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<td>Default Configuration</td>
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</tr>
</tbody>
</table>

Thank you for purchasing our products, if you have any questions or need, please feel free to contact us.

This manual applies to ZW-NVR1904HD-X3, ZW-NVR1908HD-X3, ZW-NVR1916HD-X6, ZW-NVR1925HD-X6 Series Network NVR.
This manual may contain technical inaccuracies, or product features and operation of the place do not match, or typographical errors. This manual will be updated according to enhance product features, and will be regularly updated product or process improvements or described in this manual, updated content will be added in the new version of this manual without notice.

Chapter 1 Safety Precautions

Be sure to observe the following precautions when using this product:

- Not place objects filled with liquids (such as glass) on NVR.
- NVR will be placed in a well ventilated location.
- Make the NVR work within the allowable temperature and humidity range.
- NVR dust inside the circuit board can cause a short circuit in the damp, regularly with a soft brush on the circuit boards, connectors, chassis and chassis fan to remove dust.
- Battery is incorrectly replaced explosion hazard, do not recommend users to directly replace; For replacement, only to be replaced with the same type or equivalent type of battery.
- When installing, be sure to turn off all power to the device.
Chapter II  Products

2.1 Functionality

- Each channel supports dual stream compression, in which the main stream up to FULL HD (1920x1080) resolution, sub stream supports up to D1 resolution.
- Video coding parameters independently adjustable for each channel, including resolution, frame rate, bit rate, image quality, image parameters, ISP parameters.
- Each channel supports two sets of normal and event compression parameters, and the local sub-stream compression configuration parameters.
- Supports composite stream and video stream encoding, composite stream encoding audio and video synchronization.
- Supports HD 1080P video output.

Realtime Monitoring

- Support HDMI, VGA output simultaneously.
- Support HDMI high-definition display, the highest resolution of 1920x1080P; supports high-definition VGA display, the highest resolution of 1920x1080P.
- Support 1,1 / 4,1 / 6,1 / 9,1 / 16,1 / 25-screen preview, adjustable preview channel order.
- Support preview packet switching, manual switching or automatic polling preview, automatic polling cycle can be set.
- Maskable specified preview channel.
- Support video privacy cover.
- Support video motion detection, video loss detection.

Store

- ZW-NVR1904HD-X3, ZW-NVR1908HD-X3 maximum support two SATA hard drives, ZW-NVR1916HD-X6, ZW-NVR1925HD-X6 maximum support 10 hard disks
- Based on user configuration and policy (for example, through the alarm and timer settings) via the appropriate tone for remote network transmission
- Equipment, video data stored centrally on a NVR.
### Backup
- Support for backup via USB interface
- Support for external SATA burner for backup
- Supports remote backup over the network
- Backup support playback for editing

### Video / Capture Image and Playback
- Support write cycle and acyclic write modes.
- Support normal and event compression parameters.
- Video trigger modes include manual, schedule, alarm, motion detection.
- When support for local playback on any area of electronic amplification.
- Support video file rewind.
- Supported by channel number, video type, file type, and other conditions incident to retrieve and playback of video data.
- Support HD 1080P, D1 real-time video.
- Supports local playback backup file.

### Alarm & Exception
- Support arm time alarm input / output settings.
- Support video loss alarm, video motion detection alarm, video tampering, unauthorized access to alarms, network disconnection alarm, IP conflict warning, hard disk error and hard disk full alarm.
- Various alarm can trigger pop-up alarm screen, sound warning, send messages, trigger the alarm output and preview prompts alarm warning sound can trigger a variety of abnormalities, send messages and trigger the alarm output.
- Support ago after police videos and police videos
- Support linkage PTZ settings and automatic cruise corresponding channel, track

### Others
- The user can through the front panel buttons, mouse, remote control, keyboard and other special operations.
- Three privileged user management, the administrator can create multiple operating users and set their permissions, the permissions can be refined into the channel.
NVR Operating Instructions

- Complete operation, alarm, abnormal and information logging and retrieval.
- Support alarm triggered manually cleared.
- Support for importing device configuration information / export operation

Network
- Support TCP / IP, DHCP, PPPoE, NTP and DDNS protocol;
- Support IE browser for remote preview
- Supports remote access and configuration parameters, support for export and import remote device parameters
- Supports remote access to equipment operating status, system log and alarm status
- Support remote format the hard disk, upgrade, reboot the system, such as maintenance operations
- Supports RS-485 transparent channel transmission
- Support remote PTZ control
- Supported by IOS, Android mobile terminal for remote monitoring
- Support the use of CMS to manage multiple devices through the Internet.
Chapter III  Operation reading

3.1 Front panel buttons and indicator

3.2 Rear Panel Interface Description

3.3 Mouse Operation

Note: If the mouse is not detected after the access, the mouse is generally not compatible with NVR lead, replace the mouse.

