⑥ Map the IP address and HTTP port in the router (you can skip this step if UPnP function is enabled).
- ⑦ Input the registered domain name plus HTTP port like **http://www.xxx.dvrddns.com:81** in the IE address bar and then press Enter key to go to the IE client.

11.1.5 E-mail Configuration

Click Start→Settings→Network→E-mail to go to the following interface. Input the sender’s e-mail address, name, password, SMTP server and SMTP port (you can click “Default” to reset the SMTP port to the default value) and then enable or disable the SSL and attaching image. Click “Test” to pop up a window. Input the e-mail address of the recipient in the window and then click “OK” button. The e-mail address of the sender will send an e-mail to the recipient. If the e-mail is sent successfully, it indicates that the e-mail address of the sender is configured correctly. Click “Apply” to save the settings.

Sender

Email Address

Name

Password

SMTP Server

SMTP Port

SSL ▼

Attaching Image ▼

Click “Edit Recipient” to go to the following interface.

E-mail Notification

Sender

No.	Recipients	Schedule	Delete ▼
1	abc@gmail.com	24x7 ▼	
2	xyz@gmail.com	24x5 ▼	

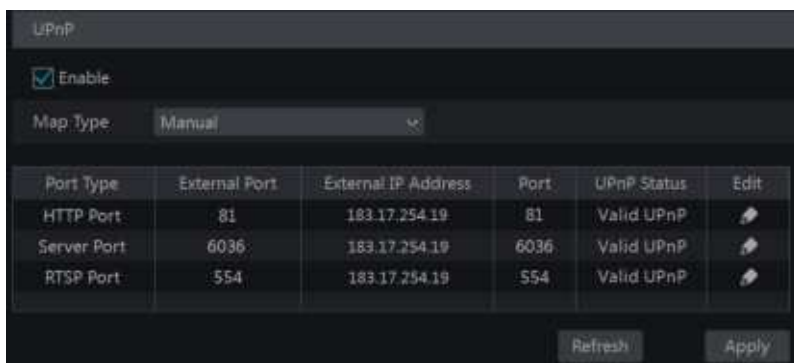
Click “Add” and then input the recipient’s e-mail address and select the schedule (if a schedule is selected, the system will send the alarm email and the recipient will receive it only in the selected schedule time) in the popup window. Click “Add” in the window to add the recipient. You can also change the recipient’s receiving schedule by clicking ▼ in the “Schedule” column. Click to delete the recipient in the list. Click “Apply” to save the settings. Click “Edit Sender” to go to the e-mail configuration interface of the sender.

11.1.6 UPnP Configuration

By UPnP you can access the DVR through IE client which is in WAN via router without port mapping.

- ① Click Start→Settings→Network→UPnP to go to the following interface.
- ② Make sure the router supports UPnP function and the UPnP is enabled in the router.
- ③ Set the DVR's IP address, subnet mask and gateway and so on corresponding to the router.
- ④ Check “Enable” in the interface as shown below and then click “Apply” button.

Click “Refresh” button to refresh the UPnP status. If the UPnP status were still “Invalid UPnP” after refreshing it for many times, the port number would be wrong. Please change the mapping type to “Manual” and then click  to modify the port until the UPnP status turns to “Valid UPnP”. Refer to the following picture. You can view the external IP address of the DVR. Input the external IP address plus port in the IE address bar to access the DVR such as <http://183.17.254.19:81>.



UPnP

☒ Enable

Map Type: Manual

Port Type	External Port	External IP Address	Port	UPnP Status	Edit
HTTP Port	81	183.17.254.19	81	Valid UPnP	
Server Port	6036	183.17.254.19	6036	Valid UPnP	
RTSP Port	554	183.17.254.19	554	Valid UPnP	

Refresh Apply

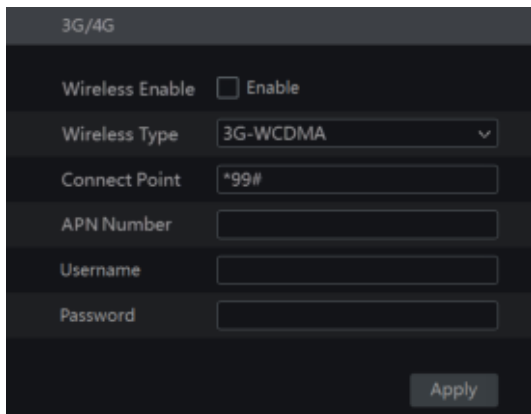
11.1.7 NAT Configuration

Click Start→Settings→Network→NAT to go to the interface for NAT configuration. Check “Enable” and then select the NAT server address (***nat.autonat.com*** by default). Click “Apply” to save the settings.

You can scan the QRCode through mobile client which is installed in the mobile phone or PAD to log in the mobile client instantly.

11.1.8 Wireless Configuration

Click Start→Settings→Network→Wireless to go to the interface as shown below. Check “Enable”(the DVR will connect to the internet automatically via dial-up if wireless is enabled), select the wireless type(3G-WCDMA, 3G-EVDO and 4G are optional), input the connect point, APN number, username and password according to different network operators and finally click “Apply” button to save the settings.

