Performance Series Full PoE Network Video Recorder

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Remote User Guide
## Revisions

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<tr>
<td>A</td>
<td>08/2015</td>
<td>New document. (Based on 800-20017)</td>
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<tr>
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<td>Added a note in the Configurations section, table 3-2.</td>
</tr>
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About This Document

This document describes how to access Honeywell’s Performance Series Full PoE Network Video Recorder remotely using a browser-based web client.

This document is intended primarily for remote users.

Overview of Contents

This document contains the following chapters:

- Chapter 1, Logging In
- Chapter 2, Live Viewing
- Chapter 3, Configuration
- Chapter 4, Playback
- Chapter 5, Alarms
Related Documents

For more information about using the Performance Series Full PoE Network Video Recorder, refer to the following documents:

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<td>800-21090</td>
</tr>
<tr>
<td>Performance Series IP NVR Quick Connection Guide</td>
<td>800-21088</td>
</tr>
<tr>
<td>Performance Series IP NVR Quick Network Guide</td>
<td>800-21089</td>
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* These part numbers are subject to change. Please consult the Performance Series Full PoE Network Video Recorder product webpage for the latest versions of these documents.
Logging In

This chapter includes:

- PC requirements for the web client software
- Logging in to the web client software
- The web client software’s main page

Preparing to Use the Device Web Client

PC Requirements

<table>
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<th>Minimum Requirement</th>
</tr>
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<tbody>
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<td>Processor</td>
<td>Quad core</td>
</tr>
<tr>
<td>System memory (RAM)</td>
<td>2G or higher</td>
</tr>
<tr>
<td>Non-integrated video card</td>
<td>256M or higher</td>
</tr>
</tbody>
</table>

Before You Log In

Ensure that the following conditions are met:

- Ensure that the network connection is good.
- Ensure that the NVR and PC network setup is correct. See the network setup: Main Menu > Setting > Network.
- Ping to ensure that the network connection is good. Ping *** *** *** *** (where *** *** *** *** is the NVR’s IP address). The return TTL should be less than 225.
Before you uninstall the web control, close all web pages. If you do not, then the uninstallation procedure might result in an error.

- The current NVR supports various browsers such as Apple Safari and Mozilla Firefox. The NVR supports multiple-channel monitoring (depending on your model) on an Apple PC.

**Logging In**

1. Open a Web browser window.

   **Note** These instructions were created using IE. You can use Internet Explorer (IE), Safari, or Firefox.

2. Enter the NVR IP address in the address field.
For example, if your NVR’s IP address is 192.168.1.108, then enter http://192.168.1.108 in the address field.

A message pops up asking if you want to install controls.

**Figure 1-2  Controls Installation Popup Message**

![Controls Installation Popup Message](image)

3. Click **Install** to install the controls.

**Note**  
The relevant plug-ins might be blocked by your web browser security settings. See **Figure 1-3**.

**Figure 1-3  Unblocking Security Plug-ins**

![Unblocking Security Plug-ins](image)

When installation is successful, the **Web Service** login window appears.
4. Enter your username (default: admin) and password (default: admin), then click Login.

**Note** For security, we recommend that you modify your password on your first log in.

---

**LAN Mode**

The LAN main window is divided into 4 main sections. See Figure 1-5. In LAN mode, you can select different channels and different modes at the bottom of the interface.
Section 1: Function Buttons

There are six function tabs:

- **Preview**: You are currently in the Preview (Live) mode, where you can see all these tabs.
- **Playback**: See Local Play Button on page 22
- **Alarm**: See Alarms on page 95
- **Setup**: See Configuration on page 33
- **Info**: See Information on page 30
- **Logout**: See Logging Out on page 25
Section 2: Monitor Channels and Function Buttons

Monitor Channels

The Monitor Channels section displays monitor channels that are successfully connected to the NVR. Left-click to select a channel for viewing, or click Start All.

Note  The Start All button changes to Open All on the GUI.

Main Stream and Extra Stream - Navigate your mouse to a camera channel window to find the Main Stream and the Extra Stream.

The Start All button enables/disables all channels in the real-time monitor. You can also select the Main Stream or the Extra Stream.
Figure 1-8  Main Stream and Extra Stream

Figure 1-9  Start Talk Button

Enabling Bi-Directional Communication

1. Click to enable bi-directional communication.
2. Click ▼ in the control panel on the right to select the bi-directional communication mode. There are four options for the communication mode: DEFAULT, G711a, G711u, and PCM.

Figure 1-10  Talk Mode Options

Note  After you enable bi-directional communication, if the audio input port that goes from the device to the client end is using the first channel audio input port, then the system will not encode the audio data from that one channel. Refer to the Setting Up Bi-Directional Communication Connection section in the User Guide for more about the audio connections.

Disabling Bi-Directional Communication

After turning on Bi-directional Communication, the Start Talk button turns into an End Talk button. Click this button to end bi-directional communication.
**Instant Record Button**

*Figure 1-11  Instant Record Button*

Click **Instant Record**, and the button turns blue. The NVR begins manual recording. Click **Instant Record** again to restore the NVR to the previous recording mode.

**Local Play Button**

The NVR can play back saved files (in the .dav format) in the PC.

1. Click **Local Play**, and an interface appears for selecting the playback file.

*Figure 1-12  Local Play - Select a File Interface*

2. Select a file, then click **Open**. A media player opens and plays the selected video.

**Section 3: PTZ Control Panel, Image and Alarm Configuration Panels**

**PTZ Control Panel**

Refer to the **User Guide** for more about controlling PTZ cameras.

**Image and Alarm Configuration Panels**

Refer to the User Guide or see *Configuring Image Settings on page 29* for more information about Image settings.

Refer to the User Guide or see *Alarms on page 95* for more information about Alarms.
Section 4: Viewer Configuration Controls

Table 1-2 Viewer Configuration Controls

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<td></td>
<td>Video Quality</td>
<td>Click to select the video quality. Select either <strong>High</strong> quality or <strong>Low</strong> quality.</td>
</tr>
<tr>
<td></td>
<td>Fluency</td>
<td>Click to configure the fluency. Select from <strong>Fluency Level 1</strong>, <strong>Fluency Level 2</strong>, <strong>Fluency Level 3</strong>, <strong>Middle level</strong>, <strong>Latency Level 1</strong>, <strong>Latency Level 2</strong>, and <strong>Latency Level 3</strong>.</td>
</tr>
<tr>
<td></td>
<td>Full Screen</td>
<td>Click to switch the viewer to show video full screen. Click <strong>Esc</strong> (on your PC) to quit full screen.</td>
</tr>
<tr>
<td></td>
<td>Vertical Synchronization</td>
<td>Click to configure vertical synchronization.</td>
</tr>
<tr>
<td></td>
<td>Single-channel Window</td>
<td>Click to switch to single channel viewing.</td>
</tr>
<tr>
<td></td>
<td>Four-channel Window</td>
<td>Click to switch to switch to four channel viewing.</td>
</tr>
</tbody>
</table>
The Difference Between LAN and WAN

- In WAN mode, by default, the NVR system opens the main stream for the first channel and displays it on the monitor. The Open/CLOSE button in the left pane does not work.

Note The window display mode and the channel number are assigned by default. For example, for the 16-channel NVR, the maximum window split is 16 screens.

- When in Multiple-channel monitor mode, the NVR system assigns an extra stream to monitor, by default. Double-click a channel, and the NVR system switches to a single channel in the monitor. There are two icons in the top left corner of the channel. M means Main Stream. S means Sub Stream.

- If you log in through WAN mode and are using the video function, then the NVR system does not support alarm activation in the Alarm Setup interface.

Note For the Multiple-channel monitoring mode, by default, the NVR system assigns an extra stream for monitoring. For each channel, the NVR supports both a Main stream and a Sub stream. For one-channel live viewing, the Main Stream is used; for Multiple-channel viewing, the Sub Stream is used. In multiple-channel mode, all channels try to synchronize the time setting to the network, but the ability to synchronize depends on your network settings.
Note Because of bandwidth limitations, the NVR system can not support monitoring and playback at the same time. To enhance search speed, the NVR system automatically closes the monitoring or playback interface when you are searching for recorded video in the configuration interface.

Logging Out

Click the Logout tab in the Main Menu. The NVR returns to the Login interface.

Uninstalling the Web Control

You can use the web un-install tool uninstall_web.bat to uninstall the web control plugin.

Note Before un-installing the web control plugin, close all web pages. If you do not, then you might experience an error.
Live Viewing

This chapter includes:

- A description of the NVR web client.
- Descriptions of image/relay output settings, including image settings.
- Descriptions of the Information available for viewing in live view, including system version, log, connection log, and online user information.

Live Viewing

Left-click a channel name in Section 2, the Monitors Channel section, to select that channel for viewing.