3.4 Remote control operation

The correct method of using the remote control: Before using the remote control, make sure the battery has been installed correctly. When using the remote control, the remote control infrared transmitter aligned NVR infrared receiver port, and then to operate. By default, the remote control can operate all the NVR can receive infrared signals. If you need to individually control a NVR, go to the "Main Menu" → "System Configuration" → "Basic Configuration" to see the device number of the device, and then on the remote control, press [Device] key, NVR will pop setting device address of the interface, and then enter to operate the NVR. If the remote does not control, try again: Press [Device] key → enter the device number → press [Enter] key, if multiple attempts can not control, check for the following reasons:

1. check the battery’s positive and negative polarity;
2. check the battery power is exhausted;
3. check whether the remote control sensor is blocked;
4. in the vicinity of whether the use of fluorescent lamps.

After excluding the above, if does not work, replace the remote control; If still not working properly, please contact the supplier.
3.5 Input Method Description

<table>
<thead>
<tr>
<th>Input Method</th>
<th>Icon</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>English-sensitive switch</td>
<td>Shift</td>
<td></td>
</tr>
<tr>
<td>IME conversion</td>
<td>Ctrl</td>
<td></td>
</tr>
<tr>
<td>When Chinese input, page forward</td>
<td>Pu</td>
<td></td>
</tr>
<tr>
<td>When Chinese input, back flip</td>
<td>Pd</td>
<td></td>
</tr>
</tbody>
</table>
Icon Explanation

<table>
<thead>
<tr>
<th>ICON</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic</td>
<td>Property Page</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Events box</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Box</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drop-down box</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Edit</td>
<td>Editable letters, words, symbols</td>
</tr>
<tr>
<td></td>
<td>Button</td>
<td>Perform certain functions or settings menu to enter the lower level, the text in brackets marked as &quot;Apply&quot;</td>
</tr>
</tbody>
</table>

There are four commonly used function buttons in the menu, defined as follows:

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply</td>
<td>Save menu parameter modification</td>
</tr>
</tbody>
</table>
3.7 Shutdown Description

Enter <<Toolbars>>, click icon, see below:

If necessary, check canceled, shutdown, restart, the pop-up system login dialog box, enter the administrator account and password, and click 【OK】 button to complete the log off, shutdown, restart operations.

Description:
1. the system prompts "The system is shutting down...", please do not press the power ON key, or may not appear normal shutdown process.
2. the device is running, you should try to avoid direct power off (especially when it is recording) via the power switch on the rear panel.
3. the device is running, you should try to avoid direct unplug the power cord (especially when it is recording).
4. under certain circumstances, the power supply is not normal, it will cause the NVR is not working properly, may damage severe NVR. In such an environment, it is recommended to use regulated power supply.
Chapter IV  Preview

4.1 Preview Menu

Preview interface, video, alarm status of each channel can be displayed distinguished by identifying the top right of each channel.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Normal Record</td>
</tr>
<tr>
<td></td>
<td>Motion Record</td>
</tr>
<tr>
<td></td>
<td>Manual Record</td>
</tr>
<tr>
<td></td>
<td>Alarm Record</td>
</tr>
<tr>
<td></td>
<td>Audio preview</td>
</tr>
<tr>
<td></td>
<td>Set Motion Detect</td>
</tr>
<tr>
<td></td>
<td>Trigger Motion Alarm</td>
</tr>
</tbody>
</table>

4.2 Preview convenient operation

Right Show / hide the toolbar, the main window preview mode, you can right-mouse shortcut menu can be electronic amplification, PTZ control, video control, manual drawings and other operations.