A screenshot of a network configuration interface. At the top, it says "3G/4G". Below that, there is a "Wireless Enable" section with a checkbox and the word "Enable". Underneath is a "Wireless Type" dropdown menu currently set to "3G-WCDMA". Below the dropdown are several text input fields: "Connect Point" (containing "*99#"), "APN Number", "Username", and "Password". At the bottom right, there is an "Apply" button.

3G/4G	
Wireless Enable	☐ Enable
Wireless Type	3G-WCDMA
Connect Point	*99#
APN Number	
Username	
Password	
Apply	

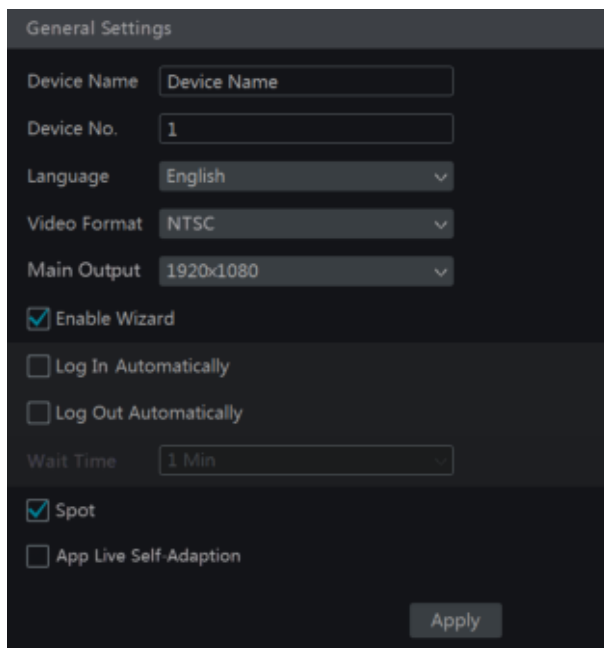
11.1.9 View Network Status

Click Start→Settings→Network→Network Status to view the network status or click  on the tool bar at the bottom of the live preview interface to view network status conveniently.

11.2 Basic Configuration

11.2.1 Common Configuration

Click Start→Settings→System→Basic→General Settings to go to the following interface. Set the device name, device No., language, video format and main output resolution. Enable or disable wizard, “Log In Automatically”, “Log Out Automatically” (if checked, you can set the wait time) and “App Live Self-Adaption”. Click “Apply” to save the settings.



The screenshot shows the 'General Settings' window of a DVR. It contains the following fields and options:

- Device Name:** A text input field with the placeholder 'Device Name'.
- Device No.:** A text input field with the value '1'.
- Language:** A dropdown menu showing 'English'.
- Video Format:** A dropdown menu showing 'NTSC'.
- Main Output:** A dropdown menu showing '1920x1080'.
- Enable Wizard:** A checked checkbox.
- Log In Automatically:** An unchecked checkbox.
- Log Out Automatically:** An unchecked checkbox.
- Wait Time:** A dropdown menu showing '1 Min'.
- Spot:** A checked checkbox.
- App Live Self-Adaption:** An unchecked checkbox.
- Apply:** A button at the bottom right.

Device Name: The name of the device. It may display on the client end or CMS that help user to recognize the device remotely.

Video Format: Two modes: PAL and NTSC. Select the video format according to the camera.

Spot: If the DVR supports spot output, you should enable spot output. Connect the spot output device to the DVR and then set the spot output (see [5.2.4 Spot View](#) for details).

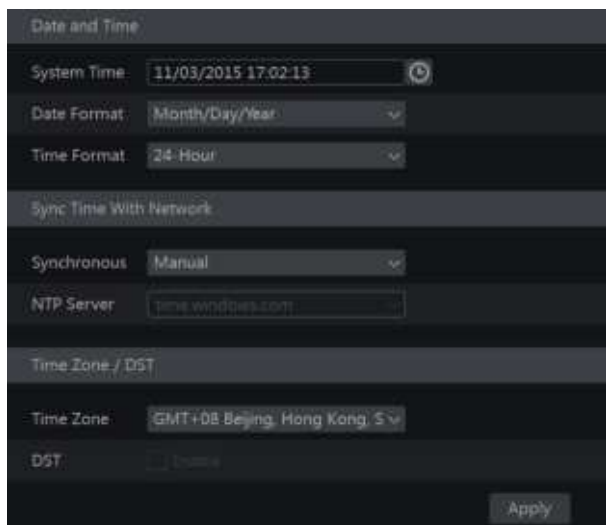
11.2.2 Date and Time Configuration

Click Start→Settings→System→Basic→Date and Time to go to the interface as shown below. Set the system time, date format, time format and time zone of the DVR. The default time zone is GMT+08 Beijing, Hong Kong, Shanghai, Taipei. If the selected time zone includes DST, the DST of the time zone will be checked by default. Click “Apply” to save the settings.

You can manually set the system time or synchronize system time with network through NTP.

