Thank you for purchasing our product.

Please read this user's manual before using the product.

Change without notice.

4/8/16/32 CH NVR Quick Guide

CAUTION

- Please read this user manual carefully to ensure that you can use the device correctly and safely

- We do not warrant all the content is correct. 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. If not in use for a long time, pull out the plug from the socket

- Do not install this device near any heat sources such as radiators, heat registers, stoves or other device that produce heat

- Do not install this device near water. Clean only with a dry cloth

- Do not block any ventilation openings. And ensure well ventilation around the machine

- Do not power off the DVR at normal recording condition! The correct operation to shut off DVR is to stop recording firstly, and then select "shut-down" button at the right of the menu bar to exit, and finally to cut off the power.

- This machine is indoor using equipment. Do not expose the machine in rain or moist environment. In case any solid or liquid get into the machine's case, please cut off the power supply immediately, and ask for qualified technicians to check the machine before restart

- Refer all servicing to qualified service personnel. No any parts repaired by yourself without technical aid or approval.

- This manual is suitable for 4/8/16/32-channel digital video recorders.

Default User name / Password
User Name : admin
Password : 123456

※**If hard disk is included in this product, the warranty of hard disk will be 1 year (non-human damage) .**

1. Product Features

1.1 Main Features

- Real-time surveillance

- High resolution VGA output and HDMI output

- 2 way audio

- 4G Mobile surveillance(iPhone/ iPad/ Android)

- Adjustable record resolution, frame rate and quality

- Data back with USB thumb drive. Each backup file size is 128MB.

- Storage：

  4 / 8 CH：Support 1 SATA HDD；16 CH：Support 2 SATA HDD；

  32 CH：Support 8 SATA HDD；

  FAT32 file system to record for a longer time without any limitation.

- Compression with latest H.265 video compression, better video quality and lower

  compression rate.

- Multi-record mode： manual, schedule, sensor and motion record.

- HDD recycle record.

- Single or Multi channel playback

- Record file lock protection

- Motion detection

- Pre and Post event record

- Channel related trigger record

- PTZ control

  Multi PTZ protocol support

  Programmable 128 Preset points and 8 cruises

  Related trigger preset point control

- Authority account setup：

- USB mouse control：To use USB mouse to control on friendly GUI

- Playback search mode：by time or event

  Support network function

  Multi connection type：TCP / IP, PPPoE, DHCP, DNS, UPnP, NTP, SMTP, HTTP, HTTPs,

  RTSP, ONVIF, etc.

Support DDNS / NAT (P2P network penetration function)

Support event trigger to send E-mail

Remote connection limitation

Auto bandwidth adjustment by network status

- Event log and search
- Support network remote control：

    Remote record

    Remote playback

    Remote PTZ control

    Remote configuration

    Remote IE surveillance

    Remote CMS control

    Remote EMAP control

    Remote camera color adjustment

    Remote snapshot

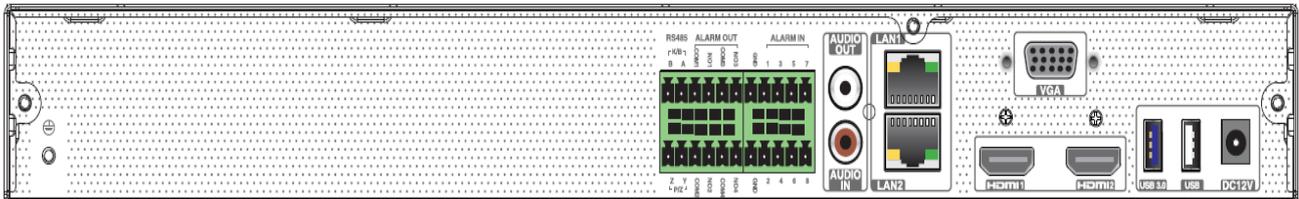## 1.2 Rear Panel Instructions

4 / 8 CH :
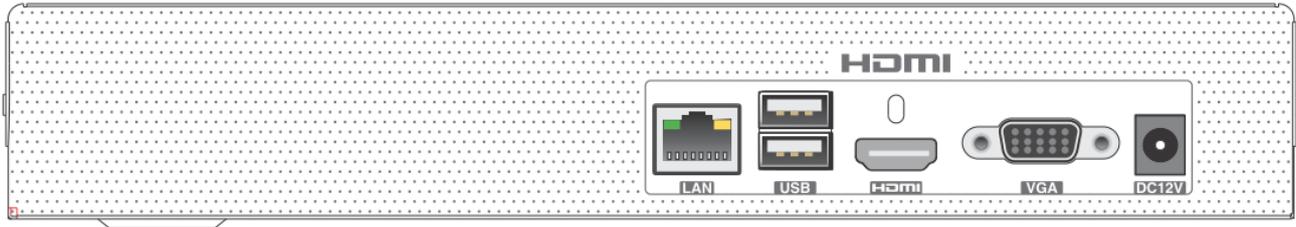
Rear Panel for 4/8 CH

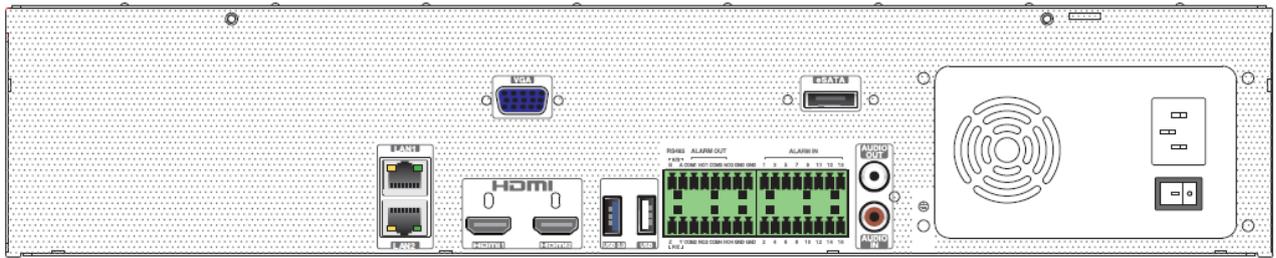| Name	Descriptions
DC12V	DC12V Power Input.
USB	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
LAN	Network port
HDMI	Connect to high-definition display device
VGA	VGA output, connect to monitor

16 CH :

Rear Panel for 16-ch

| Name	Descriptions
DC12V	DC12V Power Input.
USB	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
LAN	Network port
HDMI	Connect to high-definition display device
VGA	VGA output, connect to monitor
AUDIO IN	1CH Audio Input.
AUDIO OUT	1CH Audio output, connect to the sound box.
ALARM IN	support 8CH external sensor
ALARM OUT	4CH relay output. Connect to external alarm
RS485	Connect to keyboard or speed dome; A is TX/RX +; B is TX/RX -

32 CH：

Rear Panel for 32-ch

Name	Descriptions
Power Supply	ATX 250W
USB	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
LAN	Network port
HDMI	Connect to high-definition display device
VGA	VGA output, connect to monitor
AUDIO IN	1CH Audio Input.
AUDIO OUT	1CH Audio output, connect to the sound box.
ALARM IN	Support 16CH external sensor
ALARM OUT	4CH relay output. Connect to external alarm
RS485	Connect to keyboard or speed dome; A is TX/RX +; B is TX/RX -
E-SATA	External HDD for backup

1.3 Remote Controller (Optional) uses two AAA size batteries.

- Open the battery cover of the Remote Controller.
- Place batteries. Please take care of the polarity (+ and -).
- Replace the battery cover.
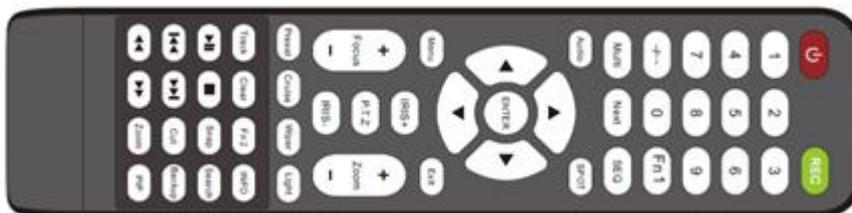
Remote Controller