Preview shortcut menu
### Main Menu

<table>
<thead>
<tr>
<th>Main Menu</th>
<th>Single Screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four split-screen</td>
<td>Six split-screen</td>
</tr>
<tr>
<td>Nine split-screen</td>
<td>Sixteen split-screen</td>
</tr>
<tr>
<td>Twenty five split-screen</td>
<td>Polling</td>
</tr>
<tr>
<td>IP Channel control</td>
<td>Electronic amplification</td>
</tr>
<tr>
<td>PTZ</td>
<td>Record Control</td>
</tr>
<tr>
<td>System Info</td>
<td>Snapshot</td>
</tr>
<tr>
<td>Playback</td>
<td>Backup</td>
</tr>
<tr>
<td>Shutdown</td>
<td></td>
</tr>
</tbody>
</table>

### 4.3 Preview parameter settings

The basic configuration settings preview

Enter Toolbars - <Main menu> - <System> - <Preview> - <Basic> Interface, set the audio preview, Alarm Display port, alarm screen switching time, switching time polling.
Wheels tour map configuration

Enter <Toolbars> - <Main menu> - <System> - <Preview> - <Monitor> interface, setting the split mode, four-split screen mode, select a channel to close and open the drop-down list in the channel preview.

Note: In the beginning of polling state, set a good save immediately after entering the polling mode settings.
4.4 Preview channel settings

After the preview screen to select a channel, click Enter the picture parameter setting interface
After entering the picture parameter setting interface can be set to various image parameters and ISP Parameters (Click the bottom right Enter the ISP parameter settings).

Chapter V  Front-end device management

5.1 Front-end status display

Click on the preview screen  Device status list into the distal end, as shown, the device can be observed connected device IP, port number, physical address, protocol, connection status information;

Press Can enter the picture parameter setting interface, as shown in Figure

Press Edit to enter the login screen, the device can address, user name, password, port, and protocol for
editing, as shown:

Press The device can be removed.

5.2 Front-end equipment search

In front of the device status list screen, click , Into the front-end equipment list interface:
5.3 Adding and modifying IP headend equipment

After selecting IPC devices to be connected in the device list, click on the bottom right corner button, the device can be added.

Adding equipment required to fill in the user name and password, as shown on the right:

If you need to connect more devices, click , After entering a user name and password to add devices, the device according to the device list from top to bottom in turn added to each channel.

In addition to these automatically added equipment, but also click Manually add, fill in the device IP address, user name and other information to the
login screen, shown in Figure

In front of the device list, select a device, click enter the IP interface to modify, re-set the configuration of the device MAC address, IP address, subnet mask, gateway, etc. In this interface, you can click OK to complete the modification, as shown in Figure

Chapter VI PTZ control

6.1 PTZ basic configuration

Enter Toolbars - <Main menu> - <Camera> - <PTZ> - <Basic> select the channel you want to set for presets, track, cruise lines set.

Select the channel you want to enable PTZ operation, check the Enable PTZ interface as shown:
➢ In the text box, enter the address of the PTZ PTZ address, baud rate and select PTZ PTZ protocols.

Description: PTZ address should dial code consistent, consistent baud rate, protocol parameters with PTZ and PTZ.

After checking PTZ watch, click on the right side of the head watchman [Setup] button, the interface as shown:

Select the watch period, only check the preset point, cruise, a set of tracks, the setup is complete, click [Preview] button to enter the preview screen, right to return to the <Camera> interface; click OK button to return to the <Basic> interface, set successfully.

Description: PTZ preset point can only watch, cruising, track one (linkage state mutex setting).

If you need to modify the other channels, repeat the above steps; If the same channel settings, click [Copy] button to copy into other channels.

6.2 PTZ control interface

Click on the toolbar, Pop <PTZ Control> Interface, click Show the Advanced Settings section, As shown:

Description: PTZ control operation by <PTZ control> interface.
### PTZ control interface description

<table>
<thead>
<tr>
<th>Icon</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>🎥</td>
<td>Select the PTZ channel</td>
</tr>
<tr>
<td>🎥</td>
<td>Set PTZ rotation speed</td>
</tr>
<tr>
<td>🎥</td>
<td>Arrow keys: right head up, down, left and right direction controls</td>
</tr>
<tr>
<td>🎥</td>
<td>Middle button: zoom the preview channel</td>
</tr>
<tr>
<td>🎥</td>
<td>Adjust zoom + focus + aperture +</td>
</tr>
<tr>
<td>🎥</td>
<td>Adjust zoom - focus - aperture -</td>
</tr>
<tr>
<td>🎥</td>
<td>Light</td>
</tr>
<tr>
<td>🎥</td>
<td>Wipers</td>
</tr>
<tr>
<td>🎥</td>
<td>Fan</td>
</tr>
<tr>
<td>🎥</td>
<td>Heater</td>
</tr>
<tr>
<td>🎥</td>
<td>Menu</td>
</tr>
<tr>
<td>🎥</td>
<td>Callback</td>
</tr>
<tr>
<td>🎥</td>
<td>Stop</td>
</tr>
<tr>
<td>🎥</td>
<td>Setting</td>
</tr>
</tbody>
</table>

### 6.3 PTZ preset points, cruising, track settings and callback

Enter `<Toolbars>` - `<Main menu>` - `<Camera>` - `<PTZ>` - `<Advanced>` Interface, select the
channel to be set after a preset point on the trajectory, cruise lines set.