The video window shows statistics about the video.
### Live View Video Window Controls

**Table 2-1**

<table>
<thead>
<tr>
<th>Control</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display Device Information</strong></td>
<td>Shows the following information about the video:</td>
</tr>
<tr>
<td></td>
<td>- IP address</td>
</tr>
<tr>
<td></td>
<td>- Channel number</td>
</tr>
<tr>
<td></td>
<td>- Bit rate</td>
</tr>
<tr>
<td></td>
<td>- Stream: Select either <strong>M</strong> for Main stream or <strong>S</strong> for sub stream.</td>
</tr>
<tr>
<td><strong>Digital Zoom</strong></td>
<td>Click this button and then left drag the mouse in the zone to zoom in.</td>
</tr>
<tr>
<td></td>
<td>Right-click the mouse to return to the original viewing status.</td>
</tr>
<tr>
<td><strong>Local Record</strong></td>
<td>When you click the <strong>Local Record</strong> button, the system/NVR begins recording.</td>
</tr>
<tr>
<td></td>
<td>The recorded file is saved to the default system folder: \RecordDownload.</td>
</tr>
<tr>
<td><strong>Close Window</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Snapshot</strong></td>
<td>Click to take a snapshot of the currently viewed video. All images are saved to the default system folder: \picture download.</td>
</tr>
</tbody>
</table>
Image/Relay-out Settings

Configuring Image Settings

Here you can adjust the selected channel’s brightness, contrast, hue, and saturation.

1. Click to select one channel’s video. The currently selected channel border turns Green to indicate it is selected.

2. Click the Image adjustment buttons in Section 8. See LAN Mode Main Window on page 19.

Table 2-3  Image Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Brightness" /></td>
<td>Adjusts the monitor’s video brightness.</td>
</tr>
<tr>
<td><img src="image" alt="Contrast" /></td>
<td>Adjusts the monitor’s video contrast.</td>
</tr>
<tr>
<td><img src="image" alt="Hue" /></td>
<td>Adjusts the monitor’s video hue.</td>
</tr>
<tr>
<td><img src="image" alt="Saturation" /></td>
<td>Adjusts the monitor’s video saturation.</td>
</tr>
<tr>
<td><img src="image" alt="Reset" /></td>
<td>Restores the system to its defaults value.</td>
</tr>
</tbody>
</table>

To return the NVR system to default settings, click Reset.
Note  All of these configurations apply to the Web Viewer only.

Information

Version

1. Click the arrow next to System to expand the System menu tree.
2. Click Version to open the Version configuration interface.

![Figure 2-3  Version Configuration Interface](image)

Here you can view the recording channel, the alarm input/output information, the software version, and the release date. None of these values can be changed; they are viewable only.

Log

Click Log in the System menu to open the Log configuration interface.
Figure 2-4 Log Configuration Interface

Table 2-4 Log Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start Time</td>
<td>Set a start time for the log.</td>
</tr>
<tr>
<td>End Time</td>
<td>Set an end time for the log.</td>
</tr>
<tr>
<td>Type</td>
<td>Select from System Operation, Configuration Operation, Data Operation, Event Operation, Record Operation, User Management, Log Clear, and All.</td>
</tr>
<tr>
<td>Search</td>
<td>Click Search to find a log or logs that fit the search requirements (Begin time, End time, and Type). You can click Stop to terminate the current search.</td>
</tr>
<tr>
<td>Detailed Information</td>
<td>Select one item to see its detailed information.</td>
</tr>
<tr>
<td>Clear</td>
<td>Click to clear the found log files.</td>
</tr>
<tr>
<td>Note</td>
<td>You can not clear by log file.</td>
</tr>
<tr>
<td>Backup</td>
<td>Click to backup the currently selected files to the selected PC.</td>
</tr>
</tbody>
</table>

Connection Log

1. Click Search to open the Connection Log interface.
2. Set a **Start** and **End Time**, select a **Channel**.

3. Click **Search** to find the connection log.

**Online User**

Click **Online User** in the **System** menu to open the **Online User** interface.

**Figure 2-6   Online User Configuration Interface**

You can see what users are currently online.
Configuration

This chapter includes descriptions about how to configuring the following:

- Camera setup
- Network setup
- Event settings
- Storage
- General settings, including the following:
  - the device’s name and number
  - the interface language
  - the video standard
  - what happens when the HDD is full
  - the pack duration

Setup

Configuring the Camera Setup through the Remote Interface

If the NVR connects to an IP camera through a private protocol, then the **Camera Conditions** page displays. If the NVR connects to an IP camera through the ONVIF protocol, then the **Camera Conditions** does not display.

**Configuring Camera Image Settings**

In the **Camera Conditions** window, you can view the camera device properties. Any changes are immediately active after you set them.

Click **Camera** under **REMOTE** to open the **Conditions** interface.
**Note** The NVR automatically defaults to selecting channel 1 when you navigate between configuration interfaces. For example, if you have selected channel 3 on the Video&Audio configuration interface, and then navigate to the Channel Name configuration interface, the NVR defaults to channel 1 in the Channel selection drop-down.

---

**Figure 3-1 Camera Conditions Interface**

![Camera Conditions Interface](image)

**Table 3-1 Camera Conditions**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| Channel  | Select a channel from the dropdown list.  
**Note** The NVR shows only the number of connected cameras. |
| Scene    | Select a pre-programmed scene selection for different kinds of lighting conditions for various times of the day. Select from **Day**, **Night**, **Normal**, or **Switch by Period**. If you select **Switch by Period**, then you configure the times for sunrise and sunset. |
| Saturation | Adjusts monitor window saturation. Select from 0 to 100. The default setting is 50. The recommended range is 40 to 60.  
The higher the number, the stronger the color. This value has no effect on the general brightness of the video. The video color might become too strong if the value is too high.  
**Note** If the value is too low, the video might be poor. |
| Mirror   | Enable or disable the mirror function. |
Configuring Encoding Settings

### Configuring the Encoding

Click **VIDEO&AUDIO** under **Remote** to open the **Encoding** interface.

---

**Table 3-1 Camera Conditions**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brightness</strong></td>
<td>Adjusts the monitor window brightness. The default setting is 50. The higher the number, the brighter the video. When you select a value, the bright and dark elements of the video are adjusted. Use this function to adjust video brightness when the entire picture is too dark or too bright. Select from 0 to 100. The recommended range is 40 to 60. <strong>Note</strong> The video might become washed out if you select a high brightness value.</td>
</tr>
<tr>
<td><strong>Contrast</strong></td>
<td>Adjusts monitor window contrast. Select from 0 to 100. The default setting is 50. The recommended range is 40 to 60. The higher the value, the higher the contrast between light and dark elements in the image. Use when the video brightness is good, but the contrast is not. The video might become washed out if you select a low contrast value. If the value is too high, the dark sections might lose brightness and the light parts might become overexposed.</td>
</tr>
<tr>
<td><strong>Sharpness</strong></td>
<td>Affects the edge definition of objects in the image. The higher the setting, the more image detail is apparent. <strong>Note</strong> Noise in the image might become noticeable at higher settings.</td>
</tr>
<tr>
<td><strong>Period</strong></td>
<td>Divide a day (24-hour period) into two periods, then set different sharpness, brightness, contrast, saturation, and gain settings for each period.</td>
</tr>
<tr>
<td><strong>3D NR</strong></td>
<td>Enable/disable 3D noise reduction.</td>
</tr>
<tr>
<td><strong>Flip</strong></td>
<td>Select an angle on which the video will be flipped.</td>
</tr>
<tr>
<td><strong>Light</strong></td>
<td>Adjust Backlight Compensation. Select either Low or High.</td>
</tr>
<tr>
<td><strong>Scene Mode</strong></td>
<td>Select from several configured color modes such as Auto, Sunny, Night, or Customized. Selecting a Scene Mode will adjust the hue, brightness, and contrast of the video. If you select Customized, then you select the hue, brightness, and contrast of the video.</td>
</tr>
<tr>
<td><strong>Day/Night</strong></td>
<td>Select from Colorful, Auto, or B/W.</td>
</tr>
</tbody>
</table>
Figure 3-2  Encoding Interface

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel</td>
<td>Select a channel from the dropdown list</td>
</tr>
<tr>
<td>Code Stream Type</td>
<td>Select from Main Stream, Motion Stream, and Alarm Stream. You can select different encoding frame rates for different recorded events.</td>
</tr>
<tr>
<td>Motion Stream</td>
<td>The NVR system supports active control frame function (ACF), which allows you to record in different frame rates.</td>
</tr>
<tr>
<td>Alarm Stream</td>
<td>For example, you can use a high frame rate to record important events, and configure a lower frame rate for recording scheduled events. ACF allows you to set different frame rates for motion detection recording and alarm recording.</td>
</tr>
<tr>
<td>Video Enable</td>
<td>Click to enable the extra video stream. Enabled by default.</td>
</tr>
<tr>
<td>Compression</td>
<td>The main bit stream supports H.264. The extra stream supports H.264 and MJPG.</td>
</tr>
</tbody>
</table>
Configuring Snapshot Settings