Manual: select “Manual” in the “Synchronous” option and then click  after the “System Time” option to set the system time.

NTP: select “NTP” in the “Synchronous” option and then input the NTP server.



11.3 Factory Default

Click Start→Settings→System→Maintenance→Factory Default and then click “Reset to factory default” button in the interface to reset to the factory default settings.

11.4 Device Software Upgrade

You can click Start→Settings→System→Information→Basic to view MCU, kernel version and firmware version and so on. Before upgrade, please get the upgrade file from your dealer.

The upgrade steps are as follows:

- ① Copy the upgrade software into the USB storage device.
- ② Insert the USB storage device into the USB interface of the DVR.
- ③ Click Start→Settings→System→Maintenance→Upgrade to go to “Upgrade” interface. Select the USB device in “Device Name” option and go to the path where the upgrade software exists. Select the upgrade software and then click “Upgrade”. The system may automatically restart during upgrading. Please wait for a while and do not power off the DVR during upgrading.

Note: The file system of the USB mobile device which is used for upgrading, backing up and restoring should be FAT32 format.

11.5 Backup and Restore

You can back up the configuration file of the DVR by exporting the file to other storage devices; you can recover the configuration to other DVRs which are of the same model with the DVR by importing the configuration file to other DVRs for time saving.

Insert the USB storage device into the USB interface of the DVR and then click Start→Settings→System→Maintenance→Backup and Restore to go to the interface.

- **Backup**

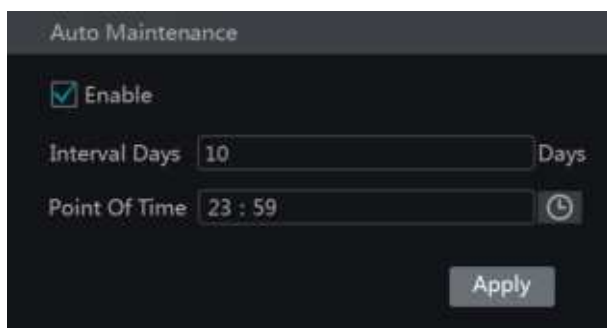
Select the USB device in “Device Name” option; go to the path where you want to store the configuration backup file and then click “Backup” button; finally click “OK” button in the popup window.

- **Recover**

Select the USB device in “Device Name” option; find the configuration backup file and then click “Recover” button; finally click “OK” button in the popup window.

11.6 Restart Automatically

You can set the automatic restart time for the DVR to maintain it regularly. Click Start→Settings→System→Maintenance→Auto Maintenance to go to the interface as shown below. Enable auto maintenance, set the interval days and point of time and then click “Apply” to save the settings. The DVR will restart automatically at the pointed time every interval days.



11.7 View Log

Click Start→Settings→System→Maintenance→View Log to go to the log view interface. Select the log main type, click  to set start time and end time and then click “Search” button. The searched log files will be displayed in the list.

Main Type: All Alarm Operation Settings Exception						
Start Time: 11/03/2015 15:00:00		End Time: 11/03/2015 16:00:00		Search	Export	
No.	Main Type	Log Time	Content	Details	Play	
1	Alarm	11/03/2015 15:58:53	Motion Alarm			
2	Settings	11/03/2015 15:43:01	Local Basic			
3	Operation	11/03/2015 15:34:53	Local Search/Playback/Backup			
4	Alarm	11/03/2015 15:25:43	Motion Alarm			
5	Settings	11/03/2015 15:25:38	Local Camera Parameters			
6	Operation	11/03/2015 15:20:15	Local Search/Playback/Backup			
7	Settings	11/03/2015 15:05:38	Local Camera Parameters			
8	Settings	11/03/2015 15:03:06	Local Record Parameters			
9	Exception	11/03/2015 15:04:48	IPC Offline			
10	Settings	11/03/2015 15:04:46	Local Camera Parameters			
11	Operation	11/03/2015 15:03:49	Local Login / Logout			
12	Operation	11/03/2015 15:03:12	Local Maintenance			

Current Page: 1 / 1, All 12

Choose the log file in the list and then click “Export” button to export the log file. Click on the “Content” title bar to pop up a menu list. Check contents in the menu list and then the log list will show the checked log contents only. Click to play the video log.

11.8 View System Information

Click Start→Settings→System→Information and then click the corresponding menu to view the “Basic”, “Camera Status”, “Alarm Status”, “Record Status”, “Network Status” and “Disk” information of the system.

12 Remote Surveillance

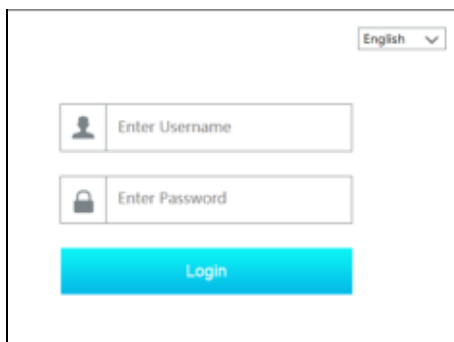
12.1 Mobile Client Surveillance

- ① Enable NAT in the DVR. Refer to [11.1.7 NAT Configuration](#) for details.
- ② Download and install the mobile client “SuperLive Plus” into the mobile device with the Android or iOS system.
- ③ Run the mobile client, go to the “Add Device” interface and then click  to scan the QRCode of the DVR (Go to Start→Settings→System→Information→Basic to view the QRCode of the DVR).
- ④ After scanning the QRCode successfully, input the login password to log in mobile client.