**Preset settings and callback**
Click on the right side of the set point [Setup] button, go to <PTZ> interface, select the preset number, click on the [Setup] button, go to "Settings" interface, PTZ control keys to adjust PTZ position, click OK button to return to <PTZ control> interface, set successfully.
To set more presets, repeat the above operation.
After setting the preset, select the preset number, click [callback] button to return to the setup PTZ preset point already.

**Cruise set, stop callback**
Select cruise number, click on the right cruise [Setup] button, enter the number of the <cruise Edit> interface, as shown:

Select the preset number, click [Preview] button to enter the preview screen, click [Add In] button, cruise points added successfully.
Select the speed and residence time in the drop-down list in the speed and residence time.

Description: Cruising speed is the speed of the head from one to another preset, the residence time is the stay at the preset time.
To add another cruise point to repeat the above operation.
After the setup is complete, click [Preview] button to enter the preview screen; click [Reset] button to clear the setting; click [Save] button to return to the <PTZ control> interface, set successfully.
To set the number of cruise path repeat the above operation.
Select the cruise path number, click [Call] button to invoke the callback cruise path settings; click [Stop] button to stop the cruise path.

Track set and callback
Running track for recording head of the line, click on the right track [Settings], check the track record started, click OK button to return to <PTZ control> interface for PTZ various control operations, for example: up, down, left, and right directions of the control.

Click Settings on the right track to complete the [Setup] button, enter <Track> interface, check the end of the track record, click [OK] button to return to the PTZ control interface.

Click on the right track [Call] button to invoke the callback set track; click [Stop] button to stop the track.
If you want to set up multiple channels, all repeat the above operation.
Chapter VII Of the video and capture

Description: 1 in the previous set of encoding parameters, make sure that the equipment has been installed hard drives and completed initialization.
2 set encoding parameters IPC channel device must advance properly connected NVR, otherwise it cannot be set.

7.1 Encoding parameters

Parameter Description

【Camera】 Select the channel number

【Stream Type】 Optional composite stream and video stream, select the stream indicates that the composite video and audio recording channels are open, select the video stream represents only open video.

【Resolution】 Main stream resolution refers to the type of IPC code configurations, such as 1080P, 720P

【Frame rate】 Frame rate refers to the connected IPC frame rate, P system: a / s -25 frames / sec; N system: a / s -30 frames / sec

【Bit Rate Type】 Selectable constant bit rate and variable bit rate. Under variable bit rate quality adjustable constant bit rate quality is not adjustable

【Bit Rate】 The rate refers to the size of the connected IPC. When the bit rate constant bit rate type, bit rate of 128kbps ~ 12Mbps size can be set; If the bit rate type is variable bit rate, bit rate - the maximum size of a minimum six-speed adjustable

Common video parameter settings

Enter «Toolbars» - «Main menu» - «Record» - «Normal» Video parameter is common for some of the common parameter settings when recording, according to the needs of the channel, stream type, resolution, frame rate, type drop-down list bit rate, bit
rate or quality, select the relevant option, click [Save & exit] button, set successfully.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click [Copy] button to copy into other channels.

Description: When the bit rate constant stream type, bit rate can be selected when the bit rate for the variable rate type, you can select the picture quality.

**Event recording parameters**

Enter <Toolbars> - <Main menu> - <Record> - <Event> interface, event recording parameters are triggered motion detection, video covering some parameter settings when video loss, according to the demand in the channel, stream type, resolution, frame rate, bit rate type drop-down list, bit rate or quality, Quotations time, delay time, select the relevant option, click [Save & exit] button, set successfully.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click [Copy] button to copy into other channels.