Figure 3-3 Snapshot Settings Interface

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>The NVR system supports various resolutions, which you can select from a dropdown list. <strong>Note</strong> The selection is different for each NVR series. The Performance Series Full PoE Network Video Recorders can automatically detect a connected 720p or 1080p camera’s configured resolution (as 720p or 1080p) But you must manually configure the resolution (960H or below) for analog cameras, and 1080p HQA cameras that are in SD mode.</td>
</tr>
</tbody>
</table>
| Frame Rate       | PAL: 1 to 25 fps  
                             NTSC: 1 to 30 fps |
| Bit Rate Type    | Select either **CBR** (constant bit rate) or **VBR** (variable bit rate).  
                             **Note** If your device is connected to the NVR through ONVIF, then you can not select **VBR**. If your device is connected to the NVR through a private protocol, then you can select either **CBR** or **VBR**. |
| Bit Rate         | **Main Stream:** Select a bit rate to change the video quality. The larger the bit rate, the better the video quality. We recommend that you accept the default bit rate. The GUI also displays the reference bit rate range and frame rate for the selected resolution.  
                             **Extra Stream:** In DBR, the bit rate is the maximum value. For dynamic video, the NVR system will decrease the frame rate or video quality to maintain the bit rate. The value is null for VBR mode. |
| Enable Watermark | Allows you to verify that the video has not been tampered. |
| Watermark String | Enter the text for the watermark. The default watermark is **DigitalCCTV**. The maximum text length is 85 characters. You can use only letters, numbers, and an underline. |

Table 3-2 Encoding Configurations
Table 3-3  Snapshot Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel</td>
<td>Select a channel.</td>
</tr>
<tr>
<td>Mode</td>
<td>Select from two modes: <strong>Timing</strong> (scheduled) and <strong>Trigger</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>Timing</strong>: the snapshot is available during the period you specify.</td>
</tr>
<tr>
<td></td>
<td><strong>Trigger</strong>: the snapshot is available only when a motion detection alarm, tampering alarm, or local activation alarm occurs.</td>
</tr>
<tr>
<td>Image Size</td>
<td>Matches the resolution of the main stream.</td>
</tr>
<tr>
<td>Quality</td>
<td>Select from six quality levels.</td>
</tr>
<tr>
<td>Snapshot Frequency</td>
<td>Set the snapshot frequency. The value ranges from 1s to 7s, or you can set a customized time. The maximum is 3600s/picture.</td>
</tr>
</tbody>
</table>

Video Overlay

Figure 3-4  Video Overlay Configurations
Configuring the Save Path

Configure the save path for snapped images (click in the preview interface) or recorded video (click in the preview interface).

The default save path is \PictureDownload for snapshots and \RecordDownload for recorded video.

Click Browse to change the save path, and then click Save.

Configuring the Channel Name

1. Click Channel Name under REMOTE to open the Channel Name configuration interface.
2. Enter a new channel name, then click **Save**.

### Configuring the Network Setup

**Configuring TCP/IP**

Click **TCP/IP** under **NETWORK** to open the **TCP/IP** configuration interface.
There are two modes: **STATIC** and **DHCP**.

- The IP address, submask, and gateway is inactive and not configurable when you select the **DHCP** mode to automatically search for the IP address.
- If you select **STATIC** mode, then you need to manually configure the IP address, submask, and gateway.
- If you select **DHCP** mode, then you can only view the IP address, submask, and gateway. You can not configure these values.
- If you switch from the **DHCP** mode to the static mode, then you need to reset the IP parameters.
- The IP address, submask, gateway, and DHCP are read-only values when the PPPoE dial is **OK**.

### MAC Address
Displays the MAC address. This field is not configurable.

### MTU
Use the default MTU (maximum transmission unit) value.

### IP Version
Select the IP version, either **IPv4** or **IPv6**.

You can use either version to access the camera’s IP address.

### IP Address
1. Use your PC’s keyboard to enter the **IP address**.
2. Set the **Subnet** mask and **Default** gateway.

### Subnet Mask
If you selected the **STATIC** mode, then enter a **Subnet Mask** value.

### Default Gateway
If you selected the **STATIC** mode, then enter a **Default Gateway** value.

### Preferred DNS
Enter the **DNS IP** address.
Configuring the Connection

Click **Connection** under **NETWORK** to open the **Connection** configuration interface.

### Table 3-5  TCP/IP Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternate DNS</td>
<td>Enter an alternate DNS IP address.</td>
</tr>
</tbody>
</table>

**Note** For the IPv6 version IP address, the Preferred DNS and Alternate DNS shall be no more than 128 digits. They also cannot be left blank.

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAN Download</td>
<td>Enable this function so that the system can process the downloaded data first. The download speed is 1.5X or 2.0X of the normal speed.</td>
</tr>
</tbody>
</table>

### Table 3-6  Network Connection Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max Connection</strong></td>
<td>The maximum Web connection for the same NVR. The value ranges from 1 to 20. The default is 20.</td>
</tr>
<tr>
<td>TCP Port</td>
<td>The default is 37777. You can enter the actual port number, if necessary.</td>
</tr>
<tr>
<td>UDP Port</td>
<td>The default is 37778. You can enter the actual port number, if necessary.</td>
</tr>
<tr>
<td>HTTP Port</td>
<td>The default is 80. You can enter the actual port number, if necessary.</td>
</tr>
<tr>
<td>RTSP Port</td>
<td>The default is 554.</td>
</tr>
<tr>
<td>RTSP Format</td>
<td>A non-configurable field that shows the RTSP format.</td>
</tr>
</tbody>
</table>
Configuring WIFI

1. Click Wifi under NETWORK to open the Wifi configuration interface.

![Wifi Configuration Interface](image)

2. Click to enable Wifi.
3. Double-click the name of a wireless device to connect to it.

**Note** Click Refresh to update the list of wireless network information.

Configuring 3G

1. Click 3G under NETWORK to open the 3G configuration interface.
2. Click the CDMA/GPRS tab to open the CDMA/GPRS configuration interface.
Table 3-7 CDMA/GPRS Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLAN Type</td>
<td>Select a 3G network type to distinguish this 3G module from different ISPs. Choose from <strong>WCDMA</strong>, <strong>CDMA1x</strong>, for example.</td>
</tr>
<tr>
<td>APN &amp; Dial No.</td>
<td>APN and the <strong>Dial No.</strong> are important PPPoE parameters. The APN (Access Point Name) and the Dial No. are automatically received by the NVR after connecting to a 3G module.</td>
</tr>
<tr>
<td>Dial/SMS Activate</td>
<td>Enable/disable <strong>Dial/SMS Activate</strong>. When enabled, if the user sends an &quot;ON&quot; message by phone to the NVR, then the NVR dials and connects with CDMA/GPRS. If the user sends an &quot;OFF&quot; message by phone to the NVR, then the NVR breaks the link with CDMA/GPRS.</td>
</tr>
<tr>
<td>AUTH</td>
<td>Authorization. Choose from <strong>PAP</strong>, <strong>CHAP</strong>, or <strong>NO_AUTH</strong>.</td>
</tr>
<tr>
<td>Username / Password</td>
<td>Enter a username and password for logging onto the 3G network.</td>
</tr>
<tr>
<td>Pulse Interval</td>
<td>Configure a time for ending the 3G connection after you close the extra stream monitor. For example, if you select <strong>60</strong> here, the NVR ends the 3G connection 60 seconds after you close the extra stream monitor.</td>
</tr>
</tbody>
</table>
Table 3-7  CDMA/GPRS Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note</td>
<td>If the Pulse Interval is 0, then the system does not end the 3G connection after you close the extra stream monitor.</td>
</tr>
<tr>
<td>Note</td>
<td>The Pulse Interval here is for the extra stream only. This field is inactive if you are using a main stream monitor.</td>
</tr>
<tr>
<td>IP Address</td>
<td>Non-configurable. After the NVR connects to the network through CDMA/GPRS, it receives an IP address, which displays here.</td>
</tr>
<tr>
<td>Wireless Signal</td>
<td>When the NVR connects to 3G through GPRS/CDMA, by clicking SEARCH, you can see the signal strength.</td>
</tr>
</tbody>
</table>

Configuring the Mobile Settings

Click Mobile Setup under 3G to open the Mobile Setup configuration interface.

Figure 3-11  Mobile Setup Configuration Interface

Activate/deactivate 3G connected phones or mobile phones, or the phone you configured to get alarm messages.

Configuring PPPoE

1. Click PPPoE under NETWORK to open the PPPoE configuration interface.
2. Enter the **PPPoE User name** and **Password**, which you receive from your Internet Service Provider (ISP).