12.2 Web LAN Access

- ① Click Start→Settings→Network→TCP/IP to go to the “TCP/IP” interface. Set the IP address, subnet mask, gateway, preferred DNS and alternate DNS of the DVR.
- ② Open IE browser on a computer, input the IP address of the DVR in the IE address bar and then press enter to go to the login interface as shown below. You can change the display language on the top right corner of the login interface. Input the username and password of the DVR in the interface and then click “Login” to go to the live preview interface.



The login interface features a language dropdown menu set to 'English' in the top right corner. Below this, there are three input fields: the first is labeled 'Enter Username' with a user icon, the second is labeled 'Enter Password' with a lock icon, and the third is a blue 'Login' button.

Notes:

1. Please make sure that the IP address of the DVR and the computer are both in the same local network segment. For example, supposing that the IP address of the computer is 192.168.1.41, the IP address of the DVR shall be set to 192.168.1.XXX.
2. If the HTTP port of the DVR is not 80, but other number instead, you need to input the IP address plus port number in the IE address bar when accessing the DVR over network. For example, the HTTP port is 81. You should enter `http://192.168.1.42:81` in the IE address bar.

12.3 Web WAN Access

➤ NAT Access

- ① Set the network of the DVR. Please refer to [11.1.1 TCP/IP Configuration](#) for details.
- ② Enable NAT and then set the NAT server address. Please refer to [11.1.7 NAT Configuration](#) for details.
- ③ Open IE browser on a computer, input the NAT server address **www.autonat.com** in the IE address bar and then press enter to go to the interface as shown below (download and install the relative plugin according to the popup tip if you access the DVR through NAT for the first time).



The NAT Access login interface includes a QR code in the top left corner. It contains three input fields: 'Enter device serial number', 'Enter Username' (with a user icon), and 'Enter Password' (with a lock icon). A grey 'Login' button is positioned at the bottom.

Input the serial number (click  on the tool bar at the bottom of the live preview interface to see the serial number of the DVR), user name (the user name of the DVR, **admin** by default) and password (the password of the DVR, **123456** by default) of the DVR, select the display language on the top right corner of the interface and then click “Login” button to go to the web client interface.

➤ PPPoE Access

- ① Click Start→Settings→Network→PPPoE to go to the “PPPoE” interface. Check “Enable” in the “PPPoE settings” and then input the username and password you get from your ISP. Click “Apply” to save the settings.
- ② Click Start→Settings→Network→Network Status to view the IP address of the DVR.
- ③ Open IE browser on a computer, input the IP address of the DVR like http://210.21.229.138 in the IE address bar and then press enter to go to the login interface. Input the username and password of the DVR in the interface and then click “Login” to go to the live preview interface.

➤ Router Access

- ① Click Start→Settings→Network→TCP/IP to go to the “TCP/IP” interface. Set the IP address, subnet mask, gateway, preferred DNS and alternate DNS of the DVR.
- ② Set the HTTP port (it is suggested to modify the HTTP port because the default HTTP port 80 might be taken up) and enable UPnP function in both the DVR and the router. If the UPnP function is not available in the router, you need to forward the LAN IP address, HTTP port and server port of the DVR to the router. Port mapping settings may be different in different routers, so please refer to the user manual of the router for details.
- ③ Get the WAN IP address of the DVR from the router. Open IE browser on a computer, input the WAN IP address plus HTTP port like http://116.30.18.215:100 in the IE address bar and then press enter to go to the login interface. Input the username and password of the DVR in the interface and then click “Login” to go to the live preview interface.

Note: If the WAN IP address is a dynamic IP address, it is necessary for you to use the domain name to access the DVR. Click Start→Settings→Network→DDNS to set DDNS (see [11.1.4 DDNS Configuration](#) for details). By using DDNS function you can use the domain name plus HTTP port like <http://sunshine.dvrdyns.com:100> to access the DVR via internet.

12.4 Web Remote Control

The supported browsers of the remote surveillance are IE8/9/10/11, Firefox, Opera and Chrome (available only for the versions lower than 45) in Windows system and Safari in MAC system. When you access the DVR through IE for the first time, you need to download and install the relative components for normal preview and playback. Please refer to the tips in the remote interfaces for details. The buttons and icons on the top right corner of the remote interface are introduced as follows.

admin: the current login username.

Logout: click it to log out and return to the login interface.

Modify Password: click it to change the password of the current login user. Input current password and then set a new password in the popup window. Click “OK” button to save the new password.

Local Settings: click it to change the local settings. Set the snapshot number and click “Browse” to set the snapshot path and record path as shown below. Click “Apply” button to save the settings.