Description: pre-recorded time is set to advance into the video at the start arming time, delay time is the time delay after the end of armed recording time

**Sub-stream settings**

Enter <Toolbars> - <Main menu> - <Record> - <sub stream> Demand select the relevant option in the drop-down list channel, resolution, bit rate based on, click [Save & Exit] button, then Settings successful sub-stream suitable for image transmission on a low-bandwidth network.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click [Copy] button to copy into other channels.
7.2 Timer recording

Click on the toolbar, Pop <Record> interface, check the video channel will be timed in the automatic recording, as shown here:

Enter <Toolbars> - <Main menu> - <Record> - <Schedules> interface, check the video, for example, check the timer recording, at a scheduled time table, hold down the left button and drag to set the time continuously click you can set an hour, the color can be changed to a small table in the corresponding color, click [Save & exit] button, set successfully.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click [Copy] button to copy into other channels.
7.3 Motion detection recording

Enter <Toolbars> - <Main menu> - <Camera> - <Motion> interface, select the motion detection recording channel you want to, check the Enable motion detection, interface displays as shown:

Click on the right side enabled mobile detection [Setup] button, or click the left button and drag to draw motion detection area needs to draw finish area, right to return to <motion detection> interface;

Select the appropriate sensitivity sensitivity drop-down list;

Arming time to choose a custom schedule, and then click on the [Setup] button to set the time for deployment.

Check the big screen alarm, sound alarm, trigger channel recording, trigger the alarm output triggered PTZ, send e-mail (required election to enable e-mail notification, set the reference 8.4).
Click [Save & Exit] button, the setting is successful.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click [Copy] button to copy into other channels.

### 7.4 Alarm recording

**Alarm status**

Enter <Toolbars> - <Main menu> - <System> - <alarm> interface, you can view the alarm input and output alarm name, Channel address, alarm type, delay time, as shown:

**Alarm Input**

First select the trigger channel.

Enter <Toolbars> - <Main menu> - <System> - <alarm input> interface, select the alarm input serial number, click on the name of the next alarm [Setup] button, enter the name of the alarm setting interface, editing is completed after Click on OK button to return to <alarm input> interface, select the input device type, set the schedule time reference 4.3.

If you need an alarm input processing, check the alarm input processing, as shown:

Check the linkage screen display, audible alarm linkage, linkage video camera linked, the linkage alarm output, linkage PTZ, linkage Email notifications can be linked video camera linked channels and settings checked.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click [Copy] button to copy into other channels.

- Description: PTZ linkage is set in only after preset point, cruise, track, no action one, setup is complete you can click the [Preview] button to enter the preview
screen, and then click the right, back to the PTZ settings interface.

**Alarm Output**

Enter <Toolbars> - <Main menu> - <System > - <alarm > - <alarm output> interface, alarm output number 1, set the alarm name and latency.

---

### 7.5 Manual recording

Click the icon on the toolbar, pop-up <Record> interface will automatically check the video recording of the channel manually, as shown below:

Click OK, the preview screen to enter the manual recording, manual recording when you want to stop, and then click on the icon on the toolbar, pop-up <Record > interface, recording will be stopped manually or automatically turn off the channel check.

---

### 7.6 Snapshot

**Grab parameter settings**

Enter <Toolbars> - <Main menu> - <Video Configuration> - <capture parameter> Interface, drawings and manual capture trigger parameter settings in the alarm recording, motion detection recording time.
In the picture resolution, image quality, capturing the number of drop-down list, select the time interval parameters. After setting, click [Save & Exit] button to return to the previous menu, set successfully.

**Manual capture**
Click the icon on the toolbar, be shot.

---

**Chapter VIII  Playback**

**8.1 Introduction playback interface**

Playback Button Function Interface

<table>
<thead>
<tr>
<th>Push button</th>
<th>Explanation</th>
<th>Push button</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Single screen / quad screen" /></td>
<td>Single screen / quad screen</td>
<td><img src="image" alt="Start / Stop Cut" /></td>
<td>Start / Stop Cut</td>
</tr>
<tr>
<td><img src="image" alt="Pause / rewind" /></td>
<td>Pause / rewind</td>
<td><img src="image" alt="Pause / Play" /></td>
<td>Pause / Play</td>
</tr>
</tbody>
</table>
8.2 Video Playback

Select dates need to query the channel, video type, the interface will display the day of recording, videos of different colors to identify different types of clicking on the toolbar.

To play back the recording period, by clicking on the icon, select the video on the timeline starting time scale bar appears double-click, and then by clicking on the icon, select the video in the timeline after the end of the time scale appears double-clicking or by clicking icon set play time, the pop-up dialog box to set the playback time, as shown:

Click the button or button to enter <Playback> interface.
8.3 Accessibility

Electronic amplification

During playback, click the icon to enter the digital zoom interface,
You can click on the picture to enlarge, click on the top, bottom, left and right buttons to move the area; Tap to return to the original screen.
Chapter IX  Backup

Local pictures and videos using a USB device backup (U disk, mobile hard disk, burner) captured images and videos for backup.