3. Enable the **PPPoE** function.

4. Click **Save** to save the changes.

5. **Reboot** the device to activate these changes.

After rebooting, the device should connect to the Internet through the PPPoE connection. The IP address is found in the WAN from the IP address column.

---

**Note**
You need to use the previous IP address in the LAN to log into the device. Go to the IP address field, which is found in the device's current device information. You can access the NVR through this new address.

---

### Configuring DDNS

Use DDNS to connect the various servers so that you can access the system through the server.

1. Go to the corresponding service website to apply for a domain name.

2. Access the system through that domain name.

---

**Note**
This works even if your IP address has changed.

---

3. Select **DDNS** from the drop-down list.

**Table 3-8** DDNS Configuration Options

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DDNS Type</strong></td>
<td>Select the DDNS protocol from the drop-down list, then enable the DDNS function.</td>
</tr>
<tr>
<td><strong>Server IP</strong></td>
<td>The DDNS server IP address.</td>
</tr>
</tbody>
</table>
The Honeywell DDNS function works with a special DDNS server and special Professional Surveillance Software (PSS).

Click **DDNS** under **NETWORK** to open the **DDNS** configuration interface.

**Honeywell DDNS**

Before you can use Honeywell DDNS, you need to enable this service and configure the proper server address, port value, and domain name.

**Operation**

Before you can use Honeywell DDNS, you need to enable this service and configure the proper server address, port value, and domain name.

**Table 3-8 DDNS Configuration Options**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain Mode</td>
<td>The DDNS server port.</td>
</tr>
<tr>
<td>Domain Name</td>
<td>Your self-defined domain name.</td>
</tr>
<tr>
<td>Email Address</td>
<td>Server email address.</td>
</tr>
</tbody>
</table>

**Table 3-9 DDNS Configurations**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDNS Type</td>
<td>You can select the DDNS protocol from the drop-down list, and then enable the DDNS function. Select the Honeywell DDNS server (which is free) to enable the DDNS function.</td>
</tr>
<tr>
<td>Server IP</td>
<td>This is the DDNS server IP address. Under Honeywell DDNS, the default server address is <a href="http://www.hennvr-ddns.com">www.hennvr-ddns.com</a>.</td>
</tr>
<tr>
<td>Domain Mode</td>
<td>Select <strong>Default Domain</strong> or <strong>Custom Domain Name</strong>. The default is <strong>Default Domain</strong>. If you select <strong>Custom Domain Name</strong>, then you must enter a domain name.</td>
</tr>
<tr>
<td>Domain Name</td>
<td>The default domain name is [MAC address.hennvr-ddns.com](<a href="http://MAC">http://MAC</a> address.hennvr-ddns.com). You can define the prefix.</td>
</tr>
</tbody>
</table>
Table 3-9  DDNS Configurations

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test</td>
<td>Click the Test button to test the DDNS configuration/network connection.</td>
</tr>
<tr>
<td>Email Address</td>
<td>The Honeywell applied-for DDNS has an expiration date. When that expiration</td>
</tr>
<tr>
<td></td>
<td>date is reached, the system sends an email prompt to this email address.</td>
</tr>
</tbody>
</table>

Note  Do not register frequently. You need to wait at least 60 seconds between registration requests. Too many registration requests might leave your server vulnerable to attacks.

Note  The system DDNS server might take back a domain name that is idle for one year. If you configure your email address in the DDNS configuration, you will get a notification email before the domain name is taken back.

Quick DDNS and Client-end Introduction

Background Introduction

If you use ADSL to log into the network, then the device IP is not fixed. The DDNS function allows you to access the NVR via the registered domain name. Additional to the general DDNS, the Quick DDNS works with the manufacturer’s device so that it can add the extension function.

Function Introduction

The quick DDNS client has the same function as other DDNS client ends. It bonds the domain name and the IP address. Currently, the DDNS server only works with our own devices. You must regularly refresh the bonding relationship between the domain and the IP. There is no username, password, or ID registration on the server. However, each device has a default domain name (generated by the MAC address). You can also use a customized valid domain name which has not been registered.

Quick DDNS Operation

Before you use Quick DDNS, you must enable this service, and configure the correct server address, port value, and domain name.

Server address:  www.quickddns.com
Port number:  80
Domain name: There are two modes: Default domain name and customized domain name. Except for the default domain name registration, you can also use a customized domain name. After you have successfully registered a domain name, you can log in using it instead of the device IP.

User name: Optional. Enter your email address.

IMPORTANT! Do not register frequently. You must wait at least 60 seconds between attempts at logging in. Too many attempts might cause a server crash.

The system might take back a domain name if it is idle for one year. If your email is set up correctly, you will get an email notification before the domain name is canceled.

Configuring the IP Filter

1. Click IP Filter under NETWORK to open the IP Filter configuration interface.

   ![IP Filter Configuration Interface](image)

2. Click to enable Trusted Sites, and only the listed IP addresses can access the current NVR.

   OR

   Click to enable Blocked Sites, and the listed IP addresses can not access the current NVR.

Adding Trusted or Blocked Sites

1. Click Add to open the Add configuration interface.
2. Select IP Address or IP Section from the drop-down menu.
3. Select IPv4 or IPv6 from the drop-down menu.
4. Enter the IP address in the IP address field.
5. Click Save.
Configuring Email

Click **Email** under **NETWORK** to open the **Email** configuration interface.

![Email Configuration Interface](image)

Figure 3-15   Email Configuration Interface.

Table 3-10  Email Configurations

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Enable</strong></td>
<td>Click to enable the email function.</td>
</tr>
<tr>
<td><strong>SMTP server</strong></td>
<td>Enter the email SMTP server IP.</td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td>Enter the corresponding port. Default is 25.</td>
</tr>
<tr>
<td><strong>Anonymous</strong></td>
<td>Only available if the server supports the anonymity function. This function allows you to automatically log in anonymously, so you do not need to enter your user name, password, or sender’s information.</td>
</tr>
<tr>
<td><strong>User Name</strong></td>
<td>Enter the user name for logging in to the sender’s email box.</td>
</tr>
<tr>
<td><strong>Password</strong></td>
<td>Enter the login password here.</td>
</tr>
<tr>
<td><strong>Sender</strong></td>
<td>Enter the sender’s email address.</td>
</tr>
<tr>
<td><strong>Encrypt Type</strong></td>
<td>Select from NONE, or SSL.</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Enter an email subject. You can use up to 32 letters or numbers.</td>
</tr>
<tr>
<td><strong>Attachment</strong></td>
<td>Click to enable so that a snapshot can be attached to the email.</td>
</tr>
<tr>
<td><strong>Receiver</strong></td>
<td>Enter the receiver’s email address. You can enter up to 3 email boxes. You can use SSL or TSL email boxes.</td>
</tr>
</tbody>
</table>
Configuring FTP

FTP allows you to configure settings for remote storage. Before you can enable FTP, you must download or buy an FTP service tool. Refer to the Network Settings chapter of your User Guide for more information.

Click FTP under NETWORK to open the FTP configuration interface.

**Figure 3-16  FTP Configuration Interface**
Click **Test** to test the FTP connection. A popup window shows the status of the connection.

## Configuring UPnP

UPnP allows you to establish the mapping relationship between the LAN and the public network. Here you can also add, modify, or remove a UPnP item.

### Preparing for UPnP

1. In the Windows OS, click **Start ➤ Control Panel ➤ Add or remove programs**.
2. Click **Add/Remove Windows Components**, and then select **Network Services** from the Windows Component Wizard.
3. Click **Details**, then check **Internet Gateway Device Discovery and Control client** and **UPnP User Interface**. Then click **OK** to begin the installation.
4. Enable **UPnP** from the internet. If your UPnP is enabled in the Windows OS, then the NVR can automatically detect it through the **My Network Places**.