12.4.1 Remote Preview

Click “Live Display” in the remote interface to go to the preview interface. The preview interface consists of the four areas marked in the following picture.



➤ Start Preview

Select a window in the preview area and then click one online camera on the left panel to preview the camera in the window. You can click  in the tool bar to preview all the cameras.

➤ Left Panel Introduction

Click  on the left panel to hide the panel and click  to show the panel. You can view all the added cameras and groups on the left panel.

● View Camera

Click  **Camera** to view the cameras. You can view the number of all the added cameras and the online cameras. For instance, the left number 3 in **Camera (3/4)** on the left panel stands for the number of online cameras; the right number 4 stands for the number of all the added cameras. Input the camera name in the search box and then click  to search the camera. Click  to refresh the camera list.

● View Group

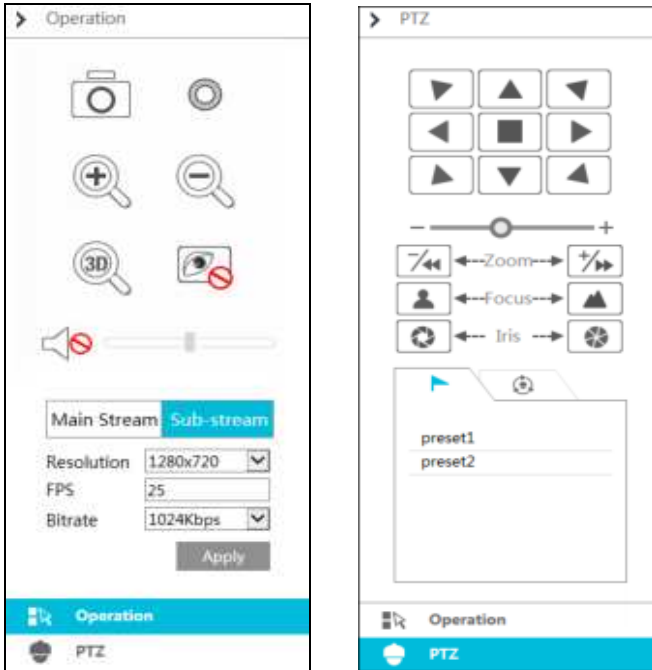
Click  **Single Channel Sequences** to view the groups. The up side of the left panel displays all the groups and the down side displays all the cameras in the group.

➤ Tool Bar Introduction

Button	Meaning
	Screen mode button.
	Click it to disable OSD. Click  to enable OSD.
	Click it to show full screen. Right click on the full screen to exit full screen.
	Click “All Main Stream” or “All Sub Stream” to set the stream of all the cameras.
	Manual alarm button. Click it to pop up a window and then trigger and clear the alarm-out in the window manually.
	Click it to preview all the cameras.
	Click it to close all the preview cameras.
	Click it to start recording. Click  to stop recording.
	Click it to enable talk with the DVR.

➤ Right Panel Introduction

Click  on the right panel to show the panel and click  to hide the panel. Click  **PTZ** at the bottom of the panel to go to “PTZ” panel. Click  **Operation** to go to “Operation” panel.



Click one camera window in the preview area and then click **Main Stream** to set the camera's live preview stream and record stream to main stream in manual record mode; click **Sub-stream** to set the camera's live preview stream and record stream to sub stream. In sub stream tab, set the resolution, FPS and bitrate and then click "Apply" to save the settings.

Operation panel introduction:

Button	Meaning
	Click it to snap.
	Click it to start recording; click it again to stop recording.
	Click it to zoom in the image of the camera and then drag the mouse on the camera image to view the hidden area.
	Click it to zoom out the image of the camera.
	The 3D zoom in function is designed for P.T.Z. Click the button and then drag the image to zoom in or zoom out the image; click the image on different areas to view the image of the dome omni-directionally.
	Click it to close the preview camera.
	Click it to enable audio and then drag the slider bar to adjust the volume. You can listen to the camera audio by enabling audio.

PTZ panel introduction:

Button	Meaning
	Click / / / / / / / to rotate the dome; click to stop rotating the dome.
	Drag the slider to adjust the rotating speed of dome.
	Click / to zoom in/out camera image.
	Click / to increase/ decrease the focal length.
	Click / to increase/decrease the iris of the dome.
	Click it to view the preset list and then click the button in the list to call the preset.
	Click it to view the cruise list and then click the corresponding buttons in the list to start or stop the cruise.

12.4.2 Remote Playback

Click “Playback” in the remote interface to go to the playback interface.

- ① Check the record event types and cameras on the left panel. Set the record date on the calendar beside the time scale.
- ② Click to search the record data and then click or directly click the time scale to play the record.

The operation of the playback time scale is similar to that of the time scale in the main program of the DVR. Please refer to [8.2 Playback Interface Introduction](#) for details.