9.1 Local Image Backup

Enter <Toolbars> - <Main menu> - <Backup> - <Image> interface, select the channel and date to be backed up, click [Query] button, the channel and the day of the local picture instantly displayed.

Check the file to be backed up, and then click [Backup] button on the pop-up <Picture export> dialog box, click the [Detect Device] button, and other testing is completed, select the picture you want to save the partition, and then click [Export] button start the backup.

- Note: One day only query the local picture, pictures date is yellow font.
9.2 video backup

Click the icon on the toolbar, pop up interface, select Admin user, enter the correct password, and click OK button to enter the video backup interface, as shown:

Click on the icon to bring up the add a backup clip, can add up to 16 time period, after completion of the addition, the default is checked;

Click [detection] button, the tests are complete, the specified partition backup, select the file type, select the
channel you want to back up.

Click [Start] after the backup, the backup is complete, a dialog box pops up backup success.

Enter <Toolbars> - <Main menu> - <Search> - <Video> interface, click [Refresh]
Chapter X  Alarm

10.1 motion detection alarm

Enter <Toolbars> - <Main menu> - <Camera> - <motion> interface, select the motion detection recording channel you want to, check the Enable motion detection, interface displays as shown:

Click on the right side enabled mobile detection [Setup] button, or click the left button and drag to draw motion detection area needs to draw finish area, right to return to <motion detection> interface;

Select the appropriate sensitivity sensitivity drop-down list;
Arming time to choose a custom schedule, and then click on the [Setup] button to set the time for deployment.

Check whether the actual big screen alarm, sound alarm, trigger channel video capture trigger, trigger alarm output triggered PTZ, send e-mail (required election to enable e-mail notification, set the reference 8.4).

Click [Save & Exit] button, set successfully.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click [Copy] button to copy into other channels.

10.2 Alarm Input

Alarm Input

Enter <Toolbars> - <Main menu> - <System Configuration> - <alarm input> interface, select the alarm input the serial number, click on the name of the next alarm [Setup] button, enter the name of the alarm setting interface, editing When finished, click the OK button to return <alarm input> interface, select the input device type, set the schedule time reference 4.3.

➢ Note: Normally open: usually open, turn the circuit has triggered alarm signal; normally closed: usually a short circuit, open circuit when the alarm signal is triggered.

For alarm input processing, check the alarm input processing, as shown:
Check whether the actual linkage screen display, audible alarm linkage, linkage video, linkage alarm output, linkage PTZ, linkage Email notifications can be checked after the linkage video for channel settings.

- **Note:** After the linkage PTZ settings can only be done on the preset point, cruise, track, no action in one setting can click [Preview] button, you can enter the preview screen, and then click the right, on the back of PTZ the settings interface, and after completing the settings, click OK button.

### 10.3 Exception Handling

- **Note:** An exception is an abnormal event set alarm handling, exception events include full disk group (with hard disk space is full), hard disk error (Error writing hard disk or hard disk not initialized), disconnected from the network (not connected to the network cable), IP conflicts, illegal access (user password wrong) and so on.

Enter <Toolbars> - <Main menu> - <exception > interface, a variety of unusual events and each channel to be set.

Please refer to the way the police handled 10.4 alarm processing.

### 10.4 Alarm processing

- **Note:** When an alarm occurs, the display can be linked (a channel when an alarm occurs, the channel preview screen zoom display), the linkage audible warning (beep), linkage video, linkage alarm output, linkage PTZ, linkage Email notification alerts.

#### Linkage Screen Display

When an alarm occurs, When in preview mode, switch out the local output port (HDMI and VGA) on the set "alarm screen pop-up" approach channel image, if there is more than one channel alarm occurs, every 10 seconds (by default, through the "Preview configuration" interface "alarm screen switching time" shall be revised) to conduct a single screen switching, alarm stop, stop switch, return to the preview screen.
Note: the need to "trigger channel" Set alarm screen channel.

**Linkage audible warning**
When an alarm occurs, the device will beep a warning

**Reported to the alarm center**
When NVR event of an alarm, exception events, you can take the initiative to send this signal to run a remote alarm host (install network video surveillance software PC).

Note: When listening mode, set the alarm center, you can take the initiative to upload alarm information.

**Linkage alarm output**

- **Note:** When the alarm occurs, you can set the linkage alarm output.
  Enter <Toolbars> - <Main menu> - <System Configuration> - <alarm settings> - <alarm output> interface, alarm output number 1, set the alarm name and latency.

Note: If the delay time is selected to remain, when an alarm occurs, the system state only through the toolbar in the "Clear Alarm" button to clear.