### Configuring UPnP

1. Click **UPnP** in the **NETWORK** configuration interface to open the **UPnP** configuration interface.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server IP</strong></td>
<td>Enter the IP address for the server.</td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td>Enter the Port number for the server.</td>
</tr>
<tr>
<td><strong>Username</strong></td>
<td>Enter the user name for logging into the server.</td>
</tr>
<tr>
<td><strong>Password</strong></td>
<td>Enter the password for logging into the server.</td>
</tr>
<tr>
<td><strong>Anonymous</strong></td>
<td>Click to enable/disable anonymously logging into the server.</td>
</tr>
<tr>
<td><strong>Remote Directory</strong></td>
<td>When the remote directory is null, the NVR automatically creates folders according to the IP, time, and channel.</td>
</tr>
<tr>
<td><strong>File Length</strong></td>
<td>Here you determine the size of the upload file. If the setup file size is larger than the actual file, then the system uploads the entire file. If the setup file size is smaller than the actual file, then the system uploads only the set file size. If you enter 0 here, then the system uploads all corresponding files.</td>
</tr>
<tr>
<td><strong>Image Upload Interval</strong></td>
<td>This is the interval that the CVR waits through before uploading an image to the FTP site. Select from 0 to 3600 seconds. 0 means that there is no interval.</td>
</tr>
<tr>
<td><strong>Channel</strong></td>
<td>Select a channel.</td>
</tr>
<tr>
<td><strong>Weekday</strong></td>
<td>Select a weekday.</td>
</tr>
<tr>
<td><strong>Time Periods</strong></td>
<td>You can configure up to two time periods per channel.</td>
</tr>
<tr>
<td><strong>Recording Type</strong></td>
<td>Select from <strong>Alarm</strong>, <strong>Motion</strong>, or <strong>Regular</strong>.</td>
</tr>
</tbody>
</table>
2. Configure the following settings:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable</td>
<td>Click to enable or disable UPnP.</td>
</tr>
<tr>
<td>LAN IP</td>
<td>Enter the NVR’s IP address from the TCP/IP page.</td>
</tr>
<tr>
<td>WAN IP</td>
<td>Enter the router’s IP address.</td>
</tr>
</tbody>
</table>

3. (Optional) **Add, edit, or delete** a mapping relationship from the **Port Mapping List**:

   - **Add a mapping relationship**: Click **Add** and then, in the **Port Info** dialog box, select the **Protocol** (TCP or UDP), enter the **Internal Port** and **External Port** details, and then click **OK**. To ensure data transmission, the internal and external ports should be the same. Avoid using ports 1 to 255 or 256 to 1023.

   - **Edit a mapping relationship**: Click the mapping relationship that you want to edit, and then, in the **Port Info** dialog box, edit the **Service Name**, **Protocol**, **Internal Port**, and/or **External Port** details, and then click **OK**.

   - **Delete a mapping relationship**: Click the mapping relationship that you want to delete, and then click **Delete**.

4. Click **Apply** to save your settings.

5. Click **OK** to exit the Setting menu.

**Configuring SNMP**

SNMP allows the communication between the network management work station software and the proxy of the managed device. It is reserved for a third party developer.

Click **SNMP** under **NETWORK** to open the **SNMP** configuration interface.
Table 3-12  SNMP Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNMP Port</td>
<td>The listening port of the proxy program of the NVR. It is a UDP port, not a TCP port. This value ranges from 1 to 65535. The default is 161.</td>
</tr>
<tr>
<td>Read Community</td>
<td>This is a string, and it is a command between the managing processes and the proxy process. <strong>Read Community</strong> defines the authentication, the access control, and the management relationship between one proxy and one managers’ group. Ensure that the device and the proxy are the same. The <strong>Read Community</strong> reads all the objects the SNMP supports in the specified name. The default is <strong>Public</strong>.</td>
</tr>
<tr>
<td>Write Community</td>
<td>This is a string, and it is a command between the managing processes and the proxy process. It defines the authentication, the access control, and the management relationship between one proxy and one manager’s group. Ensure that the device and the proxy are the same. The Write Community reads, writes, and/or accesses all of the objects the SNMP supports in the specified name. The default is <strong>Write</strong>.</td>
</tr>
<tr>
<td>Trap Address</td>
<td>The <strong>Trap</strong> information destination address from the device’s proxy program.</td>
</tr>
<tr>
<td>Trap Port</td>
<td>The <strong>Trap</strong> information destination port from the device’s proxy program. The Trap port allows the gateway device and the client-end PC in the LAN to exchange information.</td>
</tr>
<tr>
<td>SNMP Version</td>
<td>If you check <strong>V1</strong>, then the system processes only the V1 information. If you check <strong>V2</strong>, then the system processes only the V2 information.</td>
</tr>
</tbody>
</table>

**Figure 3-18  SNMP Configuration Interface**
Multicast

Multicast is a transmission mode for data packets. When there are multiple hosts to receive the same data packets, multicast is the best option for reducing the bandwidth and the CPU load. The source host can send out just one data for transit. This function also depends on the relationship of the group member and the router group.

1. Click Multicast under NETWORK to open the Multicast configuration interface.

   Figure 3-19 Multicast Configuration Interface

   ![Multicast Configuration Interface](image)

   - Select Enable to enable multicast.
   - Enter a multicast IP address in the IP Address box. The address must be valid for multicasting and should be in the range 224.0.0.0 to 239.255.255.255 for IPv4 or have the prefix ff00::/8. An address in the range 239.252.0.0 to 239.255.255.255 is recommended.
   - Enter a multicast port number in the Port box, or use the default setting (36666).
   - Click Apply to save your settings.
   - Click OK to exit the Setting menu.

Auto-Registration

Auto Register allows the device to automatically register to the proxy you have specified. This allows you to use the client-end to access the NVR through the proxy. The proxy acts as a switch. In network service, the device supports IPv4 server addresses or domains.

1. Click Auto Register under NETWORK to open the Auto Register configuration interface.
2. Click to enable Auto Registration.
3. Enter a Proxy Server IP, Port, and Sub device ID.
4. Click to enable Auto Registration.
5. Then click Save.

**Alarm Centre**

You can connect your alarm platform to the NVR’s Alarm Center to develop alarm functions. When a local alarm occurs, the NVR system can upload alarm signals to the Alarm Centre.

Before using the Alarm Centre, you must configure the server IP, Port, and Protocol Type. When an alarm occurs, the NVR system can send data, as defined by the protocol, to the client.

1. Click Alarm Center under NETWORK to open the Alarm Center configuration interface.
HTTPS

With these settings, you can ensure that the PC successfully logs in through HTTPS to guarantee communication data security. This reliable and stable technology can secure user information and device safety.

**Note** If you have changed the device’s IP, then you’ll need to implement the server certificate again.

**Note** If this is your first time to use HTTPS on your PC, then you’ll need to download the root certificate.

HTTPS Configuration Overview

1. Click HTTPS under NETWORK to open the HTTPS configuration interface.

**Figure 3-22** HTTPS Configuration Interface

2. Create a Server Certificate if the is the first time you are using this function. See Creating a Server Certificate on page 57.

OR

Download an already established root certificate. See Downloading a Root Certificate on page 58.

3. View and set the HTTPS port. See Viewing and Setting the HTTPS Port on page 61.

4. Open the Login interface through the browser. Login Configurations on page 61.

Creating a Server Certificate

Follow these steps if this is the first time you are using this function.

1. Click [Create Server Certificate] to open the Create Server Certificate window.
2. Enter a **Country** name, a **State**, a **City**, **Organization**, etc, then click **Create**. A message appears to confirm that you have succeeded in creating a new server certificate.

![Figure 3-24 Server Certificate Confirmation Message](image)

**Figure 3-24 Server Certificate Confirmation Message**

**Downloading a Root Certificate**

1. Click **Download Root Certificate** to open a **File Download - Security Warning** window.

2. Click **Open** to open the **Certificate** window.
3. Click **Install Certificate** to open the **Certificate Import Wizard**.

4. Click **Next** to open the Certificate Store window.
5. Select a location for the certificate.

6. Click **Next** to complete the process. A message appears to let you know the process is complete.

7. Click **Finish**, and a security warning pops up.
8. Click Yes. When the installation is complete, a confirmation message appears.

Viewing and Setting the HTTPS Port

Click Connection under Network to open the Connection interface.

Login Configurations

1. Open the browser, then enter https://xx.xx.xx.xx:port, where xx.xx.xx.xx is your device’s IP or domain name.

   The port is your HTTPS port. If you are using 443 (the default HTTPS value), then you do not need to add port information here.

2. Enter https://xx.xx.xx.xx to access.

   If you have the correct settings, then you should see the login interface.
Configuring Switch Settings

You can change the IP Address, Subnet Mask, and Default Gateway for setting the PoE switch settings.

1. Click **Switch** under **Network** to open the **Switch** interface.

![Switch Configuration Interface](image)

2. Configure the following settings:

   **Table 3-13 Switch Configurations**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address</td>
<td>Enter a new IP address.</td>
</tr>
<tr>
<td>Subnet Mask</td>
<td>Enter a new subnet mask.</td>
</tr>
<tr>
<td>Default Gateway</td>
<td>Enter a new default gateway.</td>
</tr>
</tbody>
</table>

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

Configuring Event Settings

Configuring Video Detection

Motion Detection Configurations

You can configure the system to generate a motion detection alarm when the minimum amount of motion (as defined by you) is detected in the video.