Introduction of playback control buttons:

Button	Meaning
	Stop button.
	Rewind button. Click it to play video backward.
	Play button. Click it to play video forward.
	Pause button.
	Deceleration button. Click it to decrease the playing speed.
	Acceleration button. Click it to increase the playing speed.
	Previous frame button. It works only when the forward playing is paused in single screen mode.
	Next frame button. It works only when the forward playing is paused in single screen mode.
	Click to step backward 30s and click to step forward 30s.
	Backup start time button. Click the time scale and then click it to set the backup start time.
	Backup end time button. Click the time scale and then click it to set the backup end time.
	Backup button.

Button	Meaning
	Backup tasks button. Click it to view the backup status.
	Event list button. Click it to view the event record of manual/schedule/sensor/motion.

12.4.3 Remote Backup

Click “Backup” in the remote interface to go to the backup interface. You can back up the record by event or by time.

➤ By Event

Check the record type on the left side of the interface and then click  to set the start time and end time; check the cameras and then click  on the right side to search the record (the searched record data will be displayed in the list); check the record data in the list and then click “Backup” button to backup the record.

➤ By Time

Click  to set the start time and end time on the left side of the interface; check the cameras and then click  on the right side to backup the record.

View Backup Status: Click “Backup Status” to view the backup status. Click “Pause” to pause the backup; click “Resume” to continue the backup; click “Delete” to delete the task.

12.4.4 Remote Configuration

Click “Function Panel” in the remote interface and then configure the camera, record, alarm, disk, network, account and authority and system of the DVR remotely. All of these settings are similar to that of the DVR. See the configurations of the DVR for details.

Appendix A FAQ

Q1. Why can't I find the HDD?

- a. Please check the power and SATA data cables of the HDD to make sure they are well connected.
- b. For some DVRs with the 1U or small 1U case, the power of the adaptor may be not enough for operating them. Please use the power adaptor supplied along with the DVR.
- c. Please make sure the HDDs are compatible with the DVR. See [Appendix C Compatible Device List](#) for details.
- d. The HDD could have gone bad. Change a new one.

Q2. Why are there no images output in some or all of the camera windows?

- a. Please make sure the resolutions of the cameras are supported by the DVR.
- b. Please make sure the network cables of the IP camera and DVR are both connected properly and the network parameters are set correctly.
- c. Please make sure the analog camera is connected properly.
- d. Please make sure the network and the switch both work normally.

Q3. The screen has no output after booting the DVR normally.

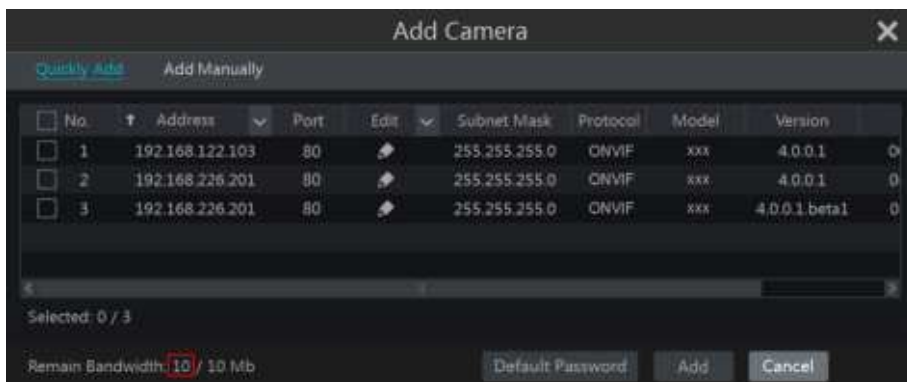
- a. Please make sure the screen, HDMI or VGA cables are good and well connected.
- b. Please make sure the screen supports the resolution of 1280*1024 or 1920*1080. The DVR cannot self adapt to the screen of which the resolution is lower than 1280*1024, and then the screen will remind you that the screen resolution is not supported by the DVR or just have no display. Please change a screen at 1280*1024 or 1920*1080 resolution before booting the DVR.

Q4. Forget the passwords?

- a. The password for **admin** can be reset through “Edit Security Question” function. Click “Edit Security Question” button in the login window and then enter the corresponding answer of the selected question in the popup window, the password for **admin** will be reset to **123456** by default. If you forget the answer of the question, this way will be invalid, please contact your dealer for help.
- b. The passwords of other users can be reset by **admin**, please refer to [10.1.2 Edit User](#) for details.

Q5. The DVR cannot add up to the maximum number of IP cameras?

Take the 4 CH DVR as an example. Refer to the picture below. The remaining bandwidth should be larger than the bandwidth of the IP camera you want to add, or you would fail to add the IP camera. You should lower the added cameras' bitrate to release the bandwidth. It is recommended to add cameras by “Quickly Add” for batch adding.



Q6. The system cannot record, why?

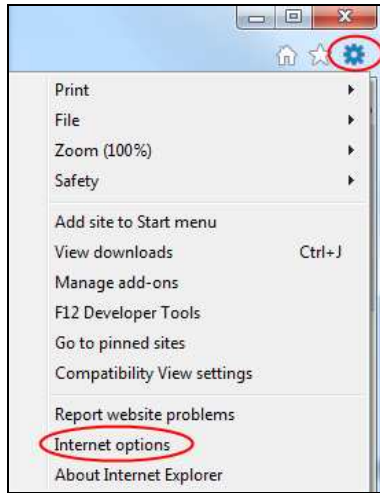
- Make sure the HDD was formatted prior to use.
- The record schedule has not been set in manual record mode. Please refer to [7.3.2 Record Schedule Configuration](#) for details.
- Maybe HDD is full and thus the DVR is not able to record. Check HDD information from Disk Management and if required, please enable the recycle function (please see [7.1.2 Advanced Configuration](#) for details).
- There is no disk but cameras in the disk group, so please add at least one disk to the group. Refer to [7.5.1 Storage Mode Configuration](#) for details.
- The HDD could have gone bad. Please change another one.

Q7. Fail to access the DVR remotely through IE.

- Please make sure the IE version is IE8 or above.
- Please check whether the PC has enabled the firewall or installed the antivirus software. Please try to access the DVR again after you disable the firewall and stop the antivirus software.
- Allow & block list may have been set in Account and Authority setting. The PC of which the IP address is in the block list or out of the allow list cannot access the DVR remotely.

Q8. ActiveX control cannot be downloaded. How can I do?

- IE browser blocks ActiveX control. Please do setup as per the steps mentioned below.
- Open IE browser. Click → Internet Options.



- ② Select Security→Custom Level. Refer to Fig 8-1.
 - ③ Enable all the sub options under “ActiveX controls and plug-ins”. Refer to Fig 8-2.
 - ④ Then click “OK” to finish setup.
- b. Other plug-ins or anti-virus may block ActiveX. Please disable or do the required settings.



Fig 8-1

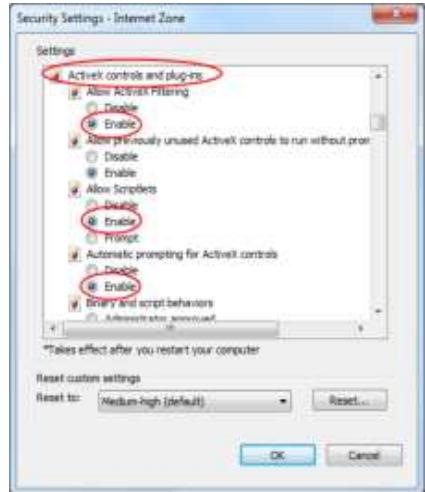


Fig 8-2

Q9. How to play the backup file?

- a. Record backed up by DVR: insert the USB device in which the record backup files is saved to the USB interface of the PC and then open the USB device path. The record can be backed up in the private format and AVI format by DVR.

- If you select the private format when backing up record by DVR, a RPAS compression package will be backed up to the USB device automatically along with the record data. Uncompress the “RPAS.zip” and then click “RPAS.exe” to set up RPAS. After the setup is completed, open RPAS player and then click “Open Folder” button in the middle of the interface to select the record data. Refer to Fig 9-1.

Select camera in the resource tree on the left side of the interface to play the camera record. Click  on the tool bar under the camera image to enable audio. Refer to Fig 9-2.

Note: The record will not have audio output if you disable the audio when recording by DVR. Please see [7.1.1 Mode Configuration](#) and [7.2 Encode Parameters Setting](#) for details.

- If you select the AVI format when backing up record by DVR, the record backup data can be played by the video player which supports this format.
 - b. Record backed up through web. The record can only be backed up with AVI format through web. The record can be backed up to PC and played by the video player which supports this format.

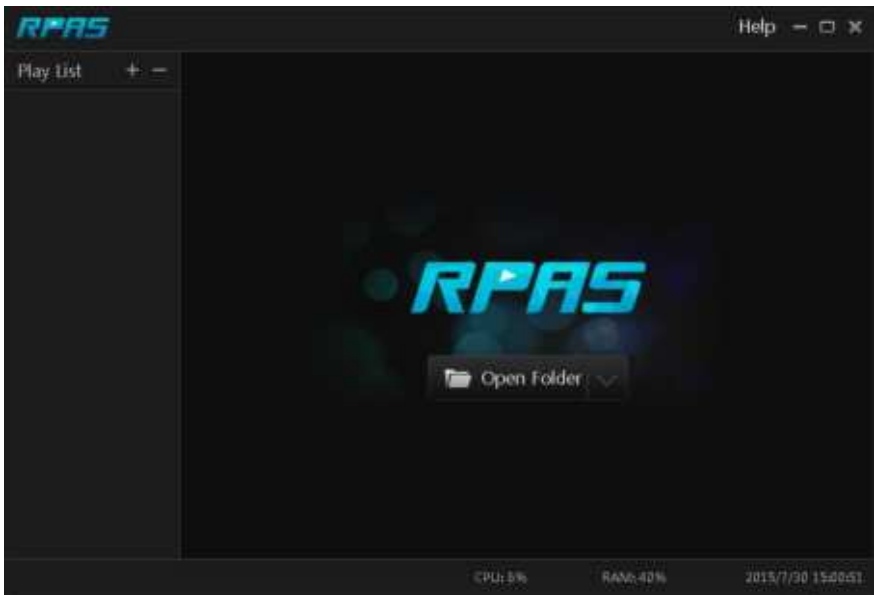


Fig 9-1

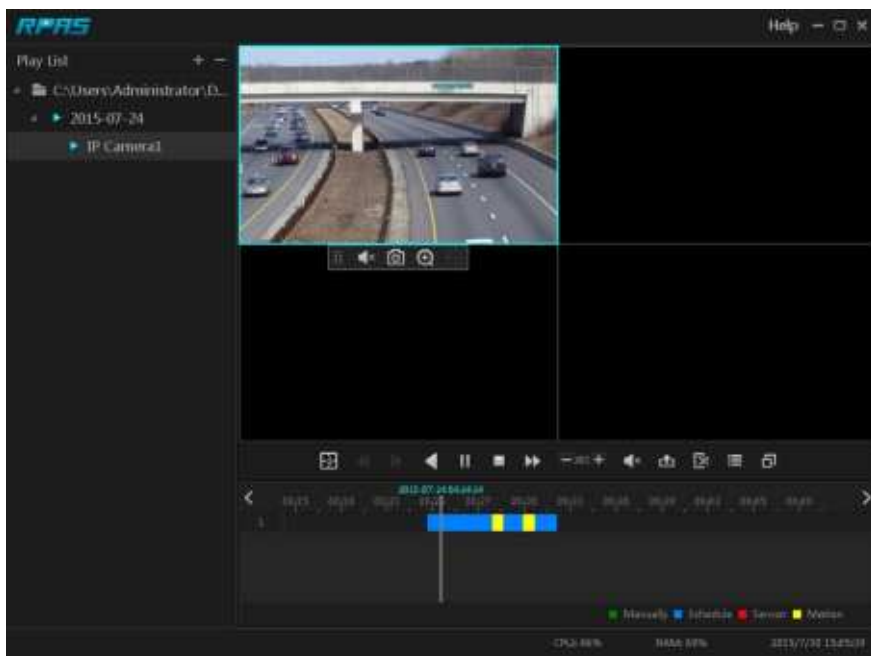


Fig 9-2

Appendix B Calculate Recording Capacity

The recording capacity is mainly up to the record resolution, record stream and bitrate. Different image quality parameters decide different disk capacity occupation in equal times. The bigger the record resolution, record stream and record bitrate is, the more disk capacity is taken up in equal times. The calculation format of recording capacity is shown as below.

Recording Capacity(MB) = Bitrate(Kbps) ÷ 1024 ÷ 8 × 3600 × Recording hours per day × Record Storage Days × channel numbers

3600 means record for an hour(1TB=1024GB , 1GB=1024MB , 1MB=1024KB , 1Byte=8bit).

Record Bitrate (Kbps)	Used Space (MB/H)	Used Space (MB/D)
10240	4500	108000
8192	3600	86400
6144	2700	64800
4096	1800	43200
3072	1350	32400
2048	900	21600
1024	450	10800
768	337.5	8100
512	225	5400
384	168.75	4050
256	112.5	2700

The table below shows the recording capacity requirements for record storage in 30 days.

Record Bitrate (Kbps)	Recording Capacity(TB)					
	1CH	4CH	8CH	16CH	32CH	64CH
10240	3.09	12.36	24.72	49.44	98.88	197.76
8192	2.48	9.89	19.78	39.56	79.11	158.21
6144	1.86	7.42	14.84	29.67	59.33	118.66
4096	1.24	4.95	9.89	19.78	39.56	79.11
3072	0.93	3.71	7.42	14.84	29.67	59.33
2048	0.62	2.48	4.95	9.89	19.78	39.56
1024	0.31	1.24	2.48	4.95	9.89	19.78
768	0.24	0.93	1.86	3.71	7.42	14.84
512	0.16	0.62	1.24	2.48	4.95	9.89
384	0.12	0.47	0.93	1.86	3.71	7.42
256	0.08	0.31	0.62	1.24	2.48	4.95

For instance, there is a 32CH DVR recording 24 hours per day and the record stores for 30 days. The DVR adopts dual stream recording. The main stream is 4096Kbps and the sub stream is 1024Kbps, then the total recording capacity is 49.45TB (39.56TB + 9.89TB).

Considering the format loss of the disk is about 10%, the required disk capacity will be 55TB (49.45TB ÷ (1-10%)).

Appendix C Compatible Device List

Compatible HDD list

Brand and Series		Capacity
Seagate	Barracuda Series	500GB /1TB /2TB /3TB
	SV35 Series (recommended)	1TB /2TB /3TB
	Surveillance HDD Series (recommended)	1TB /2TB /3TB /4TB /6TB
Western Digital	Blue Series	500GB /1TB
	Green Series	2TB /3TB /4TB
	Purple Series (recommended)	1TB /2TB /3TB /4TB /6TB

Compatible USB mobile device

Brand	Capacity
SSK	2GB
Netac	4GB
Kingston	2GB/8GB/16GB/32GB
Aigo	2GB
Smatter vider	1GB
SanDisk	4GB/8GB/16GB/32GB