Button	Function
⏻ Power Button	Switch off—to stop DVR. Use it before turning off the power
Record Button	To record manually
-/-- /0-9 Digital Button	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 enter into auto dwell mode
Audio	To enable audio output in live mode
Switch	To switch the output between BNC and VGA
Direction button	To move cursor in setup or pan/title PTZ
Enter Button	To confirm the choice or setup
Menu Button	To enter into menu
Exit Button	To exit the current interface
Focus/IRIS/Zoom/PTZ	To control PTZ camera. Move camera/zoom/IRIS/Focus
Preset Button	To enter into preset setting in PTZ mode
Cruise Button	To enter into cruise setting in PTZ mode
Track Button	To enter into track setting in PTZ mode
Wiper Button	To enable wiper function in PTZ mode
Light Button	To enable light function in PTZ mode
Clear Button	To return to the previous interface
Fn2 Button	Unavailable temporarily
Info Button	Get information about DVR like firmware version, HDD information
▲▼⏸▼▼■	To control playback. Play/Pause/Stop/Previous Section/Next Section/Rewind/Fast Forward
Snap Button	To take snapshots manually
Search Button	To enter into search mode

Button	Function
⏻ Power Button	Switch off—to stop DVR. Use it before turning off the power
Record Button	To record manually
-/-- /0-9 Digital Button	Input number or choose camera
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Clear Button	To return to the previous interface
Fn2 Button	Unavailable temporarily
Info Button	Get information about DVR like firmware version, HDD information
⏫⏫⏫⏫⏫■	To control playback. Play/Pause/Stop/Previous Section/Next Section/Rewind/Fast Forward
Snap Button	To take snapshots manually
Search Button	To enter into search mode
Cut Button	To set the start/end time for backup in playback mode
Backup Button	To enter into backup mode
Zoom Button	To zoom in the images
PIP Button	To enter into picture in picture setting mode

※ Switch Remote Control ID

Take remote control and point to DVR then continuously press "8"，"8"，**ID(0-65535)**，**Enter**.

 * The ID must be the same on DVR.

 * For example： If ID=1 , please take remote control and point to DVR then press 8,8,1,Enter.

(Press 8,8,1,Enter will enable the IR function, if you want to avoid other remote controller affect the DVR, you can disable the IR function by press 8,8,2,Enter)

1.4 Mouse Control

① 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.

②Text-input

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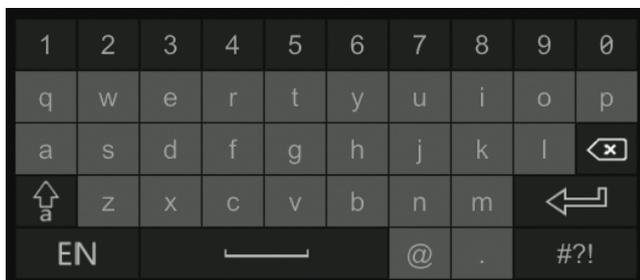
2. Basic Operation

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

2.1 Startup

Step1： Connect the output display device to the VGA/HDMI interface of the NVR.

Step2： Connect with the mouse and power. The device will boot and the power LED would turn blue.

Step3： A WIZARD window will pop up (you should select the display language the first time you use the NVR).

2.2 Shutdown

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

①**By remote controller：**

Step1： Press Power button. This will take you to a shutdown window.

　　　　The unit will power off after a while by clicking "OK" button.
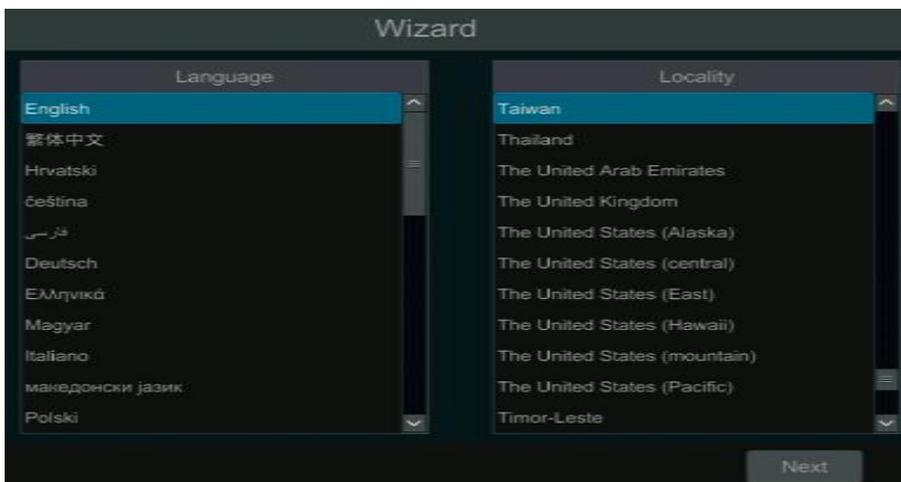
Step2： Disconnect the power.

②**By mouse：**

Step1： 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.

Step2： Disconnect the power.

2.3 Wizard setup

1. Choose the language and locality as needed if it is the first time for you to use the wizard. Click "Next" to continue.

2. Read the privacy statement and then click" I have read and agree". Click "OK" to continue.

3. 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.
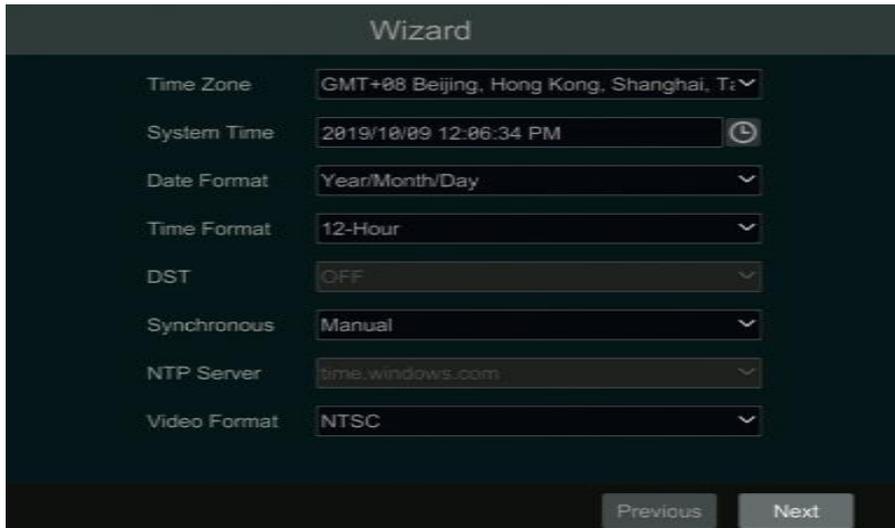

4. System Login ： Set your own password or use the default when you use the wizard for the first time (the default username of the system is admin and the default password of admin is 123456); select the login username and enter the corresponding password next time.
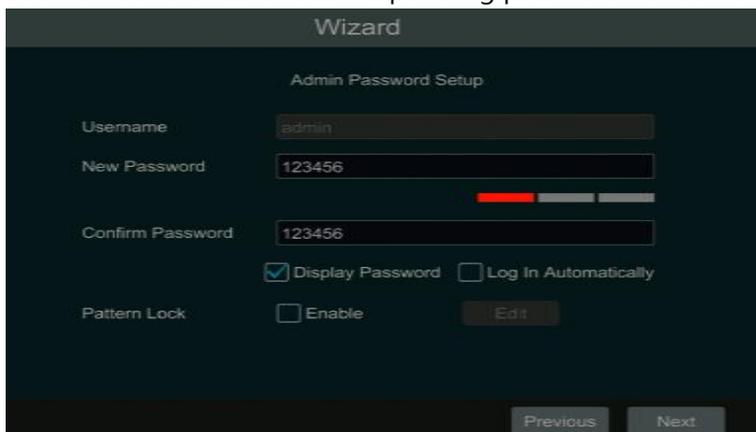

Enable pattern lock and click "Edit" to set the pattern lock.
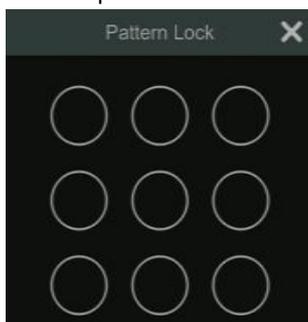

Click "Edit Security Question" to set questions and answers for password security of admin. Click "Next" to continue or click "Cancel" to exit the wizard.
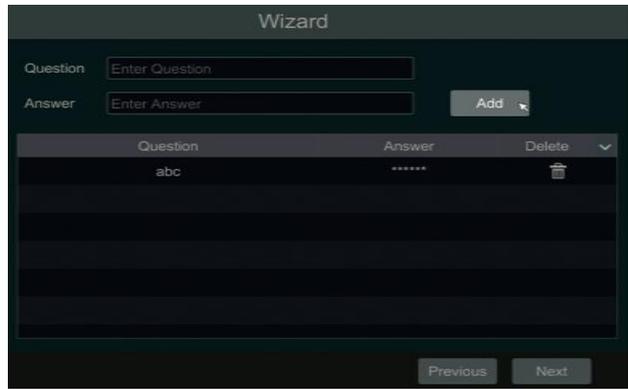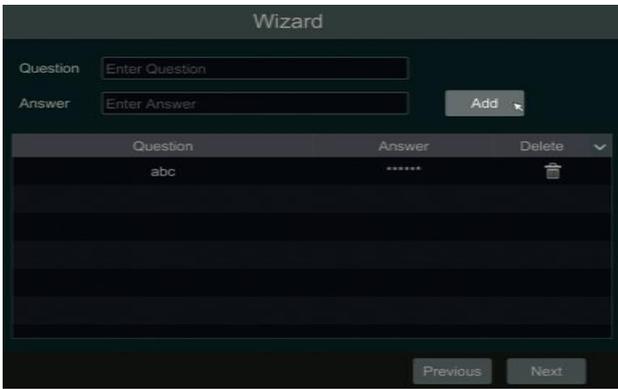
5. Disk Settings ： You can view the disk number, disk capacity of the NVR and serial number, R&W status of the disk. Click "Formatting" to format the disk. Click "Next" to continue.
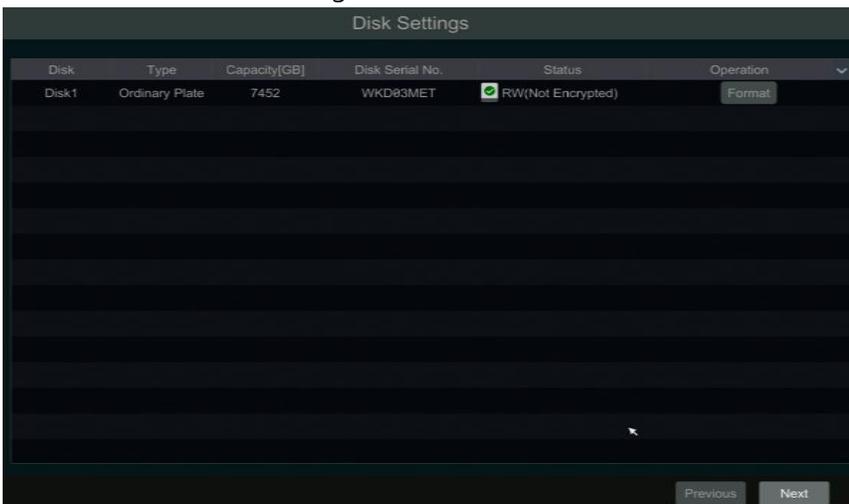

6. You can quickly configure the NVR by wizard setup to make the NVR work normally. You must configure the wizard if you start the NVR for the first time (or click "Skip" to cancel the wizard next time).
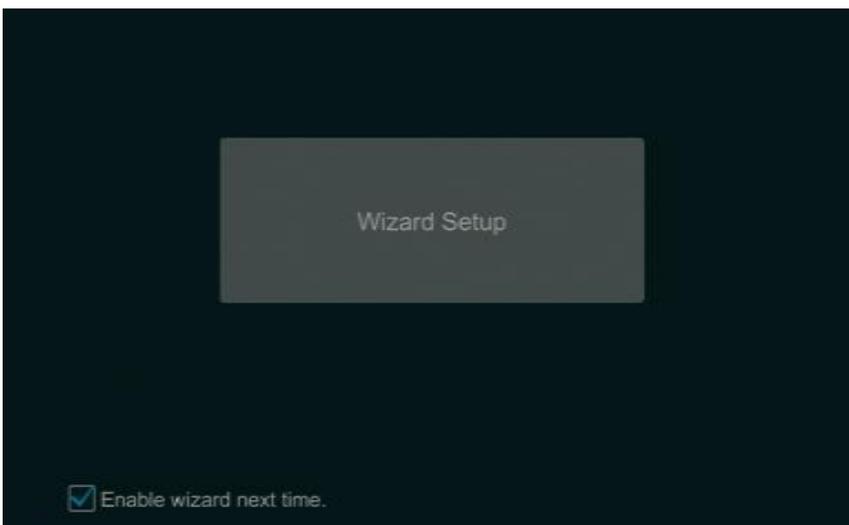
7. Network Settings ： Check "Obtain an IP address automatically" and "Obtain DNS automatically" to get the IP address and DNS automatically (the DHCP function of the router in the same LAN should also be enabled), or manually input them. Input the HTTP port, RTSP port and Server port. Click "Next" to continue.
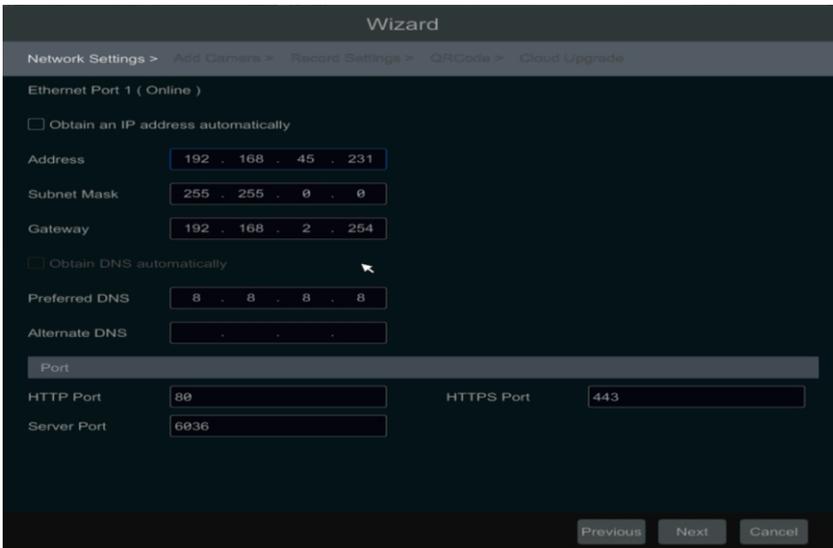
8. Add Camera ： Click "Refresh" to refresh the list of online IP cameras which are in the same local network with NVR and then click to add the searched camera. Click "Add All" to add all the cameras in the list. Click to delete the added camera. Click "Delete All" to delete all the added cameras.
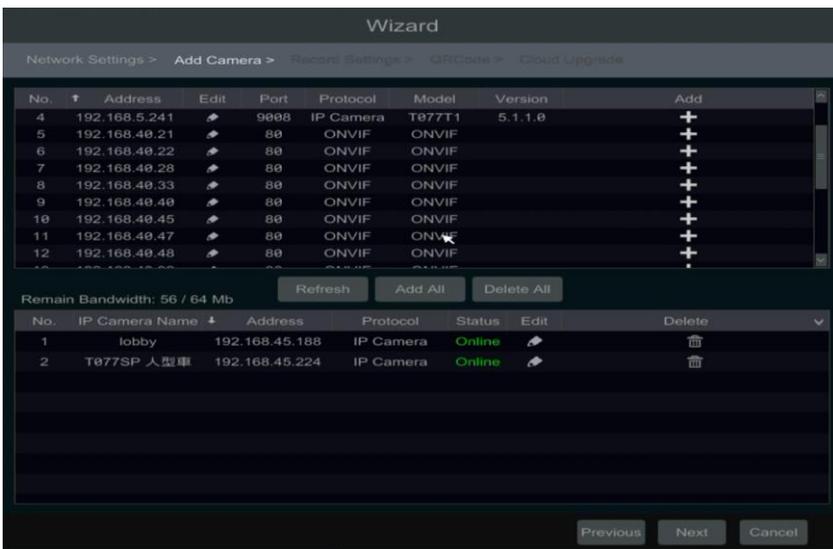

Click to edit the searched IP camera as shown on the below. Input the new IP address, subnet mask, gateway, username and the password of the camera. Click "OK" to save the settings.

Click to edit the added camera as shown on the above. 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 IP camera name only when the added camera is online. Click "Next" to continue.


9. **Disk Mode(Only 32CH)**: Click "Enable RAID" to enable the RAID function. Click "Next" to continue.
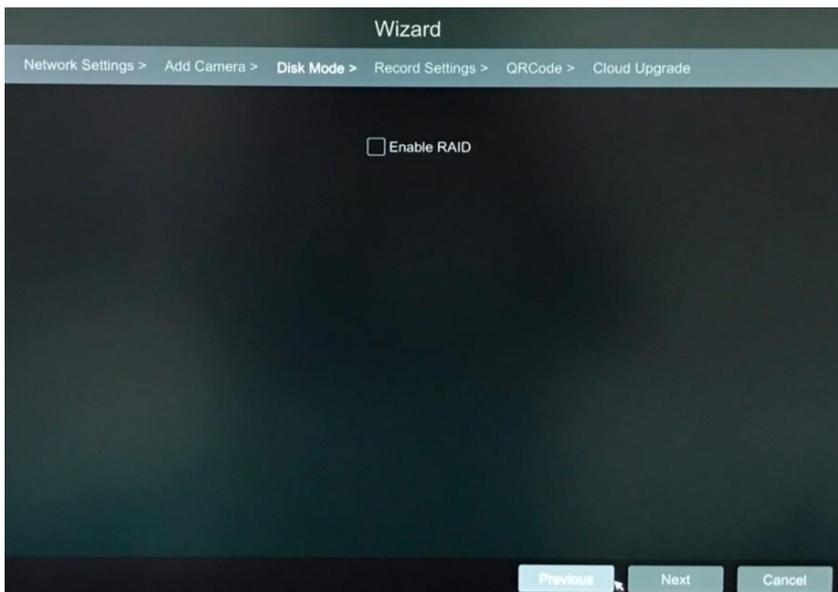

10. **Record Settings** : Two record modes are available : auto and manual.

Auto : Select one auto mode in the interface as shown below and then click "OK" button to save the settings.

Manual : Set the "Sensor Record", "Motion Record" and "Schedule Record" of each camera. Click "OK" to save the settings.
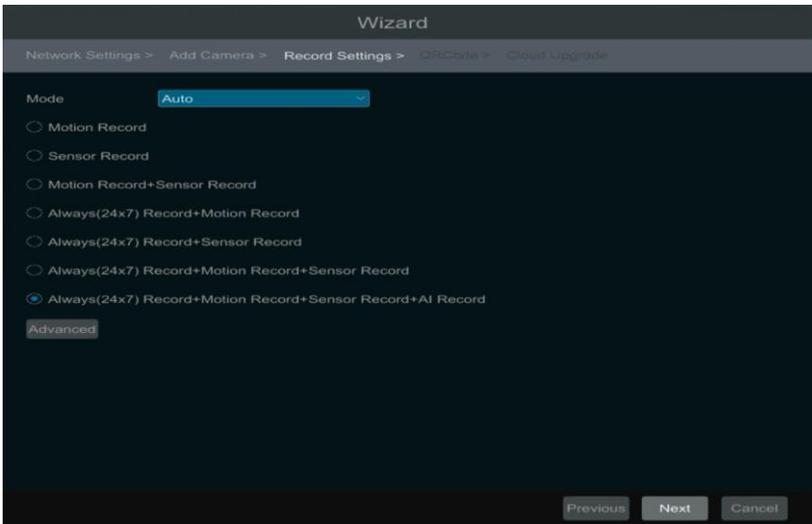
11. QRCode ： You can scan the QR Code through mobile client which is installed in the mobile phone or PAD to log in the mobile client instantly.
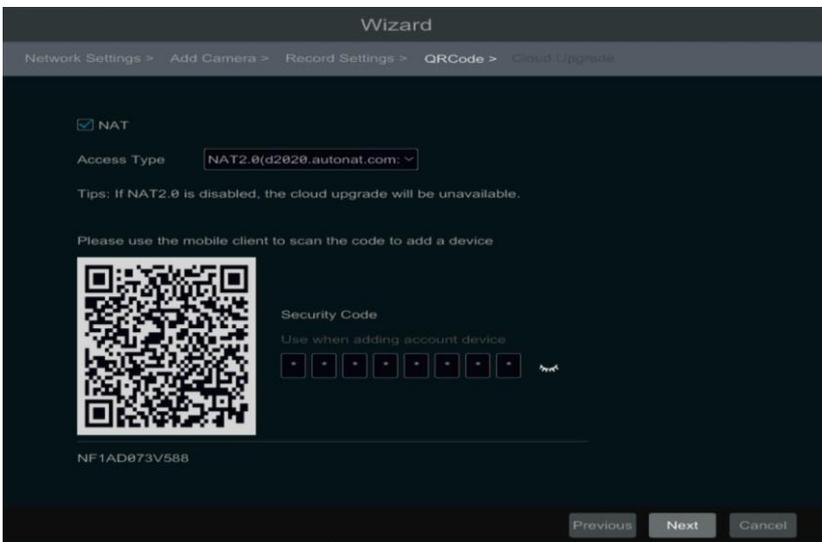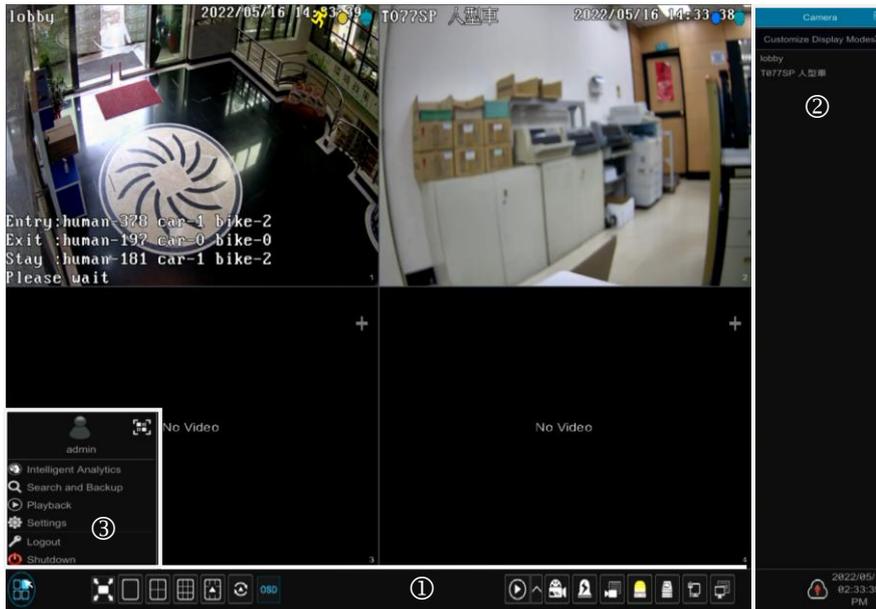

12. Cloud Upgrade：

Enable "Cloud Upgrade" and then click "OK" to save. If this function is enabled, you can get the latest version from the cloud server. (This function is still in the testing stage and will be available after subsequent firmware upgrades.)
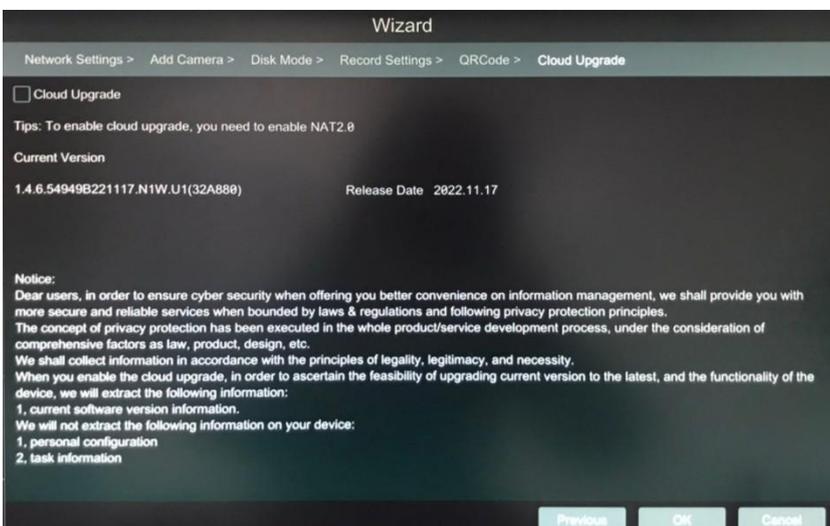
2.4 Main interface

2.4.1 Main interface introduction

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

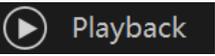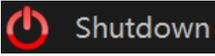| Button	Meaning
⚏	Start button. Click it to pop up area ③.
⛶	Full screen button. Click it to show full screen; click it again to exit the full screen.
☐ ⊞ ⊞ ⚏ ☐	Screen mode button (according to individual models)
⟳	Dwell button
OSD ON	Click it to enable OSD; click OSD OFF to disable OSD.
▶∧	Click ▮ to set the default playback time before starting instant playback or going to the playback interface for playback operations ; 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
📹	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 :

Area ② is hidden by default. Move the cursor to the right to reveal this area. 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 camera in the list to preview the camera image in the selected window.

Click ![icon] on the top right corner and then select "Single Channel Sequences" to view all the added groups in the group list; click one group in the list to view all the added cameras in the group. Select one camera window on the left side of the interface and then double click one group in the group list to preview the cameras' images one by one in the selected window.

Click ![icon] on the top right corner and then select "Customize Display Modes" to view all the display modes in the display mode list. Double click one display mode in the list to switch to the display mode for previewing.

Click ![icon] on the top right corner and then select "Face Match" to go to face recognition interface. (This function is only available for models with face recognition function).

Introduction of area ③ :

Icon / Button	Meaning
![admin icon] admin	It shows the current login user.
![icon] Intelligent Analytics	Click it to go to the intelligent analytics interface
![icon] Search and Backup	Click it to go to record search interface.
![icon] Playback	Click it to go to playback interface (click ![icon] on the tool bar at the bottom
![icon] Settings	Click it to pop up the setup panel.
![icon] Logout	Click it to log out the system.
![icon] Shutdown	Click it and then select "Logout", "Reboot" or "Shutdown" in the

2.4.2 Setup panel

Click Start → Settings to pop up the setup panel as shown below.
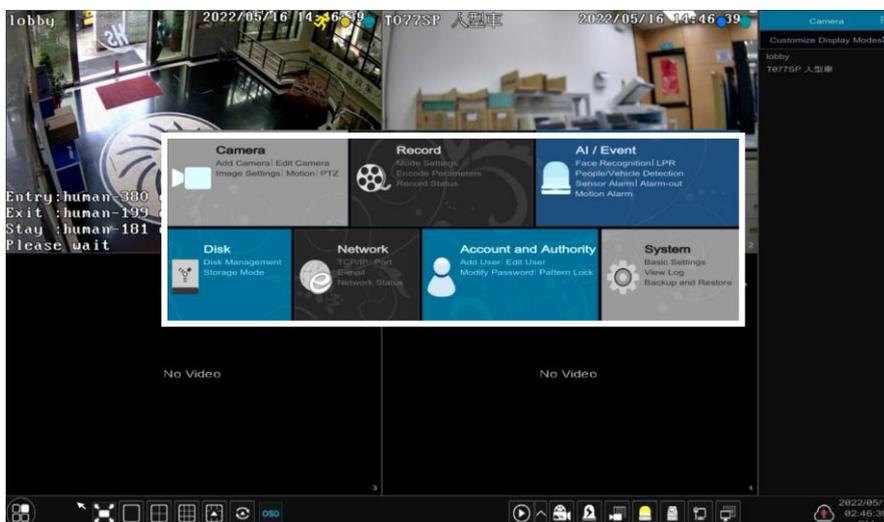
The setup panel includes seven modules. Each module provides some function entries with links for

convenient operation.

3. Camera Management

3.1 Add camera

The network of the NVR should be set before adding IP camera. Refer to the pictures below. Click Add Camera in the setup panel or ![plus icon] 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.
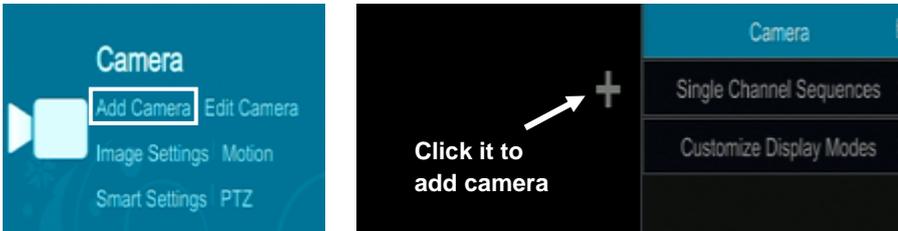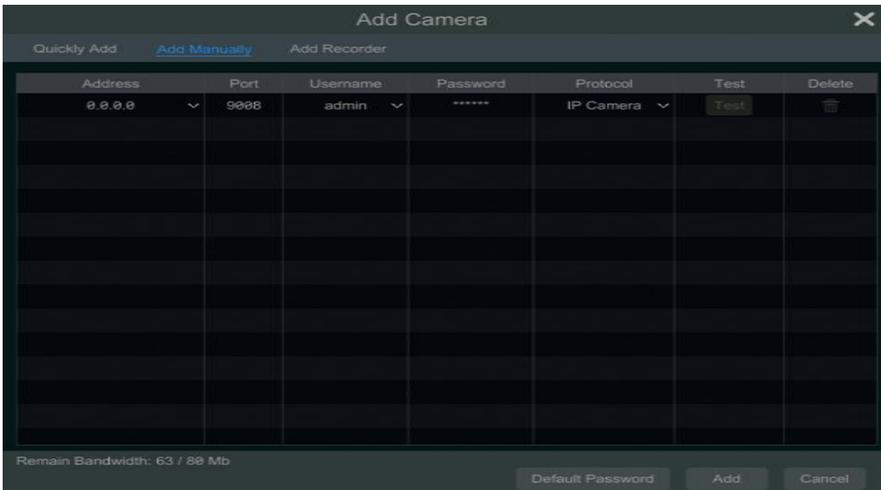

3.1.1 Quickly add

Check the cameras and then click "Add" to add cameras. Click ![edit icon] 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.
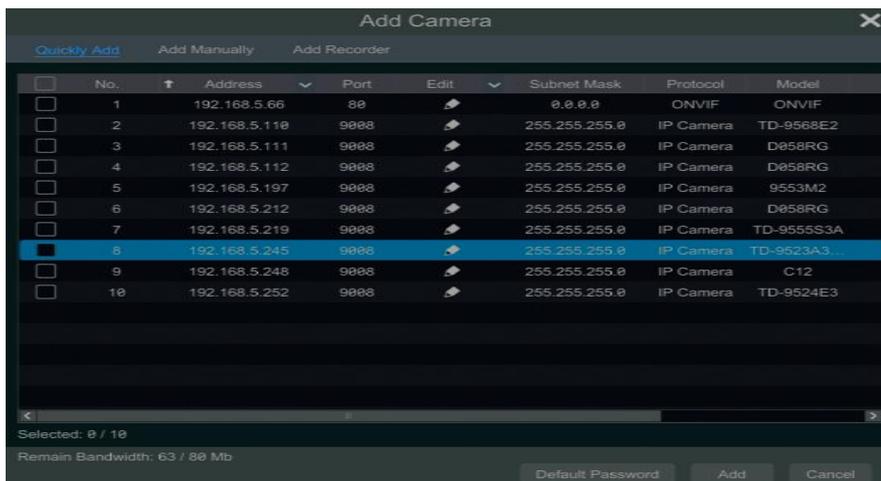
3.1.2 Add manually

Input the IP address, 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 ![trash icon] to delete the camera. Click "Default Password" to set the default username and password of each camera.

3.1.3 Add Recorder
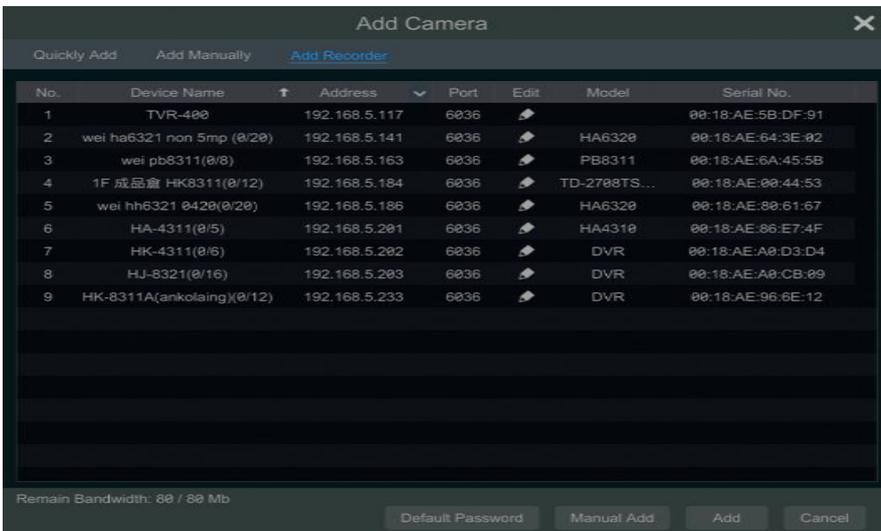
Quickly Add：Select the searched NVR/DVR and the click "Add" to add NVR in the same local network.

Manually Add：Click "Manual Add" and then enter the IP address or domain name, port, username and password of the NVR/DVR. Check the added remote channel number and click "Test". Then click "OK" to return to the previous interface.

Note： Only the local NVR has unoccupied channels, may the IPC of other NVR/DVR in the same local network be added. And the added IPC supports previewing and recording.

3.2 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. Click to delete the camera.

4. Live Display

4.1 Preview interface

You should add camera first after logging on to the system. Refer to the interface as shown below, drag one camera in the preview window to another window for camera window exchanging.
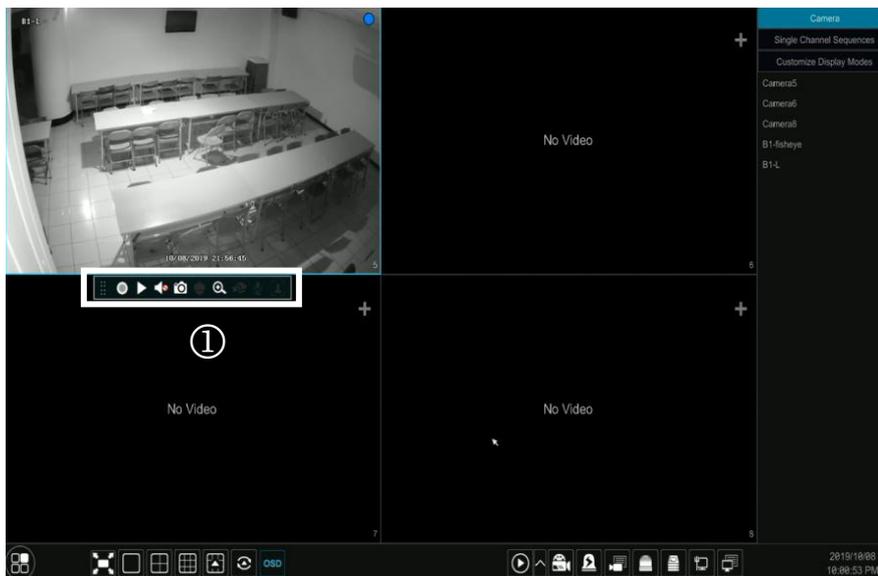
Click the preview window to show the tool bar as shown in area ①; right click the preview window to show the menu list (manually record on, instant playback, enable audio, snap, zoom in, PTZ control and camera info). The tool bar is introduced in the table below.

Button	Menu List	Meaning
	--	Move tool. Click it to move the tool bar anywhere.
	Manually Record	Click it to start recording.
	Instant Playback	Click to playback the record; click "Instant Playback" to select or self-define the instant playback time.
	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.

|		
⊕	Zoom In	Click it to go to single channel amplification interface.
🖼	Image adjust	Click it to go to image adjustment interface.
🎤	Start/Close Talk	Click it to start talk.
👤	Face Recognition	Click it to go to single channel face comparison interface (only applicable to some

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. Record & Disk Management

5.1 Record

Please format the HDDs before recording. 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.
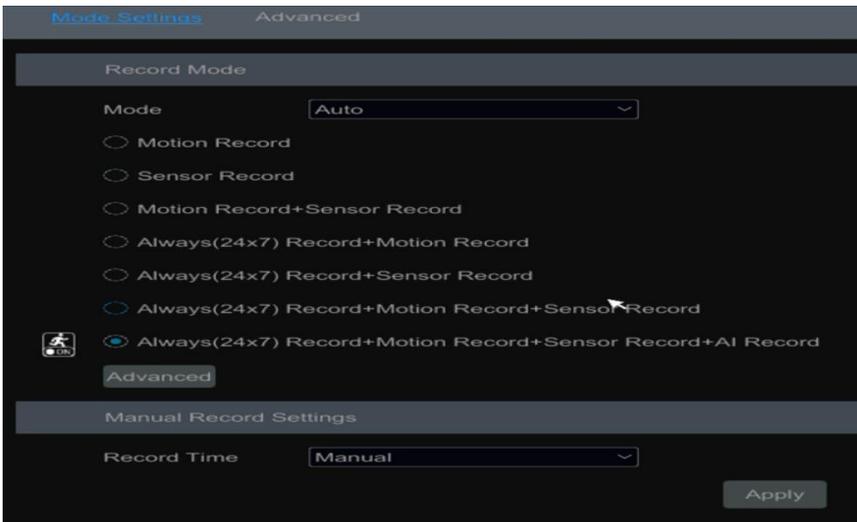
5.1.1 Auto mode

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(24×7) Record+Motion Record：Normal record is enabled all the time; motion alarm record will be

21

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.

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

Select one auto mode to pop up the corresponding window. Set the video encode, resolution, FPS, bitrate and audio of each camera and then click "OK" to save the settings.

Video Encode：the available options will be H.265 and H.264 if the connected IP camera supports H.265, or the option will be H.264 only.

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 much change is seen in the video scene, the compression bitrate will be kept constant. VBR means that the compression bitrate will be adjusted according scene changes. For example, for scenes that do not have much movement, the bitrate will be kept at a lower value. 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.

GOP：group of pictures.

5.1.2 Manual mode

If the manual mode is selected, you need to set the encode parameters and record schedules of each camera.

5.2 Disk management

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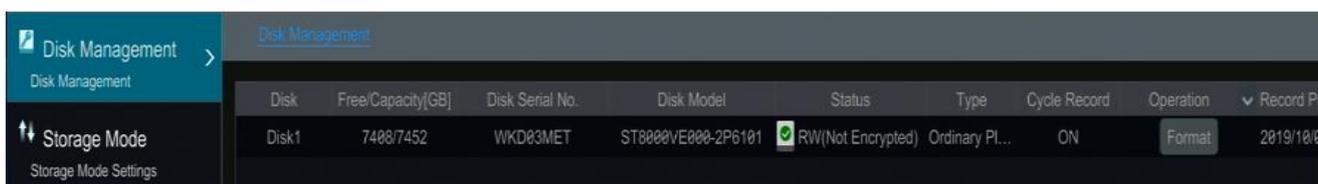
Note：

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

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

6. Playback & Backup

6.1 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.

6.2 Playback interface

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).
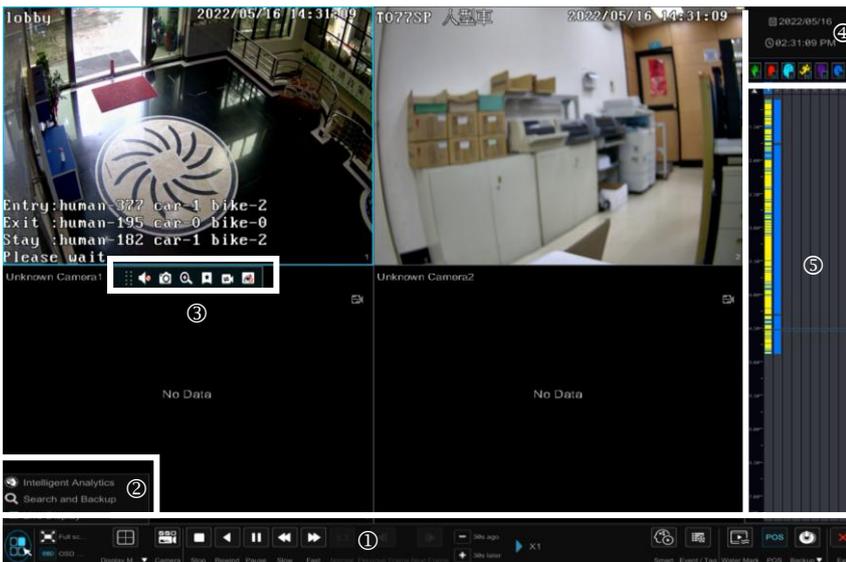
The added cameras will playback their records in the playback interface automatically. You can also add the playback camera manually. Click ➕ in the playback window to pop up the "Add Camera" window. Check the cameras in the window and then click "Add" to add playback camera. The system supports a maximum of 16 synchronous playback cameras.

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 mode button.
OSD	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.
− 前30秒 + 后30秒	Click ▬ to step backward 30s and click ➕ to step forward 30s.
🔄	Play back by Smart event.
POS	Open/close POS information.
📋	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.
✖	Back button. Click it to return.

Introduction of area ② :
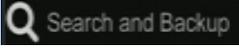
Button	Meaning
Intelligent Analytics	Click it to go to the intelligent analytics interface.
Search and Backup	Click it to go to record search and backup interface.
Live Display	Click it to go to live preview interface.
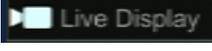
Click on the playback window to show the tool bar as shown in area ③; right click on the window to show

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
📷	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
★	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
🎥	Switch	Click it to switch the playback camera. Click it and then check
📷	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; 🔵：intelligence record; ◼：POS record) and finally click ➕ on 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.

6.3 Record search & playback

6.3.1 Search & playback 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.
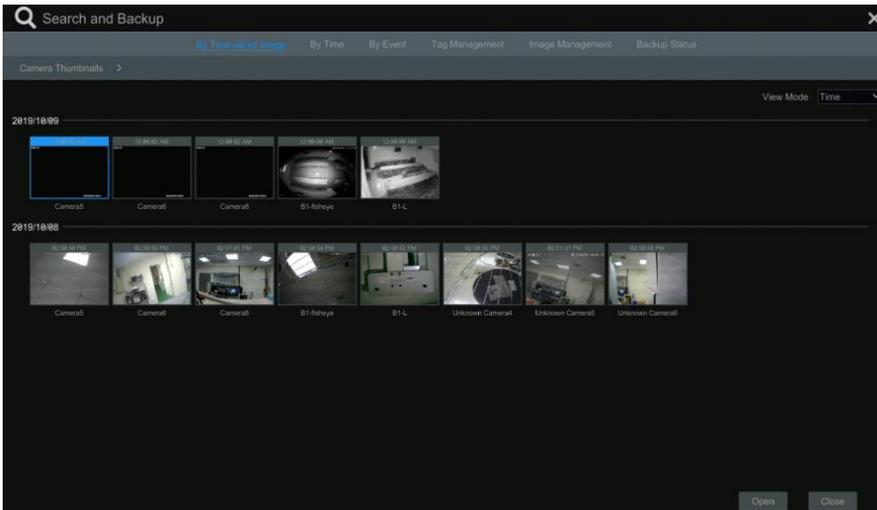

② Select one camera in the interface and then click "Open" button.

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 a window; select the device, backup path and backup format in the window and then click "Backup" button to start the backup.

⑤ Click "Playback" button to play the record in the playback interface. Click "Close" to close the interface.
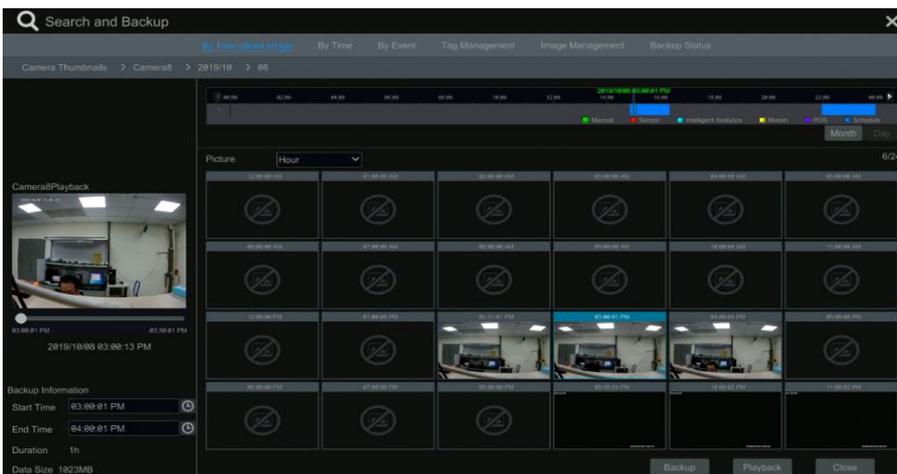

Time Slice Mode Selecting：

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.

6.3.2 Search & playback 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. A maximum of 16 cameras can be added for playback. 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 requir🕐 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.
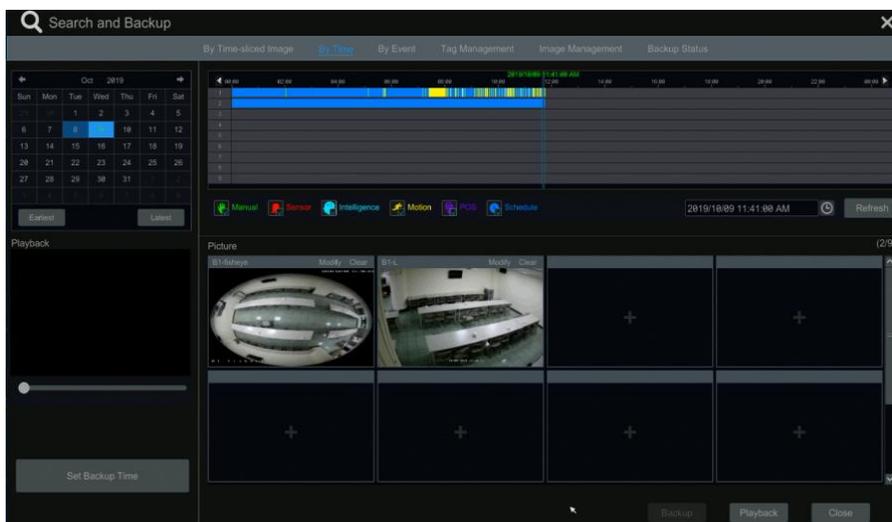
6.3.3 Search & playback by event

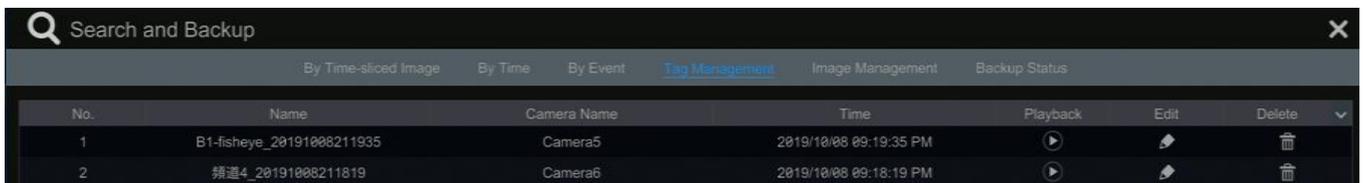① Click Start→ Search and Backup →By Event to go to "By Event" tab as shown below.
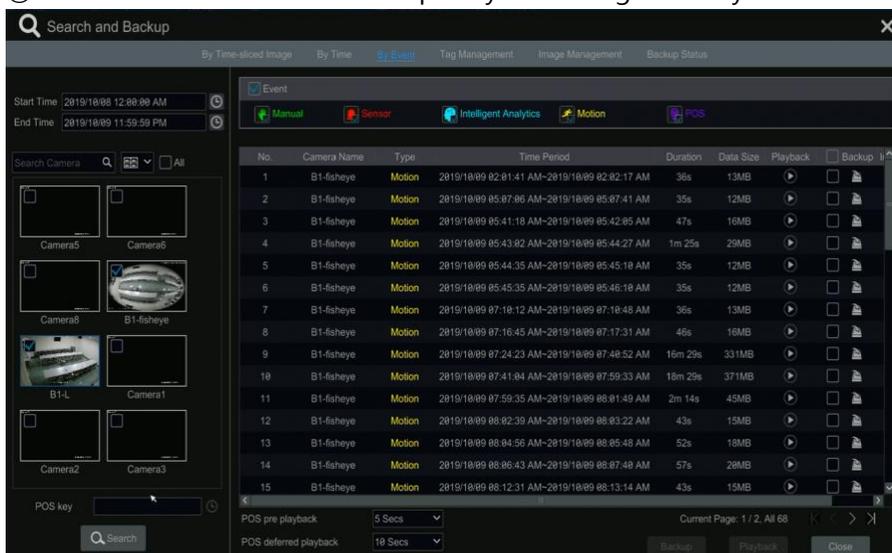
② Check the event type in the interface as required.

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 and then click 🔍 Search 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. Select one record data in the list and then click "Backup" button for record backup.

⑥ Select one record data in the list and then click "Playback" button to play the record in the playback interface.