Click **Detect** under **EVENT** to open the **Motion Detect** configuration interface.
Figure 3-34  Motion Detect Configuration Interface
Table 3-14  WEB - Motion Detection Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable</td>
<td>Click to enable motion detection. Select a channel from the drop-down list.</td>
</tr>
<tr>
<td>Period</td>
<td>Define a period during which motion detection is active.</td>
</tr>
<tr>
<td></td>
<td>1. Click Set. The Set configuration interface appears.</td>
</tr>
<tr>
<td></td>
<td>2. Select a day of the week from the drop-down menu. Select from a day of the week, Work Day, or Free Day.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> If you select Work Day or Free Day, a Set button appears so you can configure which days are Work Days and which days are Free Days. Click Set, select the Work Days and the Free Days, then click OK.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> You can configure up to 6 periods within one day.</td>
</tr>
<tr>
<td></td>
<td>3. Configure a time range for when the event detection area is active, then click the check box to select that time range.</td>
</tr>
<tr>
<td></td>
<td>4. Click Save.</td>
</tr>
</tbody>
</table>
### Table 3-14  WEB - Motion Detection Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
</table>
| Region        | 1. Select a motion detection type.  
2. Click Set. The **Motion Detection Set** configuration interface appears.  
3. Select the event detection area by left-clicking and dragging the mouse.  
There are 396 (PAL) or 330 (NTSC) small zones.  
**Green**: Indicates the current cursor position.  
**Grey**: Indicates the event detection zone.  
**Black**: Indicates a disarmed zone.  
4. Select a **Sensitivity**, from 1 to 100. The higher the number, the higher the sensitivity.  
5. Click **Save** to save the configurations. Click **Esc** to exit the setup without saving the changes.  
| Record Channel| The system automatically starts recording selected channels when a motion detection alarm occurs.  
**Note** You need to set the motion detection recording period.  
Go to **Storage ➤ Schedule** to configure the current channel for scheduled recording. Refer to the **User Guide** for more information about **Configuring Recording Schedule Storage Settings**.  
| Delay         | The system can delay recording for a specified amount of time after an alarm has ended. Select from 10s to 300s.  
| Alarm Out     | Select the device output port, 1 or 2. Select the corresponding port(s) so the system can activate the corresponding alarm devices when an alarm occurs.  
| Latch         | The system can delay the alarm output for a specified time after an alarm ends. The value ranges from 1s to 300s.  |
Video Loss Detection Configurations

You can configure the system to generate a video loss alarm when the minimum amount of video loss (as defined by you) is detected in the video.
**Note** Video loss does not support anti-dither, sensitivity, or region setup.

Click **Video Loss** under **DETECT** to open the **Video Loss** configuration interface.

**Figure 3-35 Video Loss Configuration Interface**

The configuration for **Video Loss Detection** is very similar to the configuration for **Motion Detection**. Please see **Motion Detection Configurations on page 62** for more information.

**Camera Masking Detection Configurations**

You can configure the system to generate a camera tampering alarm when the minimum amount of tampering (as defined by you) is detected in the video.

Click **Camera Masking** under **DETECT** to open the **Camera Masking** configuration interface.
The configuration for **Camera Tampering Detection** is very similar to the configuration for **Motion Detection**. Please see *Motion Detection Configurations on page 62* for more information.

### Configuring Alarms

Before alarm operation, you should check that you have properly connected all alarm devices, such as buzzers and flashing lights.

### Configuring Local Alarms

Click **ALARM** under **EVENT** to open the **Local Alarm** configuration interface.

*Figure 3-37  WEB - Alarm Configuration Interface*
### Configuring Net Alarms

**Table 3-15 WEB - Alarm Configurations**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable</td>
<td>Click to enable alarms. Select a channel from the drop-down list.</td>
</tr>
<tr>
<td>Period</td>
<td>Define a period during which the alarm is active.</td>
</tr>
<tr>
<td></td>
<td>1. Click <strong>Set</strong>. The <strong>Set</strong> configuration interface appears.</td>
</tr>
<tr>
<td></td>
<td>2. Select a day of the week from the drop-down menu. Select from a day of the <strong>week</strong>, <strong>Work Day</strong>, or <strong>Free Day</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> If you select <strong>Work Day</strong> or <strong>Free Day</strong>, a <strong>Set</strong> button appears so you can configure which days are <strong>Work Days</strong> and which days are <strong>Free Days</strong>. Click <strong>Set</strong>, select the Work Days and the Free Days, then click <strong>OK</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> You can configure up to 6 periods within one day.</td>
</tr>
<tr>
<td></td>
<td>3. Configure a time range for when the event detection area is active, then click the check box to select that time range.</td>
</tr>
<tr>
<td></td>
<td>4. Click <strong>Save</strong>.</td>
</tr>
<tr>
<td>Type</td>
<td>Select either <strong>NO</strong> or <strong>NC</strong>.</td>
</tr>
<tr>
<td>Record Channel</td>
<td>The system automatically starts recording selected channels when a motion detection alarm occurs.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> You need to set the alarm recording period.</td>
</tr>
<tr>
<td></td>
<td>Go to <strong>Storage ▶ Schedule</strong> to configure the current channel for scheduled recording. See <em>Configuring Local Storage on page 76</em>.</td>
</tr>
<tr>
<td>Delay</td>
<td>The system can delay recording for a specified amount of time after an alarm has ended. Select from <strong>10s</strong> to <strong>300s</strong>.</td>
</tr>
<tr>
<td>Alarm Out</td>
<td>Select the device output port, 1 or 2. Select the corresponding port(s) so the system can activate the corresponding alarm devices when an alarm occurs.</td>
</tr>
<tr>
<td>Latch</td>
<td>The system can delay the alarm output for a specified time after an alarm ends. The value ranges from <strong>1s</strong> to <strong>300s</strong>.</td>
</tr>
</tbody>
</table>
Network Alarm are the alarm signals from the TCP/IP. You cannot select the sensor type or anti-dither functions.

Click Net Alarm in the ALARM configuration interface.
Figure 3-38  WEB - Net Alarm Configuration Interface

Configuring Alarm Outputs
1. Click Alarm Output under SETTING to open the Alarm Output configuration interface.

Figure 3-39  WEB - Alarm Output Configuration Interface

2. Click to enable the alarm output for each alarm. Select from Schedule, Manual, or Stop, and Status.
3. Click Save to save these settings and return to the previous menu.

Configuring for Abnormalities

Click Abnormality under EVENT to open the Abnormality - No Disk configuration interface.

Figure 3-40  WEB - Abnormality Configuration Interface
There are six types of abnormalities:

- No Disk
- Disk Error
- No Space
- Net Disconnection
- IP Conflict
- MAC Conflict

You can configure how the system responds to each kind of abnormality. The configuration is similar for each type.

**Figure 3-41 Configuring for Abnormalities**
Configuring Storage

Configuring Storage Schedules

You can add or remove schedules for recording.

There are four recording modes: General (auto), Motion Detect, Alarm, and MD&Alarm. You can configure up to six periods per day.

1. Click Schedule under STORAGE to open the Schedule configuration interface.

<table>
<thead>
<tr>
<th>Table 3-16 Configuring for Abnormalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>Event Type</td>
</tr>
<tr>
<td>Less Than:</td>
</tr>
<tr>
<td>Enable</td>
</tr>
<tr>
<td>Alarm Out</td>
</tr>
<tr>
<td>Latch</td>
</tr>
<tr>
<td>Show Message</td>
</tr>
<tr>
<td>Send Email</td>
</tr>
<tr>
<td>Buzzer</td>
</tr>
</tbody>
</table>
The schedules are color-coded by type:

- **Green**: General recording/snapshot.
- **Yellow**: Motion detection recording/snapshot.
- **Red**: Alarm recording/snapshot.
- **Blue**: MD&Alarm recording/snapshot.

### Table 3-17 Scheduled Storage Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel</td>
<td>Select a channel from the drop-down list</td>
</tr>
<tr>
<td>Pre-record</td>
<td>Enter a pre-recording time here. Select from 0 to 30.</td>
</tr>
<tr>
<td>Redundancy</td>
<td>You can configure the NVR to backup recorded files onto two different HDDs. Click to enable.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> Before you can enable this function, you must configure at least one HDD as redundant. Go to <strong>Main Menu &gt; Setting &gt; Storage &gt; HDD Management</strong>. This function is not available if there is only one HDD.</td>
</tr>
<tr>
<td>Snapshot</td>
<td>Click to enable <strong>Snapshot</strong>.</td>
</tr>
<tr>
<td>Holiday</td>
<td>Click to enable <strong>Holiday</strong>.</td>
</tr>
</tbody>
</table>
Table 3-17  Scheduled Storage Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup (Sunday to Saturday)</td>
<td>Click Setup, then set a recording period. See step 2 below. You can configure up to six periods in one day. If you do not click a day at the bottom of the Setup interface, then the changes you make are for today.</td>
</tr>
<tr>
<td>Setup (Holiday)</td>
<td>Click Setup, then set a recording period. See step 2 below. You can configure up to six periods in one day. If you click Holiday at the bottom of the Setup interface, then the currently selected channel will record according to these holiday settings.</td>
</tr>
<tr>
<td>Copy</td>
<td>Allows you to copy a channel's setup to one or more other channels. Click Copy in the Configuration interface to open the Copy interface. Select channels to which to copy the current configurations, then click Save.</td>
</tr>
</tbody>
</table>

2. Click Setup. The Setup configuration interface opens.

Figure 3-43  Set Configuration Interface
3. Configure the schedule, then click **Save**.

   **Table 3-18  Schedule Configurations**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel</td>
<td>Select a channel from the drop-down list.</td>
</tr>
<tr>
<td>Regular</td>
<td>Check to enable the <strong>Regular</strong> schedule mode.</td>
</tr>
<tr>
<td>Motion</td>
<td>Check to enable the <strong>Motion Detection</strong> schedule mode.</td>
</tr>
<tr>
<td>Alarm</td>
<td>Check to enable the <strong>Alarm</strong> mode.</td>
</tr>
<tr>
<td>MD&amp;Alarm</td>
<td>Check to enable the <strong>MD&amp;Alarm</strong> mode.</td>
</tr>
</tbody>
</table>

4. Click **Save** to save the settings, and then click **Save** to save the **Schedule** configuration.

**Configuring Local Storage**

Click **Storage** under **STORAGE** to open the **Local Storage** configuration interface.

The **Local Storage** interface shows HDD information. You can also configure read-only, read-write, redundancy (if there is more than one HDD), and format settings.

**Figure 3-44  Local Storage Interface**

**Configuring Manual Recording Storage Settings**

Click **Record** under **Storage** to open the **Record** configuration interface.
Configuring General Settings

General Settings

Click General under SETTING to open the General settings configuration interface.

Table 3-19  Recording Storage Interface

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel</td>
<td>See the channel numbers, including the maximum number of channels.</td>
</tr>
<tr>
<td>Auto</td>
<td>Select Schedule, and the system enables the automatic recording function as you set it in the Recording Schedule Setup: General, Motion Detection, or Alarm. See Configuring Storage Schedules on page 73.</td>
</tr>
<tr>
<td>Manual</td>
<td>This is the highest priority. Enable the corresponding channel to record not matter what period was applied in the Recording Setup.</td>
</tr>
<tr>
<td>Off</td>
<td>Stop recording the current channel no matter what recording setup is applied to that channel.</td>
</tr>
<tr>
<td>Start All/Stop All</td>
<td>Click the All button, and then enable or disable recording on all channels.</td>
</tr>
</tbody>
</table>
Figure 3-46  General Settings Interface

Table 3-20  General Settings Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Name</td>
<td>Enter a device name.</td>
</tr>
<tr>
<td>Device No.</td>
<td>Enter a channel number.</td>
</tr>
<tr>
<td>Language</td>
<td>Select a GUI language from the drop-down list.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> You need to reboot the device/NVR to activate this change.</td>
</tr>
<tr>
<td>Video Standard</td>
<td>Select the video standard, either NTSC or PAL.</td>
</tr>
<tr>
<td>HDD Full</td>
<td>Select what happens when the NVR’s storage is full. Select either Stop Recording or OverWrite.</td>
</tr>
<tr>
<td></td>
<td><strong>Stop Recording</strong>: If the HDD is full, the NVR stops recording.</td>
</tr>
<tr>
<td></td>
<td><strong>OverWrite</strong>: If the currently working HDD is full and the next HDD is also full, the NVR overwrites the previous files.</td>
</tr>
<tr>
<td>Pack Duration</td>
<td>Select the recording duration. Select from 1 to 60 minutes. The default is 60 minutes.</td>
</tr>
</tbody>
</table>

Date and Time Settings

Click the Date & Time tab in the GENERAL configuration interface to open the Date & Time configuration interface.
Figure 3-47  Date & Time Configuration Interface

Table 3-21  Date & Time Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Format</td>
<td>Select the date format from the drop-down list.</td>
</tr>
<tr>
<td>Time Format</td>
<td>Select from either 24 hour or 12 hour.</td>
</tr>
<tr>
<td>Date Separator</td>
<td>Select from a period (.), a hyphen (-), or a slash (/).</td>
</tr>
<tr>
<td>System Time</td>
<td>Set the NVR’s time. You have to Save to activate this setting.</td>
</tr>
<tr>
<td>Sync PC</td>
<td>Click to synchronize your NVR’s time with your PC’s time.</td>
</tr>
<tr>
<td>Time Zone</td>
<td>Select a Time Zone for the NVR.</td>
</tr>
<tr>
<td>DST</td>
<td>Click to enable Daylight Saving Time (DST). Click to select a type, either Date or Week. Then configure a date and time when DST begins and ends.</td>
</tr>
<tr>
<td>NTP</td>
<td>Click to enable the NTP server.</td>
</tr>
<tr>
<td>NTP Server</td>
<td>Enter the NTP time server address.</td>
</tr>
<tr>
<td>Port</td>
<td>Enter the NTP time server port.</td>
</tr>
<tr>
<td>Upgrade Period/Interval</td>
<td>Configure the synchronization period between the NVR and the NTP time server.</td>
</tr>
</tbody>
</table>

**Holiday Settings**

1. Click the Holiday Setup tab in the GENERAL settings configuration interface to open the Holiday Setup configuration interface.
2. Click Add New Holiday to add a holiday, enter the holiday details, then click Save.

Configuring Display Settings

Display/GUI Settings

Click Display under SETTING interface to open the Display/GUI settings configuration interface.

![Display Configuration Interface](image)

Table 3-22  GUI Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>Select from four options: 1920x1080, 1280x1024 (default), 1280x720, and 1024x768.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> You need to reboot the NVR to activate changes to the resolution.</td>
</tr>
<tr>
<td>Transparency</td>
<td>Configure the transparency of the GUI display. Select from 128 to 255.</td>
</tr>
<tr>
<td>Time Display/Channel Display</td>
<td>Click to enable these functions, which display the time and channel on the video monitor.</td>
</tr>
</tbody>
</table>
In the **Tour** interface, you can set the **Tour Interval**, **Split** mode, **Motion Detection Tour**, and **Alarm Tour** modes.

Click the **Tour** tab in the **DISPLAY** configuration interface under **SETTING** to open the **Tour** configuration interface.

### Table 3-22 GUI Configurations

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Enhance</td>
<td>Check to enable <strong>Image Enhance</strong>, to optimize the preview video.</td>
</tr>
<tr>
<td>Auto Logout</td>
<td>Enter the how long the NVR waits before automatically logging the user out.</td>
</tr>
<tr>
<td>Startup Wizard</td>
<td>Click to enable the <strong>Startup Wizard</strong> on restarting or starting up the NVR.</td>
</tr>
<tr>
<td>Navigation Bar</td>
<td>Click to enable/disable the navigation bar.</td>
</tr>
<tr>
<td>Original Scale</td>
<td>Click <strong>Set</strong> to select to show channels in their original aspect ratio. Unselected channels display in full screen.</td>
</tr>
</tbody>
</table>

**Tour Configurations**

In the **Tour** interface, you can set the **Tour Interval**, **Split** mode, **Motion Detection Tour**, and **Alarm Tour** modes.

Click the **Tour** tab in the **DISPLAY** configuration interface under **SETTING** to open the **Tour** configuration interface.

![Tour Configuration Interface](image)

### Table 3-23 Display Tour Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Tour</td>
<td>Check to enable this function.</td>
</tr>
<tr>
<td>Interval</td>
<td>Adjust the transparency. Select from <strong>5s</strong> to <strong>120s</strong>. The default is <strong>5s</strong>.</td>
</tr>
</tbody>
</table>
Table 3-23  Display Tour Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window Split</td>
<td>Set the window mode and channel group. Depending on your NVR, it can support up to a 1/4/8/9/16-window split.</td>
</tr>
<tr>
<td>Channel Group</td>
<td>Add channels to a channel group, and when the NVR starts a tour, the tour starts only on the selected channels for the group.</td>
</tr>
<tr>
<td>Motion Tour/Alarm Tour Type</td>
<td>Set the Motion Detection Tour and Alarm Detection Tour window modes. The NVR can support 1/8 window.</td>
</tr>
</tbody>
</table>

RS232 Configurations

1. Click RS232 under SETTING to open the RS232 configuration interface.

![Figure 3-51 WEB - RS232 Configuration Interface](image)

Table 3-24  RS232 Web Configurations

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td>Select the corresponding dome Protocol. The default is Console.</td>
</tr>
<tr>
<td>Baud Rate</td>
<td>Select the Baud Rate. The default is 115200.</td>
</tr>
<tr>
<td>Data Bit</td>
<td>Select from 5 to 8. The default is 8.</td>
</tr>
<tr>
<td>Stop Bit</td>
<td>Choose either 1 or 2. The default is 1.</td>
</tr>
<tr>
<td>Parity</td>
<td>Select from None, Odd, Even, Space, or Mark. The default is None.</td>
</tr>
</tbody>
</table>

2. Make your selections, then click Save.

Configuring PTZ Settings

Before configuring PTZ, please ensure the following:

- The PTZ and decoder are connected correctly, and that the decoder address setup is correct.
- That the correct decoder line is connected to the correct NVR line (A to A; B to B).
Click **PAN/TILT/ZOOM** under **SETTING** to open the **PAN/TILT/ZOOM** configuration interface.

**Figure 3-52  PAN/TILT/ZOOM Configuration Interface**

![PAN/TILT/ZOOM Configuration Interface](image)

**Table 3-25  PAN/TILT/ZOOM Configuration Interface**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel</td>
<td>Select a channel.</td>
</tr>
<tr>
<td>PTZ Type</td>
<td>Select Remote for the PTZ type. A remotely connected IP camera is connected through the network.</td>
</tr>
</tbody>
</table>

**Accounts**

**Some Basic User and Group Rules**

- You can use up to 6 characters for user names and group names. You cannot use a space at the beginning or end of a name. You can use characters, numbers, and an underline (_).
- You can add up to 64 users and 20 groups (these are also the default settings). The default setting includes two group levels: **user** and **admin**. Configure the Group privileges, and then assign users to their groups according to the privileges those users require.
- User management involves assigning privileges to groups, and users to groups. User names can not be the same as group names; user names and group names must be unique. Users can belong to only one group.

Click **Account** under **SETTING** to open the **Account** settings configuration interface.
User Name

Figure 3-53  User Name Account Configurations

There are two default users:

- admin
- a hidden user

The hidden default user is for internal use only, and can not be deleted. If users log in without selecting a login user, the hidden default user is automatically used. You can configure some rights for the default hidden user, such as monitor rights so that the user can view channels without logging in.

---

**Note**  
User rights can not exceed group rights.

---

**TIP!**  
General users should have fewer rights than administrators.

**Adding a User**

1. Click Add User. The Add User configuration interface opens.
2. Enter a **Username** and a **Password**. Re-enter the Password to confirm it.
3. Select a **Group**.
5. Click **Save** to save these new settings.

**Modifying a User**

1. Click 📋 under **Modify** to open the **Modify User** configuration interface.
2. Change the settings, then click **Save**.

**Modifying a Password**

1. Click **Modify Password** in the **Modify User** configuration interface.
2. Enter the old **Password**, then enter the new **Password** twice.
3. Click **OK** to save the new password.

---

**Note**  
Passwords can have up to 6 characters, numbers only. Users with admin rights can modify the password of other users.

---

**Groups**

Click the **Group** tab in the **Account** configuration interface to open the **Group** configuration interface.

**Figure 3-56  Group Configuration Interface**

---

**Adding a Group**

1. Click **Add Group** in the **Group Account** configuration interface.

**Figure 3-57  Add Group Configuration Interface**
2. Enter a **Group** name.
3. Select **System, Playback, and Real-time Monitor** privileges.
4. Click **Save** to save these new settings.

**Modifying a Group**

1. Click  under **Modify** to open the **Modify Group** configuration interface.

![Figure 3-58 Modify Group Configuration Interface](image)

2. Modify the **Group** privileges, then click **Save** to save the changes.

**Automatic Maintenance**

1. Click **Auto Maintain** under **SETTING** to open the **Auto Maintain** configuration interface.

![Figure 3-59 Auto Maintain Configuration Interface](image)
2. Select when the NVR automatically reboots, both day and time.
3. Select when the NVR automatically deletes old files.
4. Click **Save** to save the new settings.

---

**Note**  
Click **Manual Reboot** to manually reboot the NVR.

---

**Import/Export**

Click **Config Backup** under **SETTING** to open the **Import/Export** configuration interface.

**Figure 3-60 Import/Export Interface**

![Import/Export Interface](image)

**Table 3-26 Import/Export Operations**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Import</strong></td>
<td>Use to import local setup files to the NVR system.</td>
</tr>
<tr>
<td><strong>Export</strong></td>
<td>Use to export the corresponding WEB setup to your local PC.</td>
</tr>
</tbody>
</table>

---

**Default**

You can select to return **Channel**, **Network**, **Event**, **Storage**, and/or **System** settings to their defaults.

1. Click **Default** under **SETTING** to open the **Default** configuration interface.

**Figure 3-61 Default Settings Interface**

![Default Settings Interface](image)
2. Click to select, or select All, then click Default.

Upgrade

Click Upgrade under SETTING to open the Upgrade configuration interface.

Figure 3-62 Upgrade Interface

1. Click Browse, then click to select the upgrade file.

2. Click Upgrade to begin the update.

The file name will end with .bin.

---

Note  During the upgrade process, do not unplug the power cable, network cable, or shut down the device.

---

CAUTION  An improper upgrade program could result in a device malfunction.
Playback

This chapter includes descriptions of the following:

- Playing back recorded video
- Downloading recorded video

1. Click the **Playback** tab at the top of the **Main** window.
   
The **Playback** interface appears.
2. Select a recording type, recording date, window display mode, and channel name to select video for playback.

3. Click **File List**, and the system displays a list of recorded video clips that match the search criteria from step 2.

**Figure 4-2  List of Recorded Video Clips**

![List of Recorded Video Clips](image)
4. Select a file from this list for playback, then click **Play (▶)**. You can play back in full screen mode.

Use the playback control bar to control playback.

**Figure 4-3  Playing Back Video**

---

**Note**  For one-channel playback, the system can not play back and download at the same time.

---

**Downloading Video**

After generating a list of recorded video clips by clicking **File List**, select the files you want to download, then click **Download**.
The **Download** button becomes the **Stop** button, and it indicates the downloading progress (in a percentage).

Go to your default **Saved Path** file to view the downloaded files. See *Configuring the Save Path on page 39*.

**Loading More**

Click **More** in Fig 13-94, and the **Download by File/Download by Time** interfaces appear.
In this window, you can search for recordings or snapshots. Select the channel, recording type, and the recording time.
Alarms

This chapter describes how to remotely activate the alarms.

Activating Alarms

Click the Alarm tab at the top of the Main window. The Alarm configuration interface appears.

Note For information about configuring alarms, refer to the User Guide.
### Table 5-1 Alarm Configurations

<table>
<thead>
<tr>
<th>Configuration Type</th>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alarm Type</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motion Detect</td>
<td>Click to enable <strong>Motion Detection</strong>. The system will then trigger an alarm when motion is detected under the specified circumstances.</td>
<td></td>
</tr>
<tr>
<td>Video Masking</td>
<td>Click to enable <strong>Video Masking</strong>. The system triggers an alarm when camera masking occurs.</td>
<td></td>
</tr>
<tr>
<td>Video Loss</td>
<td>Click to enable <strong>Video Loss</strong>. The system then an alarm when video loss occurs.</td>
<td></td>
</tr>
<tr>
<td>IPC External Alarm</td>
<td>Click to enable the camera’s <strong>External Alarm</strong>, the On/Off signal from the network camera. It activates the NVR to locally activate.</td>
<td></td>
</tr>
<tr>
<td>External Alarm</td>
<td>An alarm that is connected to the NVR, such as an infrared detector.</td>
<td></td>
</tr>
<tr>
<td>Disk Error</td>
<td>Click to enable the <strong>Disk Error</strong> alarm. The system triggers an alarm when a disk error occurs.</td>
<td></td>
</tr>
<tr>
<td>Disk Full</td>
<td>Click to enable the <strong>Disk Full</strong> alarm. The system triggers an alarm when the disk is full.</td>
<td></td>
</tr>
<tr>
<td>No Signal</td>
<td>Click to enable the <strong>No Signal</strong> alarm. The system triggers an alarm when the network camera and the NVR are disconnected.</td>
<td></td>
</tr>
<tr>
<td><strong>Operation</strong></td>
<td>Prompt</td>
<td>Click to enable the <strong>Prompt</strong>. Then the system automatically pops up an alarm icon on the <strong>Alarm</strong> button on the <strong>Main</strong> interface when there is an alarm.</td>
</tr>
<tr>
<td><strong>Alarm Sound</strong></td>
<td>Play Alarm Sound</td>
<td>Click to enable the <strong>Alarm Sound</strong>. Then the system triggers an alarm sound when an alarm occurs. You can choose the sound.</td>
</tr>
<tr>
<td></td>
<td>Sound Path</td>
<td>Select the sound file.</td>
</tr>
</tbody>
</table>
You can use the webpage un-install tool `uninstall_web.bat` to uninstall the web control plugin.

**Note**  
Before uninstalling the Web control, close all web pages. If you do not, then you might experience an error.
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