**Linkage Email notification**

- **Note:** When an alarm occurs, the alarm information by mail to users in a timely manner to inform the user alarm occurrence.
  Mail Settings See 8.4 EMAIL.

### 10.5 Manually clear the alarm status and alarm

- **Note:** System Status screen can be viewed through the signal loss, video motion, alarm input, alarm output, system status inquiries, if the alarm delay time is set to remain, until the alarm through the interface of the "Clear Alarm" button to clear.

Click the icon on the toolbar, as shown pop System Status screen displays information about video motion, alarm input, the system state.
If you need to clear the alarm, click the [Clear alarm] button.

Chapter XI Network Settings

11.1 Network Settings

11.1.1 Basic Configuration

Enter <Toolbars> - <Main menu> - <System> - <Network> - <Basic> Interface, the basic configuration interface in the network settings menu, set the network parameters.

Network interface parameters

Set the IP address, gateway, ports, PPPoE dial-up, DNS and other information on the local client, the setup is complete, click [Save & Exit] button to force entry in the browser, for example: http://192.168.1.221/, remote monitoring, the local IP and IP address settings should be in the same network segment.

Remote access port parameters

Signaling port for client devices connected to the system to access the WEB page, the receiving signaling operations, such as: login, etc., the default is 6060; media port for client systems to connect data, receive media streaming, for example: voice, pictures, text, etc., the default port is: 6066; mobile phone access port in the browser for mobile phones to remotely monitor, the default port is: 10000, these ports are generally not recommended to make changes, as shown:

Note: If you check the "start automatically obtain IP", click on the "Update" button to obtain IP-related information, and then click [Save & Exit], to take effect.
11.1.2 Network error alarm

- Note: If the IP conflict, network alarm processing can be performed off-line. Enter <Toolbars> - <Main menu> - <System > - <Exception> Interface.
- Note: Network exception handling methods are sound warning, upload alarm center, Email linkage, linkage alarm output.

11.2 PPPoE

Enter <Toolbars> - <Main menu> - <System Configuration> - <Network > - <PPPoE> interface when connecting xDSL network, users can PPPoE dialing through the machine equipment, check the Enable PPPoE, enter the user name and password, and click [Update] button, then click [Save & exit], the setting is successful, as shown:

- Note: PPPoE user name and password obtained from the operator. After setup is complete, the device will reboot automatically dial, dial-up network information can be displayed in the success of the network state.
11.3 DDNS
Enter <Toolbars> - <Main menu> - <System Configuration> - <Network> - <DDNS> interface, select the Enable DDNS, the DDNS DDNS server interface options, the device domain: the user's own application domain (in dyndns domain name applications on the website), the user name and password are registered on the site dyndns account and password, after completing the settings, click 【Save & exit】. the setting is successful, as shown in Figure:

11.4 EMAIL
Enter <Toolbars> - <Main menu> - <System > - <Network> - <EMAIL> Interface, Configuration settings.
When the linkage Email notification when an alarm is triggered, the alarm events reported by e-mail, set the SMTP server, sender, recipient's mailbox and other information, click【Test】 button, send a test message pop-up dialog box prompts successfully sent successfully,
Failed to send pop-up boxes prompt transmission fails, as shown in Figure:

➢ Explanation：When you need to enter the mail server check secure connection and authentication, authentication based on the actual situation of the SMTP server user name and password
Chapter XII  User Management

Enter <Toolbars> - <Main menu> - <System> - <User management> interface, this interface the administrator user can add, edit, edit the user information, and set permissions.

- **Explanation**: Ordinary users can only change their own passwords.

Click the 【Add User】 button, Adding new users.

After the selected users, modify user permissions, Click the 【Set permissions】 button to set permissions to limit the operating authorization or permission of the user.
Click 【Edit User】 button to modify the user password of the current user.

Note: The default user name and password: Admin and 123456.

Chapter X III Disk Management

13.1 HDD status inquiries and Disk Management

Explanation: According to the state of the hard drive, hard disk problems found in a timely manner, to question the hard processing, reduce losses.

Enter <Toolbars>-<Main menu>-<Disk Management> Interface, check the hard drive status queries and other operations.

Explanation: HDD status is normal or being written in the state to normal use, if the hard disk is not initialized or abnormal state, that is not normal; uninitialized or abnormal operation to initialize the hard drive please, if successful, replace the hard drive.

13.2 HDD alarm

Enter <Toolbars>-<Main menu>-<System>-<Exception> Interface, hard disk failure, disk group is full, the disk group exceptions, the police can handle.