6.3.4 Search & playback by tag management

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.
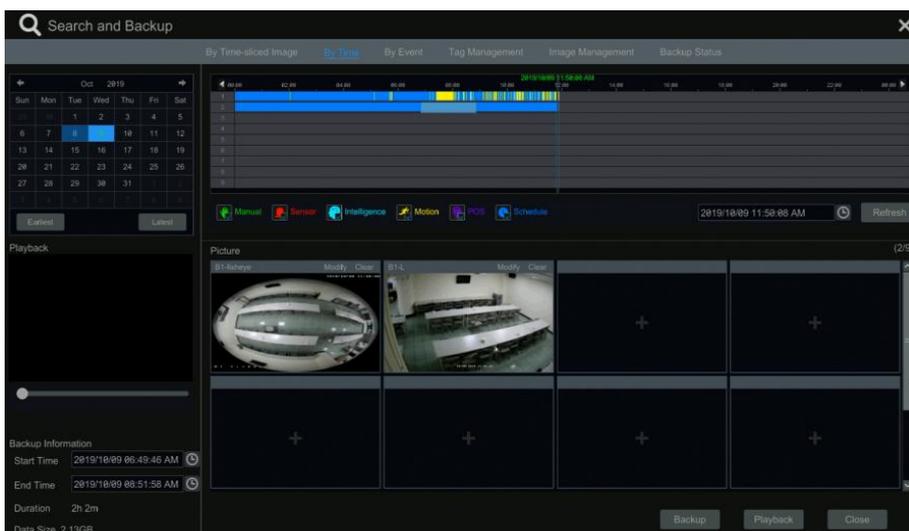

6.4 Backup

The record data and the snapped pictures can be backed up through network, USB. The file system of the backup devices should be FAT32 format.
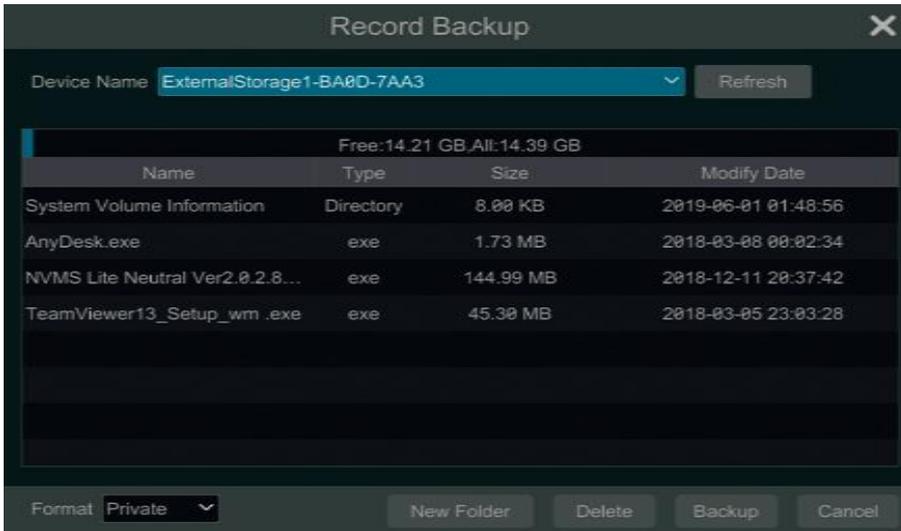
6.4.1 Backup by time

① Click Start Search and Backup By Time to go to the "By Time" tab.


② Click ➕ in the tab to pop up the add camera window. Check the cameras in the window and then click "Add" button. Click "Modify" on the top right corner of the camera window to change the camera and click "Clear" to remove the camera.

③ Set the date on the top left of the interface. Drag the time scale to set the backup time period or click ⏰ under the time scale to set the backup start time and end time.

④ 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.

6.4.1 Backup by event

① Click Start Search and Backup By Event to go to "By Event" tab.

② Click ⏰ to set the start time and end time on the left top of the interface.

③ Check the event types and cameras.

④ Click 🔍 Search to search the record. The searched record data will be displayed in the list. Click ▶ in the list to play the record in the small popup playback window. Click 📄 to back up the record. Check one record data or above in the list and then click "Backup" button to back up the record data.
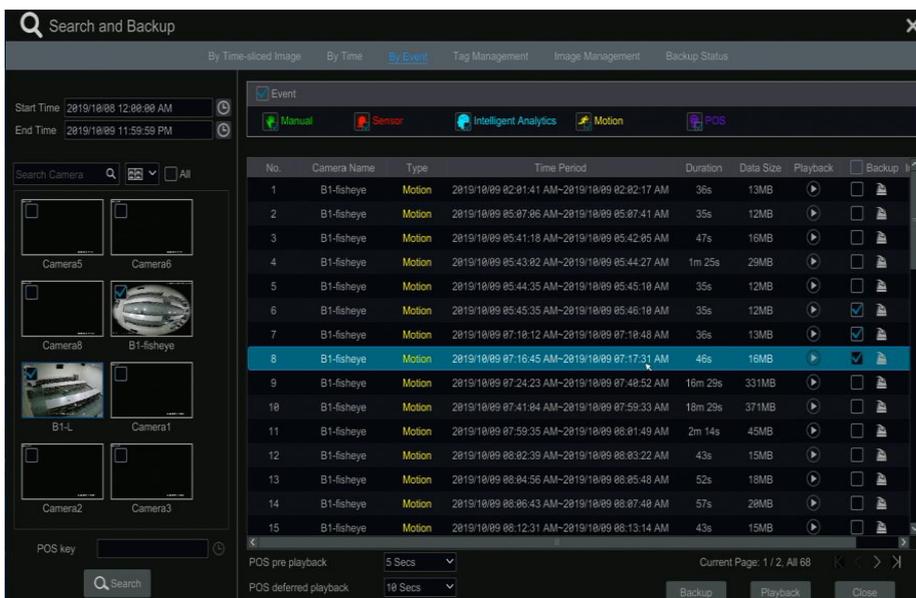
APPENDIX A Compatible Devices

1. Compatible USB drive after test.

Brand	Capacity
A-DATA	512MB, 1G, 2GB
Transcend	4GB
Kingston	2GB
Toshiba	2GB
SanDisk	4GB

2. Compatible external USB CD/DVD writers after test

Brand	Model
LG	GH24NS90

3. Compatible HDD

Brand	Model number	Capacity
Western Digital	WD10PURX FW : 64D85Y0	1TB
	WD20PURX FW : 64P6ZY0	2TB
	WD30PURX FW : 64P6ZY0	3TB
	WD40PURX FW : 64GVNY0	4TB
	WD40EURX FW : 64WRWY0	4TB
	*WD60PURX FW : 64LZMY0	6TB
SEAGATE	ST1000VX005 FW : CV12	1TB
	ST2000VX007(SkyHawk Lite) FW : CV11	2TB
	ST2000VX008 FW : CV12	2TB
	ST3000VX002 FW : CV12	3TB
	ST4000VX000 FW : CV11	4TB
	ST6000VX0003 FW : SC60	6TB
	ST8000VX0002 FW : AV01	8TB
	ST10000VX0004 FW : AV01	10 TB

∗**Power adapter should be requested more than 12V, 3A to support 6TB HDD.**

APPENDIX B_SPCIFICATION

Model	4 CH	8 CH	16 CH	32 CH
Compression format	H.265S / H.265+ / H.265 / H.264			
Video output	VGA×1 , HDM I×1		VGA×1 , HDM I×2	
Support IP camera	4	8	16	32
HDMI Resolution	1920 × 1080 / 1280 ×1024 / 1024 × 768		HDMI 1 :3840×2160 / 1920×1080 / 1280×1024 / 1024×768 HDMI 2 : 1920×1080 / 1280×1024 / 1024×768	
VGA Resolution	1920 ×1080 / 1280 ×1024 / 1024 ×768			
Record Resolution	6MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P / D1 / CIF		12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080P / 1280×1024 / 960P / 720P / 960H / D1 / CIF	
Audio Input	Support IPC audio input		Support IPC audio input / Localhost RCA × 1 (Two-way voice)	
Audio output	Support IPC audio output		Support IPC audio output / Localhost RCA × 1	
Alarm Input	Support IPC Alarm input		Support IPC alarm input / Localhost Alarm in × 8	Support IPC alarm input / Localhost Alarm in × 16
Alarm output	Support IPC Alarm output		Support IPC alarm output / Localhost Alarm out × 4	Support IPC alarm output / Localhost Alarm out × 4
Record Mode	Manual / Timed / Motion / Sensor / POS / AI recording			
Network Interface	RJ45			
PTZ control	YES			
Communication interface	USB2.0×2 (one for backup, another for USB mouse)		USB3.0×1, USB2.0×2 (one for backup, another for USB mouse)	
Disk info	SATA×1 (10TB)		SATA×2 (10TB)	SATA×8 (10TB)
E-SATA	N/A			1
RAID	N/A			RAID 0、1、5、6、10
Remote controller	N/A		Optional	
Power Supply	DC12V			ATX 250W
Temperature	-10℃-50℃			
Humidity	10%-90%			

85-NKA52G-0001C