Explanation: Hard disk error alarm warning sound manner, upload alarm center, Email linkage, linkage alarm output.
Chapter IV  Channel settings

14.1 OSD Set up

Enter <Toolbars> - <Main menu> - <Camera> - <OSD>, including local preview OSD display time and channel name.
Select the channel you want to set, click on the channel name under the 【Setup】 button to pop up the channel name editing interface, edit the channel name, after editing is complete click OK button to return to the OSD configuration interface, check the display name and display time, click on 【OSD position】 button to enter the preview screen, press and hold the left button and drag the time bar to be placed onto the location, right preview screen to return to the OSD configuration interface.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click 【Copy】 button to copy into other channels.

14.2 Video Mask set

Enter <Toolbars> - <Main menu> - <Record> - <Mask> for monitoring live images in certain sensitive areas or involving privacy cover.
Select the channel you want to set, check the Enable video Mask, check the Enable video cover, the interface shown in Fig :
Click 【Settings Mask Area】 button, enter the preview settings screen, click or drag designated covered area, if you need to cancel demarcated area, click the area to cover, after completing the settings, right-return video cover interface.

If you need to modify the other channels, repeat the above steps; If the same channel settings, click 【Copy】 button to copy into other channels.

➢ Explanation: Each channel can have up to four block area.

Chapter X V Equipment maintenance and management

15.1 System Information

15.1.1 Basic Information

Enter <Toolbars> - <Main menu> - <System> - <Info> - <device>, shows the basic setup information.
15.1.2 Camera Status

Enter <Toolbars> - <Main menu> - <System> - <Info> - <Camera> interface, display settings for each channel motion detection, video detection, video covering the relevant information.

15.1.3 Record Status

Enter <Toolbars> - <Main menu> - <System> - <Info> - <Record> Display settings for each channel.
15.1.4 Alarm Status

Enter <Toolbars> - <Main menu> - <System > - < Info> - < Alarms> alarm settings information.

15.1.5 Network Status

Enter <Toolbars> - <Main menu> - <System > - < Info> - <Network > Network Settings to display the relevant information.
15.1.6 HDD status

Enter <Toolbars> - <Main menu> - <System> - <Info> - <HDD> interface, SATA hard drive operating status display, model, total capacity, remaining capacity, type.

15.1.7 Online Users

Enter <Toolbars> - <Main menu> - <System> - <Info> - <Users Online> display user login, login will display local and remote login IP of the machine, login time and other information.
15.2 Log Information

Enter <Toolbars> - <Main menu> - <System> - <log>, administrators can query information related operations.

a. Select the log type you want to query: All, alarm events, unusual events, storage management;

b. Select a time range to be queried;

c. Click 【Query】 button, the interface displays detailed information immediately, as shown in Figure:

- Explanation: If the search logs more than 10,000, the system will display the previous 10,000.

If you need to export the information in the list, click 【Export】 button to bring up the export log interface shown in Figure:

- Explanation: Before exporting the log backup devices must first connect the USB interface.
15.3 Configuration Management

Enter <Toolbars> - <Main menu> - <System > - <Config > Interface, the device configuration import and export.

Configuration Export

➢ Explanation : Before exporting the configuration required to connect the backup device USB interface;

Click 【Refresh】 button, the interface displays the mount point device, as shown in Figure ;

Double-click the partition you want to back into the partition to be backed up, click 【Export】 button to export the configuration file to export the time named XML file, as shown in Figure ;

Configuration import

➢ Explanation : Before you import the configuration required to connect the USB interface, you must first have a device configuration file stored after the import operation, the proposed device is restarted.

Select the profile you want to import, and click 【Import】 button, pop-up boxes, as shown in Figure :

Click the 【OK】 button, a dialog box pops up whether to restart immediately as shown in Figure :

15.4 Upgraded version

Enter <Toolbars> - <Main menu> - <System > - < upgrade> interface equipment
upgrade.

Explanation : Before exporting the configuration required to connect the USB interface to put the device has an upgraded version of the file.

Click 【Refresh】 button, the interface displays the mount point device, double-click the partition placed an upgraded version of the file, enter as shown in Figure :

Select the upgrade file, for example : update.tar.gz.

Click 【Upgrade】 button, the upgrade is completed, as shown in Figure :

15.5 Default Configuration

Enter <Toolbars> - <Main menu> - <System> - <Restore> interface, the configuration device to the factory settings, as shown in Figure :
Click the 【OK】 button, the pop-up box, as shown in Figure: