Honeywell

Performance Series Full PoE Network Video Recorder

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Remote User Guide

Document 800-21261V3 – Rev A – 05/2016

Remote
User Guide

Revisions

Issue	Date	Revisions
A	08/2015	New document. (Based on 800-20017)
V1 Rev A	10/2015	Added a note in the Configurations section, table 3-2.
V2 Rev A	03/2016	Amended the list of NVR models.
V3 Rev A	05/2016	Removed any reference to Google Chrome.

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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:

Document title	Part number*
Performance Series IP Network Video Recorder User Guide	800-21090
Performance Series IP NVR Quick Connection Guide	800-21088
Performance Series IP NVR Quick Network Guide	800-21089

** 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.*

1

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 1-1 PC Requirements

Component	Minimum Requirement
Processor	Quad core
System memory (RAM)	2G or higher
Non-integrated video card	256M or higher

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.

Note Before you uninstall the web control, close all web pages. If you do not, then the uninstallation procedure might result in an error.

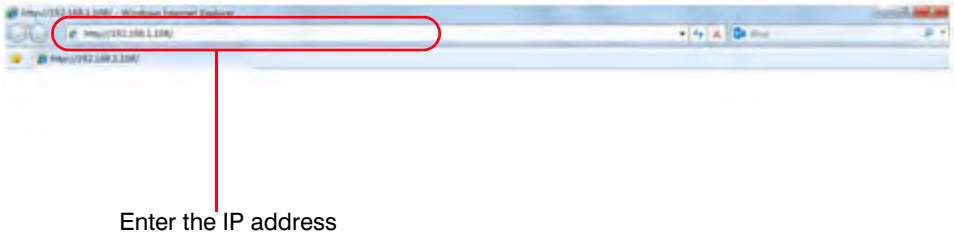
- The current NVR supports various browsers such as Apple Safari and Mozilla Firefox. The NVR supports multiple-channel monitoring (depending on your model) on an Apple PC.

Logging In

1. Open a Web browser window.

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

Figure 1-1 IE Window

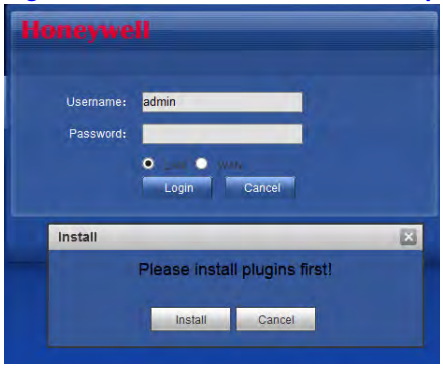


2. Enter the NVR IP address in the address field.

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.

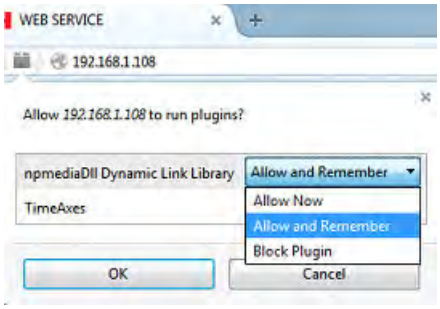
Figure 1-2 Controls Installation Popup Message



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

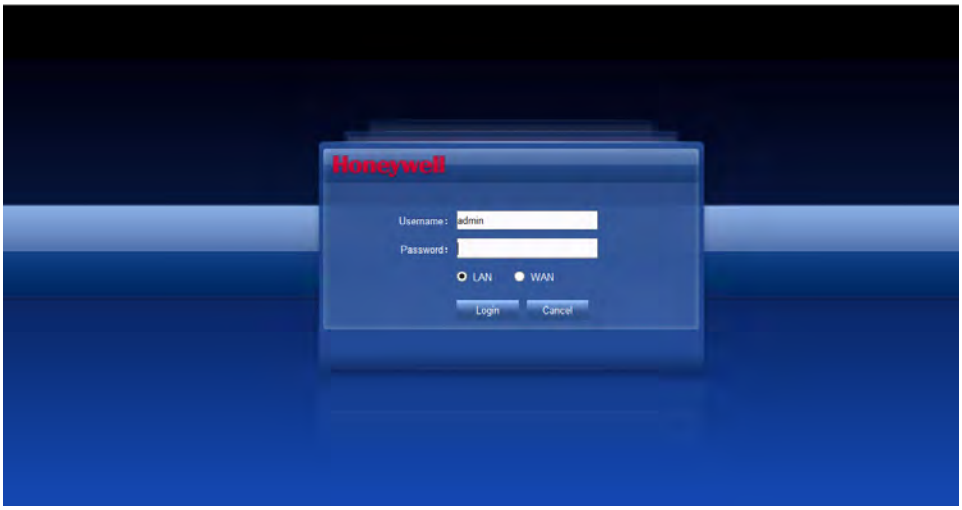
Note The relevant plug-ins might be blocked by your web browser security settings. See *Figure 1-3*.

Figure 1-3 Unblocking Security Plug-ins



When installation is successful, the **Web Service** login window appears.

Figure 1-4 Web Service Login Window



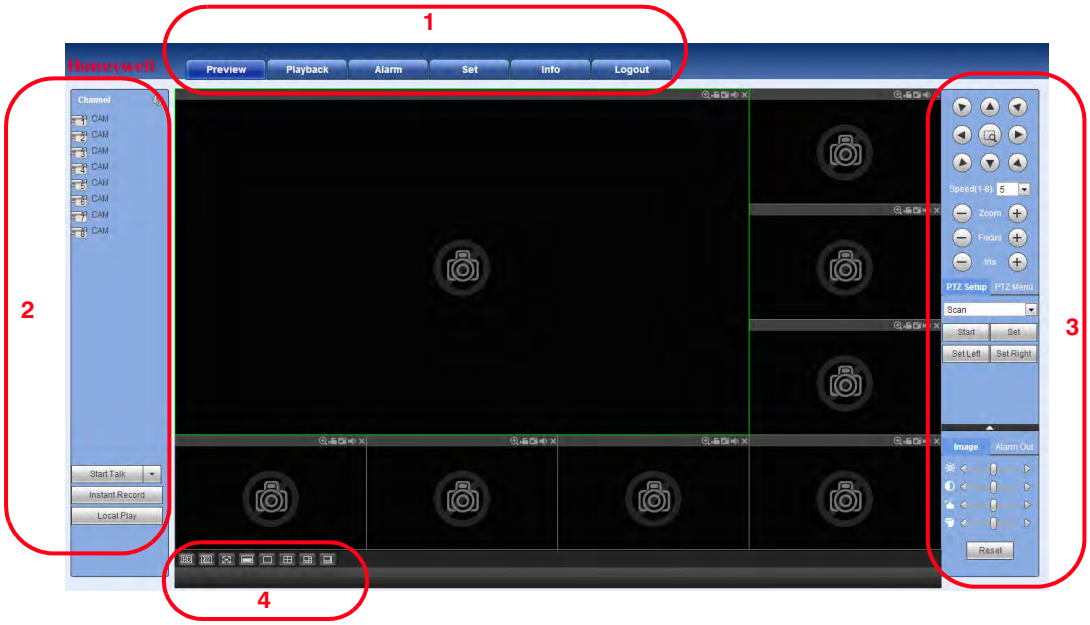
4. Enter your username (default: **admin**) and password (default: **admin**), then click **Login**.

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.

Figure 1-5 LAN Mode Main Window



Section 1: Function Buttons

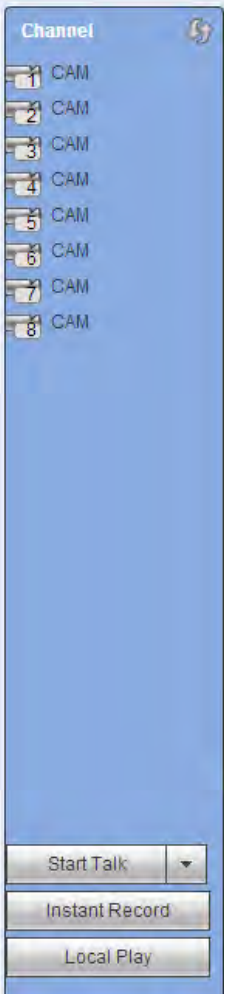
Figure 1-6 LAN Main Window Function Tabs

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

Figure 1-7 Monitor Channels Section and Function Buttons



Monitor Channels

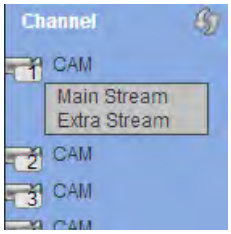
The **Monitor Channels** section displays monitor channels that are successfully connected to the NVR. Left-click to select a channel for viewing, or click **Start All**.

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



Start Talk Button

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

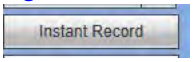
Note After you enable bi-directional communication, if the audio input port that goes from the device to the client end is using the first channel audio input port, then the system will not encode the audio data from that one channel. Refer to the *Setting Up Bi-Directional Communication Connection*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

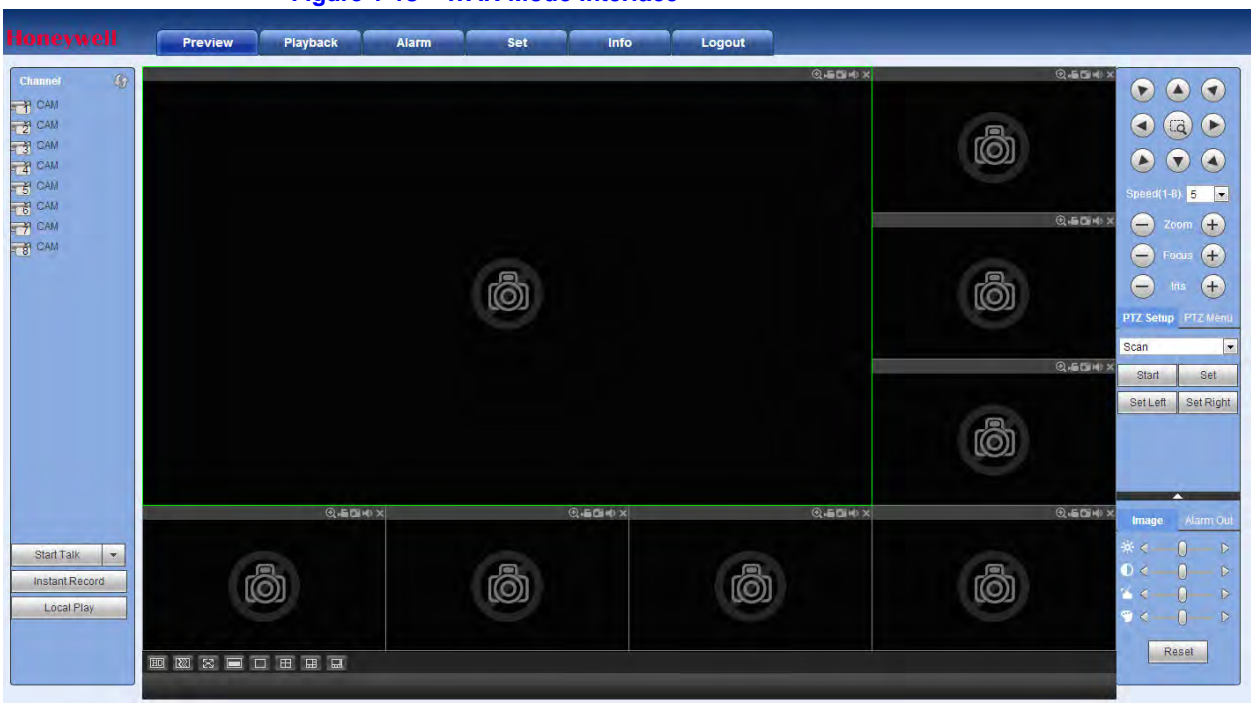
Table 1-2 Viewer Configuration Controls

Button	Name	Description
	**Video Quality**	Click to select the video quality. Select either **High** quality or **Low** quality.
	**Fluency**	Click to configure the fluency. Select from **Fluency Level 1**, **Fluency Level 2**, **Fluency Level 3**, **Middle level**, **Latency Level 1**, **Latency Level 2**, and **Latency Level 3**.
	**Full Screen**	Click to switch the viewer to show video full screen. Click **Esc** (on your PC) to quit full screen.
	**Vertical Synchronization**	Click to configure vertical synchronization.
	**Single-channel Window**	Click to switch to single channel viewing.
	**Four-channel Window**	Click to switch to switch to four channel viewing.

WAN Login

After you have successfully logged in, you will be in WAN mode. In WAN mode, you can select different channels and different modes at the bottom of the interface.

Figure 1-13 WAN Mode Interface



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.

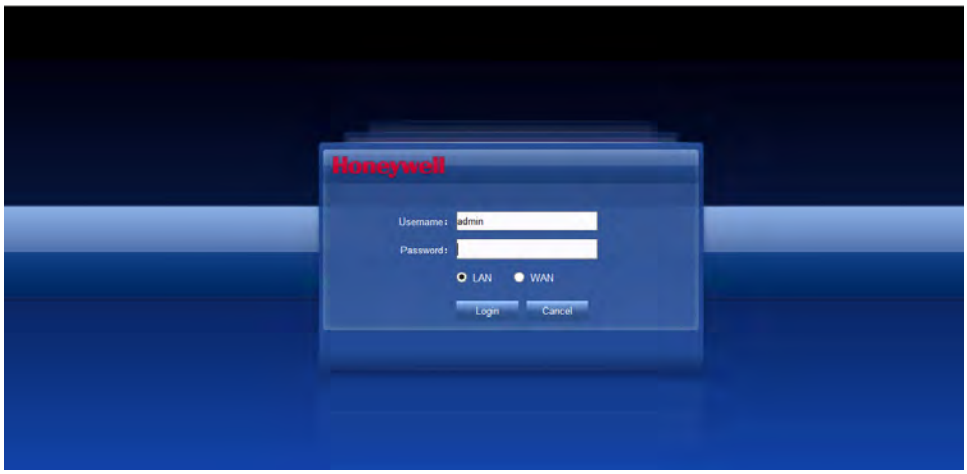
> **Note** For the Multiple-channel monitoring mode, by default, the NVR system assigns an extra stream for monitoring. For each channel, the NVR supports both a Main stream and a Sub stream. For one-channel live viewing, the Main Stream is used; for Multiple-channel viewing, the Sub Stream is used. 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.

Figure 1-14 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.

2

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.

Figure 2-1 Live View Video Window

Table 2-1 Live View Video Window Controls

Table 2-2 Live View Video Window Controls

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

Table 2-2 Live View Video Window Controls

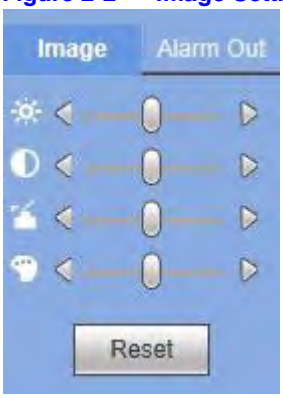
Control	Description
Audio	Turn audio **On** or **Off**. **Note** This control has nothing to do with the system audio setup.
Close Window	Close video in the current window.

Image/Relay-out Settings

Configuring Image Settings

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

Figure 2-2 Image Settings



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

Setting	Description
	Adjusts the monitor's video brightness.
	Adjusts the monitor's video contrast.
	Adjusts the monitor's video hue.
	Adjusts the monitor's video saturation.
	Restores the system to its defaults value.

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

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

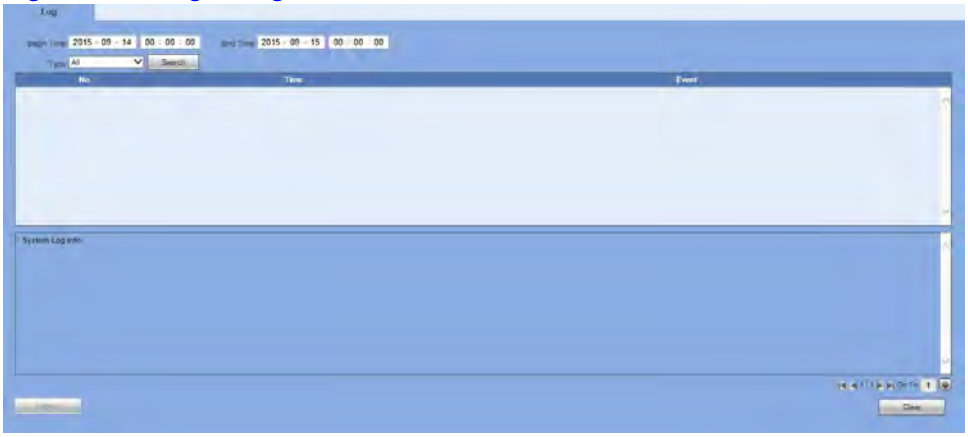


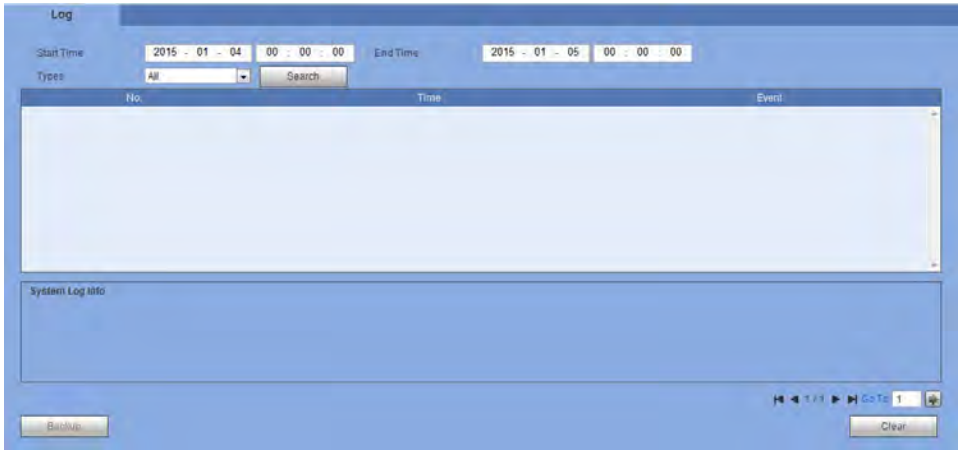
Table 2-4 Log Configurations

Configuration	Description
Start Time	Set a start time for the log.
End Time	Set an end time for the log.
Type	Select from **System Operation**, **Configuration Operation**, **Data Operation**, **Event Operation**, **Record Operation**, **User Management**, **Log Clear**, and **All**.
Search	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.
Detailed Information	Select one item to see its detailed information.
Clear	Click to clear the found log files. **Note** You can not clear by log file.
Backup	Click to backup the currently selected files to the selected PC.

Connection Log

1. Click **Search** to open the **Connection Log** interface.

Figure 2-5 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.

3

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

Table 3-1 Camera Conditions

Setting	Description
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.

Table 3-1 Camera Conditions

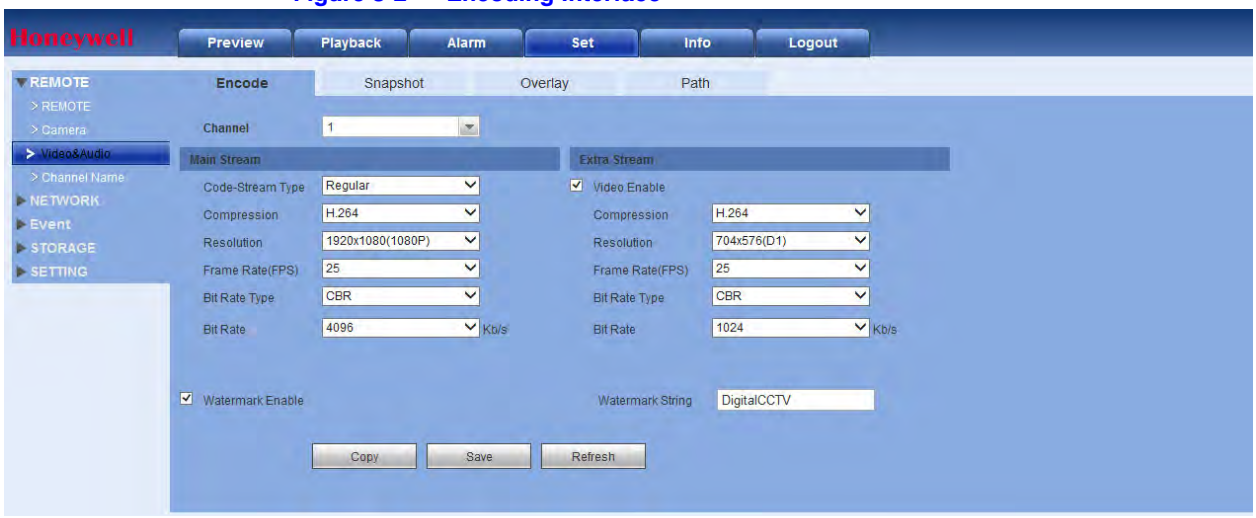
Setting	Description
Brightness	Adjusts the monitor window brightness. The default setting is **50**. The higher the number, the brighter the video. When you select a value, the bright and dark elements of the video are adjusted. Use this function to adjust video brightness when the entire picture is too dark or too bright. Select from **0** to **100**. The recommended range is **40** to **60**. **Note** The video might become washed out if you select a high brightness value.
Contrast	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.
Sharpness	Affects the edge definition of objects in the image. The higher the setting, the more image detail is apparent. **Note** Noise in the image might become noticeable at higher settings.
Period	Divide a day (24-hour period) into two periods, then set different sharpness, brightness, contrast, saturation, and gain settings for each period.
3D NR	Enable/disable 3D noise reduction.
Flip	Select an angle on which the video will be flipped.
Light	Adjust Backlight Compensation. Select either **Low** or **High**.
Scene Mode	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.
Day/Night	Select from **Colorful**, **Auto**, or **B/W**.

Configuring Encoding Settings

Configuring the Encoding

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

Figure 3-2 Encoding Interface



Note If the NVR fails to retrieve the configuration information for your selected camera/channel, then you should navigate to a different window (such as **Snapshot** or **Overlay**), then navigate back to the **Encode** window.

Table 3-2 Encoding Configurations

Setting	Description
Channel	Select a channel from the dropdown list
Code Stream Type	Select from **Main Stream**, **Motion Stream**, and **Alarm Stream**. You can select different encoding frame rates for different recorded events. The NVR system supports active control frame function (ACF), which allows you to record in different frame rates. 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.
Video Enable	Click to enable the extra video stream. Enabled by default.
Compression	The main bit stream supports H.264. The extra stream supports H.264 and MJPG.

Table 3-2 Encoding Configurations

Setting	Description
Resolution	The NVR system supports various resolutions, which you can select from a dropdown list. **Note** 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.
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.

Configuring Snapshot Settings

Figure 3-3 Snapshot Settings Interface

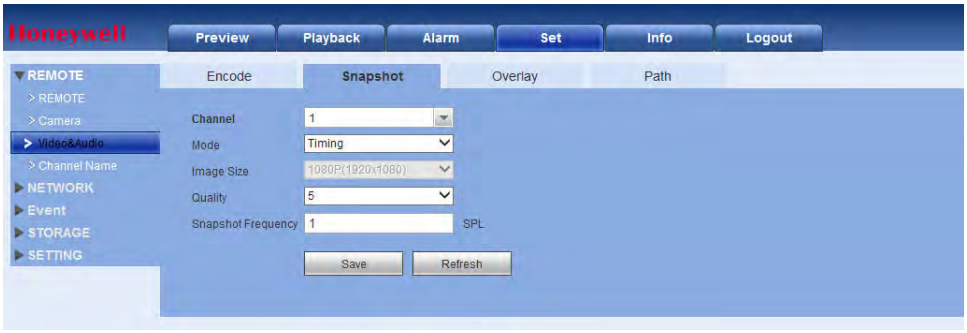


Table 3-3 Snapshot Settings

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

Video Overlay

Figure 3-4 Video Overlay Configurations

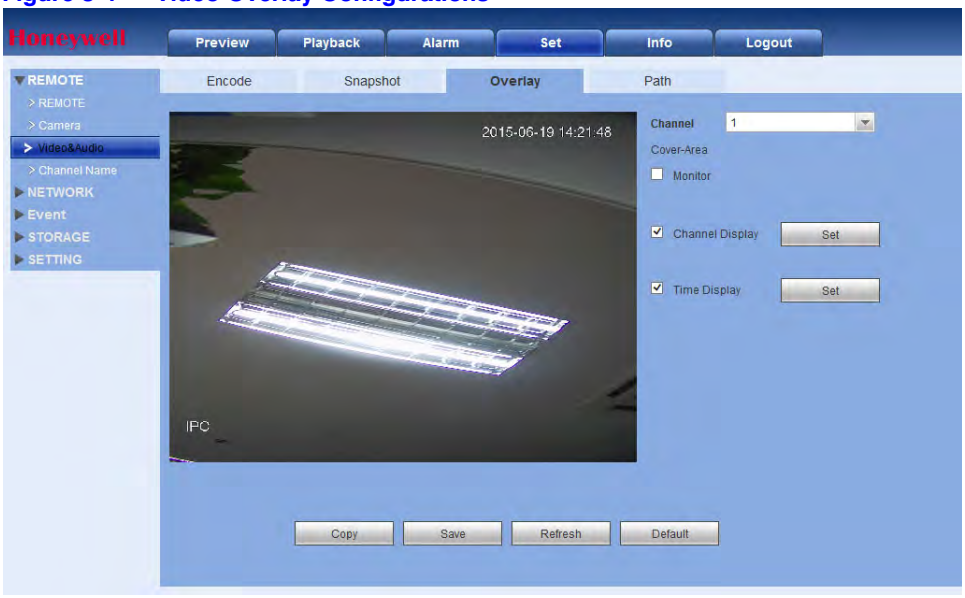


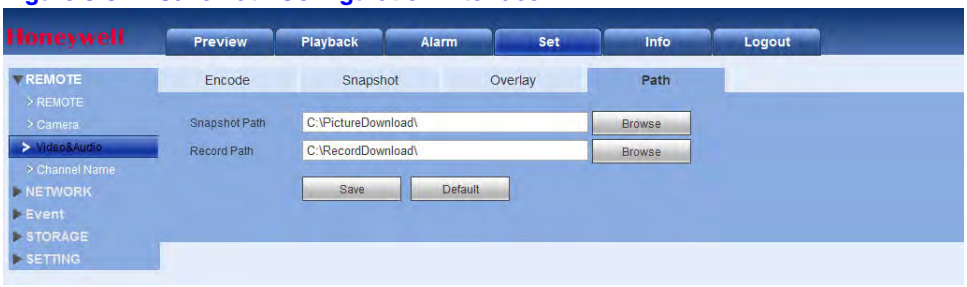
Table 3-4 Video Overlay Configurations

Setting	Description
Cover-Area	1. Select **Preview** or **Monitor**. 2. Click **Set**, then draw a privacy mask on the specified video in preview or on monitor video. The NVR system supports a maximum of four privacy zones.
Channel Display	Enable this function so that the system overlays channel information in the video window. Use the mouse to drag the channel display into position. You can see the channel on the live WEB video or the playback video.
Time Display	Enable this function so that the system overlays time information in the video window. Use the mouse to drag the time display into position. You can see the time on the live WEB video or the playback video.

Configuring the Save Path

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

Figure 3-5 Save Path Configuration Interface



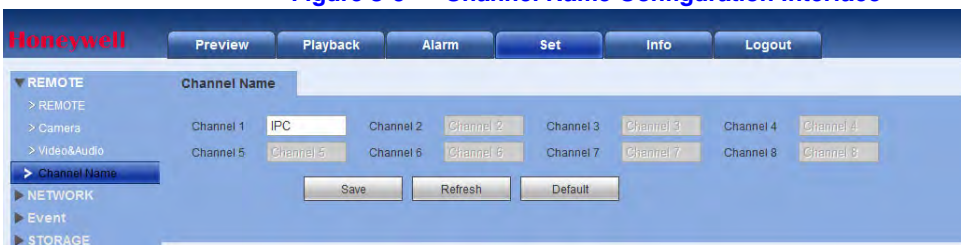
The default save path is **C:\PictureDownload** for snapshots and **C:\RecordDownload** for recorded video.

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.

Figure 3-6 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.

Figure 3-7 TCP/IP Configuration Interface

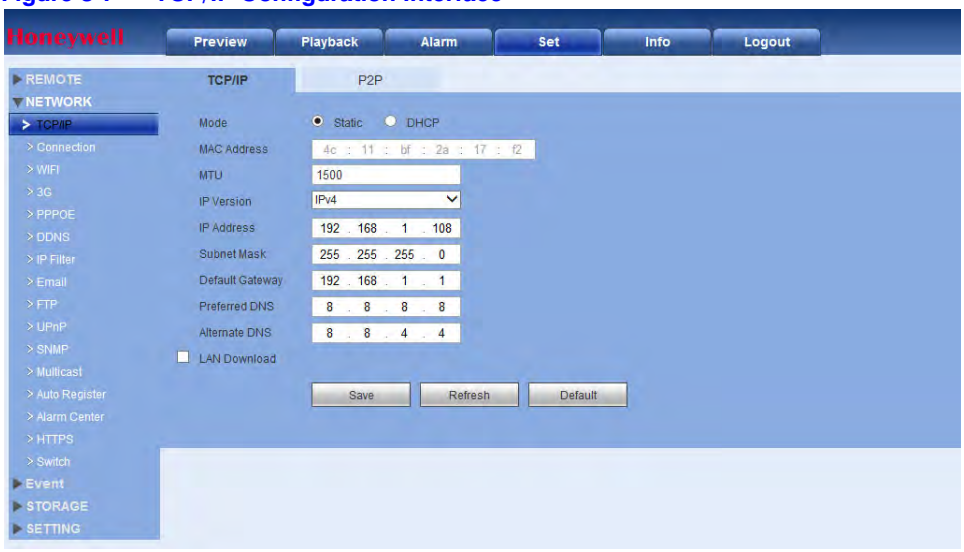


Table 3-5 TCP/IP Configurations

Configuration	Description
Mode	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.

Table 3-5 TCP/IP Configurations

Configuration	Description
Alternate DNS	Enter an alternate DNS IP address.
Note For the IPv6 version IP address, the Preferred DNS and Alternate DNS shall be no more the 128 digits. They also can not be left blank.	
LAN Download	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.

Configuring the Connection

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

Figure 3-8 Connection Configuration Interface

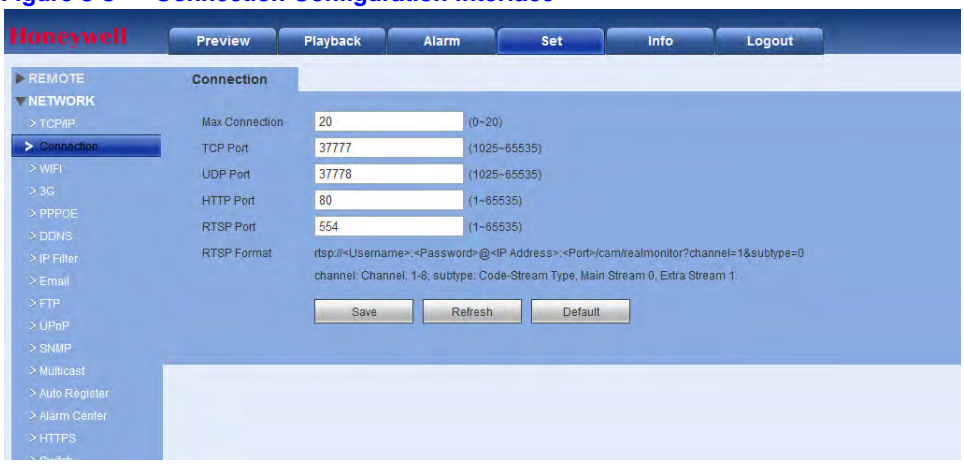


Table 3-6 Network Connection Configurations

Configuration	Description
Max Connection	The maximum Web connection for the same NVR. The value ranges from **1** to **20**. The default is **20**.
TCP Port	The default is **37777**. You can enter the actual port number, if necessary.
UDP Port	The default is **37778**. You can enter the actual port number, if necessary.
HTTP Port	The default is **80**. You can enter the actual port number, if necessary.
RTSP Port	The default is **554**.
RTSP Format	A non-configurable field that shows the RTSP format.

Configuring WIFI

Note This section applies only to devices with Wifi capability, such as tablet computers, smartphones, and laptop computers.

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

Figure 3-9 Wifi Configuration Interface

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

Configuring CDMA/GPRS

1. Click **3G** under **NETWORK** to open the **3G** configuration interface.
2. Click the **CDMA/GPRS** tab to open the **CDMA/GPRS** configuration interface.

Figure 3-10 CDMA/GPRS Configuration Interface

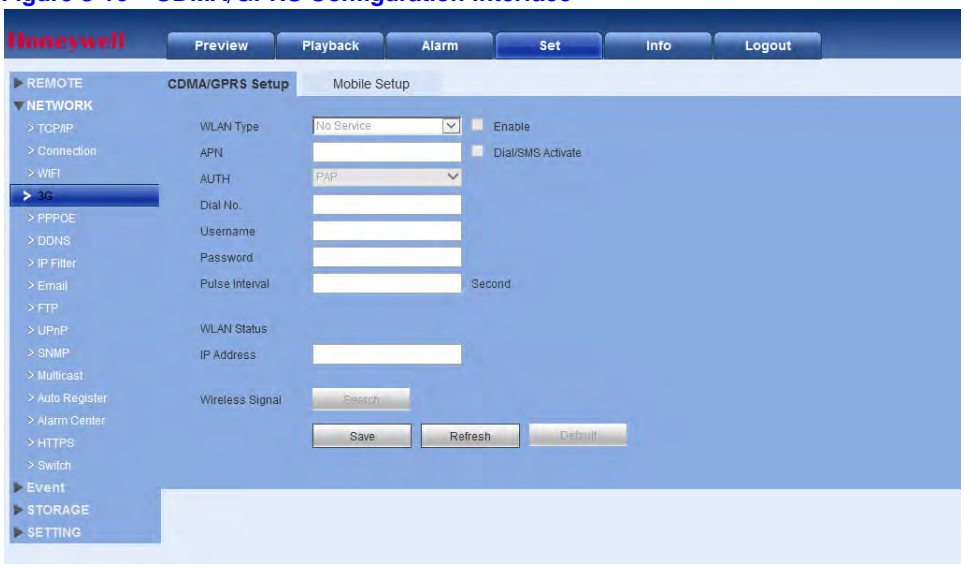


Table 3-7 CDMA/GPRS Configurations

Configuration	Description
WLAN Type	Select a 3G network type to distinguish this 3G module from different ISPs. Choose from **WCDMA**, **CDMA1x**, for example.
APN & Dial No.	**APN** and the **Dial No.** 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.
Dial/SMS Activate	Enable/disable **Dial/SMS Activate**. When enabled, if the user sends an "ON" message by phone to the NVR, then the NVR dials and connects with CDMA/GPRS. If the user sends an "OFF" message by phone to the NVR, then the NVR breaks the link with CDMA/GPRS.
AUTH	Authorization. Choose from **PAP**, **CHAP**, or **NO_AUTH**.
Username / **Password**	Enter a username and password for logging onto the 3G network.
Pulse Interval	Configure a time for ending the 3G connection after you close the extra stream monitor. For example, if you select **60** here, the NVR ends the 3G connection 60 seconds after you close the extra stream monitor.

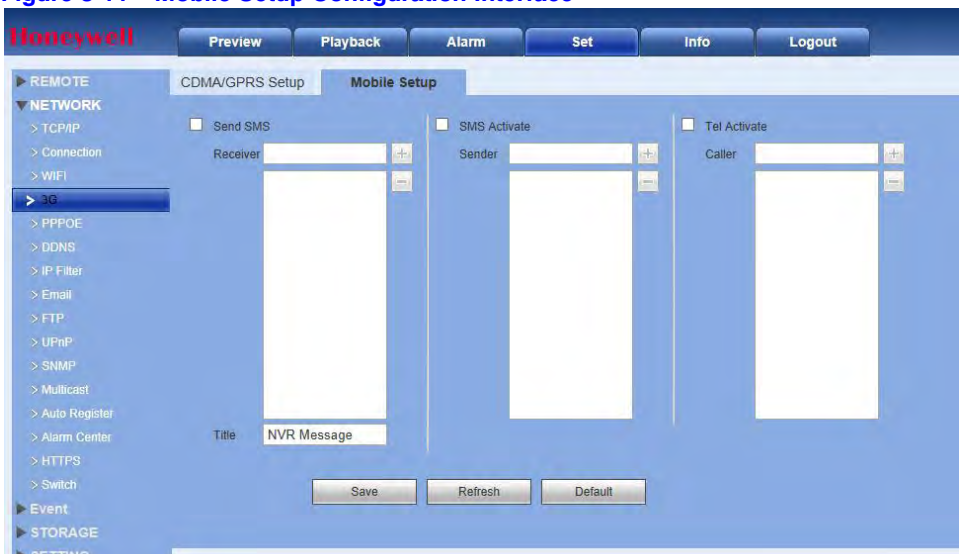
Table 3-7 CDMA/GPRS Configurations

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

Configuring the Mobile Settings

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

Figure 3-11 Mobile Setup Configuration Interface

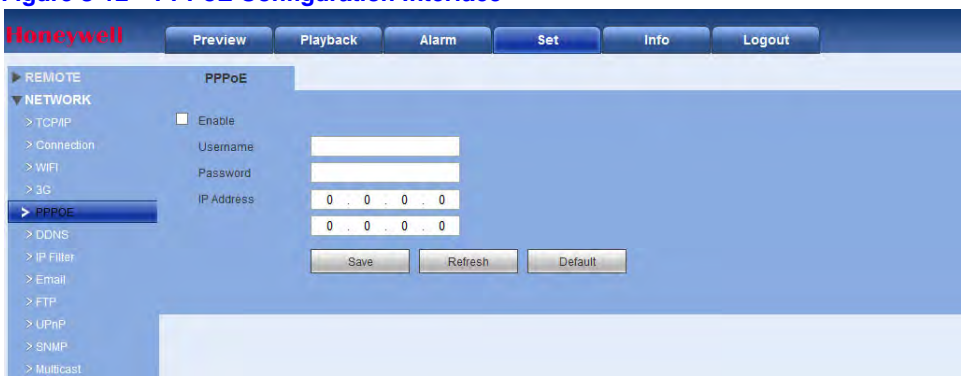


Activate/deactivate 3G connected phones or mobile phones, or the phone you configured to get alarm messages.

Configuring PPPoE

1. Click **PPPoE** under **NETWORK** to open the **PPPoE** configuration interface.

Figure 3-12 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

Configuration	Description
DDNS Type	Select the DDNS protocol from the drop-down list, then enable the DDNS function.
Server IP	The DDNS server IP address.

Table 3-8 DDNS Configuration Options

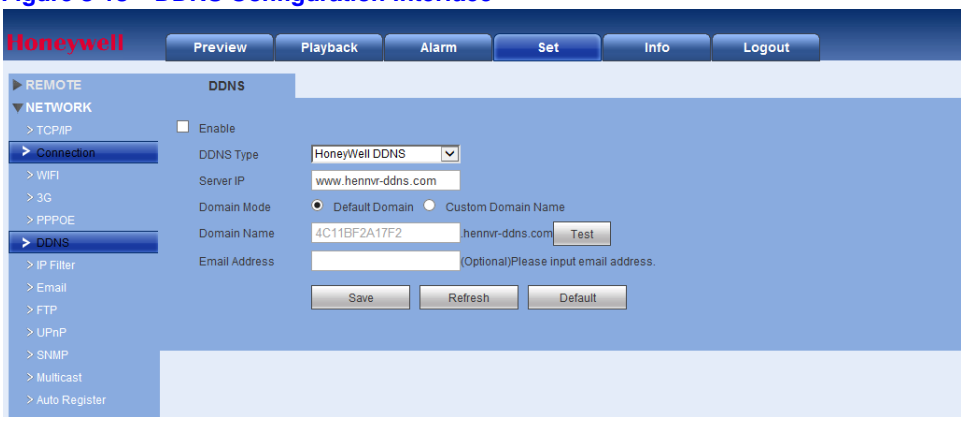
Configuration	Description
Domain Mode	The DDNS server port.
Domain Name	Your self-defined domain name.
Email Address	Server email address.

Honeywell DDNS

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.

Figure 3-13 DDNS Configuration Interface



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 3-9 DDNS Configurations

Parameter	Description
DDNS Type	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.
Server IP	This is the DDNS server IP address. Under **Honeywell DDNS**, the default server address is ***www.hennvr-ddns.com***.
Domain Mode	Select **Default Domain** or **Custom Domain Name**. The default is **Default Domain**. If you select **Custom Domain Name**, then you must enter a domain name.
Domain Name	The default domain name is **MAC address.hennvr-ddns.com.** You can define the prefix.

Table 3-9 DDNS Configurations

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

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.

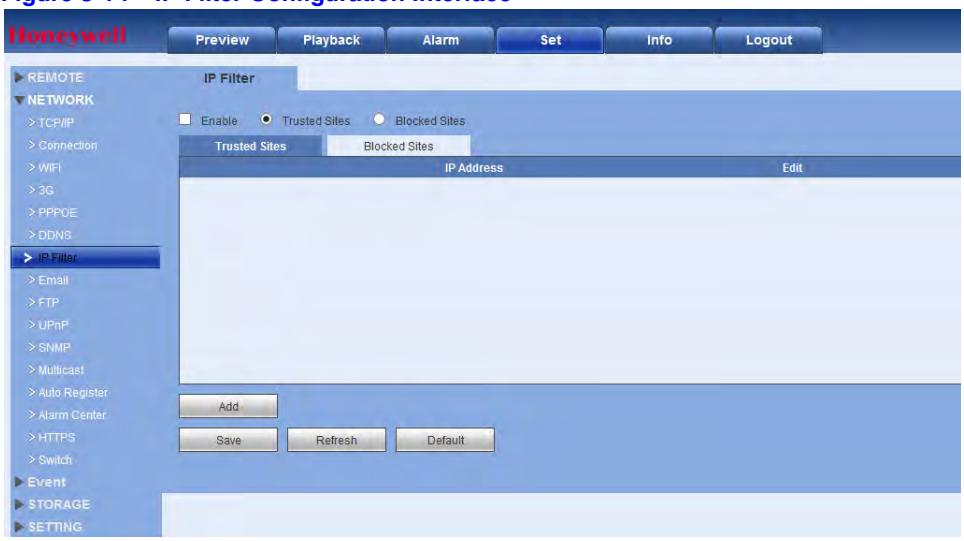
IMPORTANT! Do not register frequently. You must wait at least 60 seconds between attempts at logging in. Too many attempts might cause a server crash.

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.

Figure 3-14 IP Filter Configuration Interface



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.

Figure 3-15 Email Configuration Interface.

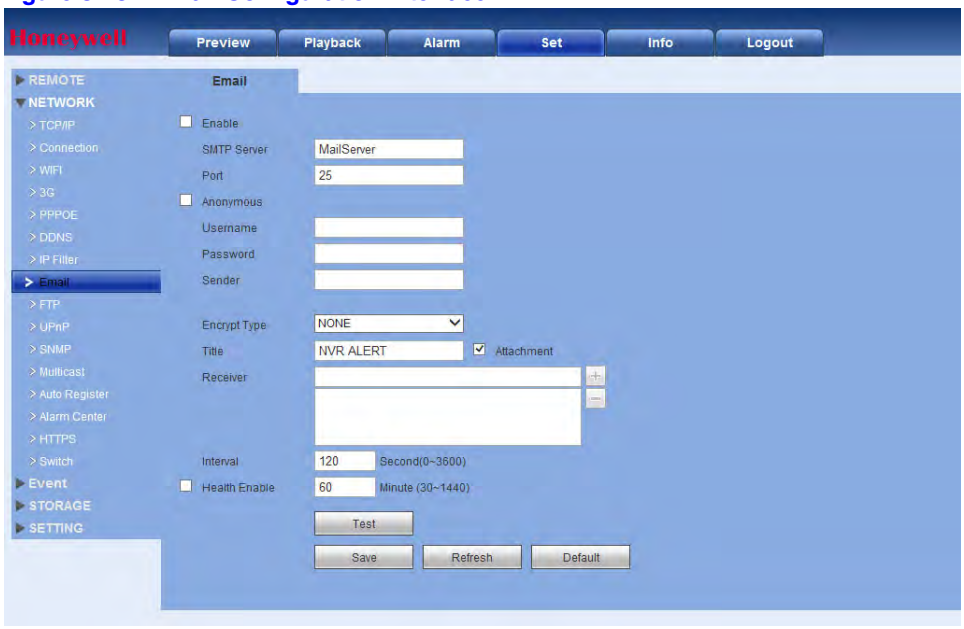


Table 3-10 Email Configurations

Parameter	Description
Enable	Click to enable the email function.
SMTP server	Enter the email SMTP server IP.
Port	Enter the corresponding port. Default is **25**.
Anonymous	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.
User Name	Enter the user name for logging in to the sender's email box.
Password	Enter the login password here.
Sender	Enter the sender's email address.
Encrypt Type	Select from **NONE**, or **SSL**.
Title	Enter an email subject. You can use up to 32 letters or numbers.
Attachment	Click to enable so that a snapshot can be attached to the email.
Receiver	Enter the receiver's email address. You can enter up to 3 email boxes. You can use SSL or TSL email boxes.

Table 3-10 Email Configurations

Parameter	Description
Interval	The interval for sending ranges from **0** to **3600** seconds. **0** means that there is no interval. **Note** The system will not send an email immediately when the alarm occurs. When an alarm, motion detection, or video abnormality triggers an email, the system sends out the email according to the interval that is specified here. This function is very useful when there are too many emails activated by events, which might result in an overload for the email server.
Health enable	Click to enable the email health check. The NVR sends a test email to check the network connection. After enabling **Health Enable**, you can configure how frequently the NVR sends out emails to test the network connection.
Update Period (Interval)	Allows the system to send out a test email to check the connection. Check the box to enable this function, and then set the corresponding interval for the system to send out regular test emails.
Test	Click **Test** to send a test email. A popup message appears to indicate the state of the network connection.

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

Table 3-11 FTP Configurations

Setting	Description
Server IP	Enter the IP address for the server.
Port	Enter the Port number for the server.
Username	Enter the user name for logging into the server.
Password	Enter the password for logging into the server.
Anonymous	Click to enable/disable anonymously logging into the server.
Remote Directory	When the remote directory is null, the NVR automatically creates folders according to the IP, time, and channel.
File Length	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.
Image Upload Interval	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.
Channel	Select a channel.
Weekday	Select a weekday.
Time Periods	You can configure up to two time periods per channel.
Recording Type	Select from **Alarm**, **Motion**, or **Regular**.

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.

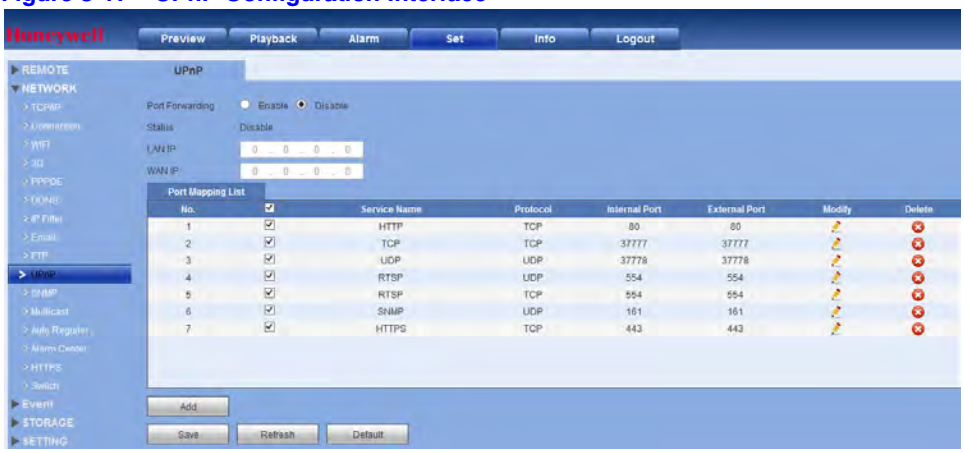
Preparing for UPnP

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.

Figure 3-17 UPnP Configuration Interface



2. Configure the following settings:

Enable	Click to enable or disable UPnP.
LAN IP	Enter the NVR's IP address from the **TCP/IP** page.
WAN IP	Enter the router's IP address.

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.

Figure 3-18 SNMP Configuration Interface

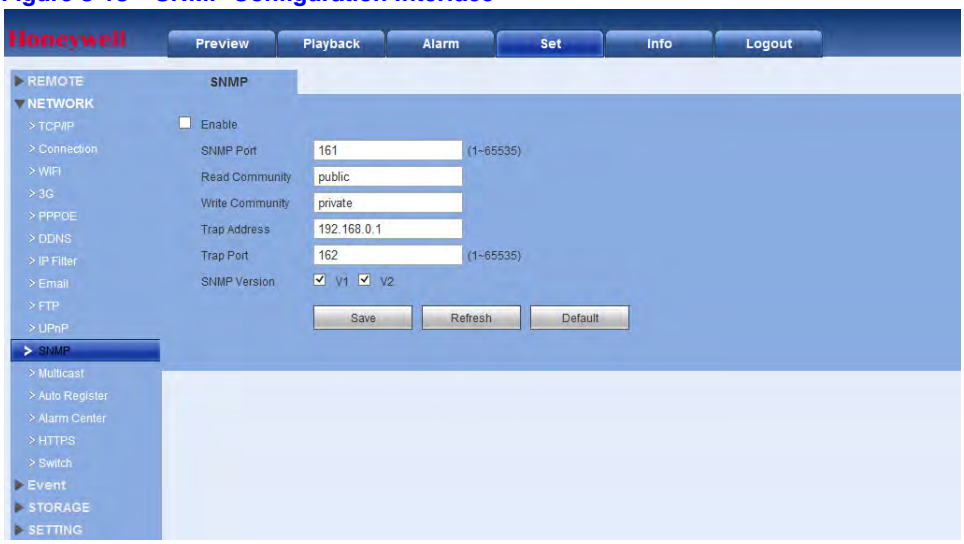


Table 3-12 SNMP Configurations

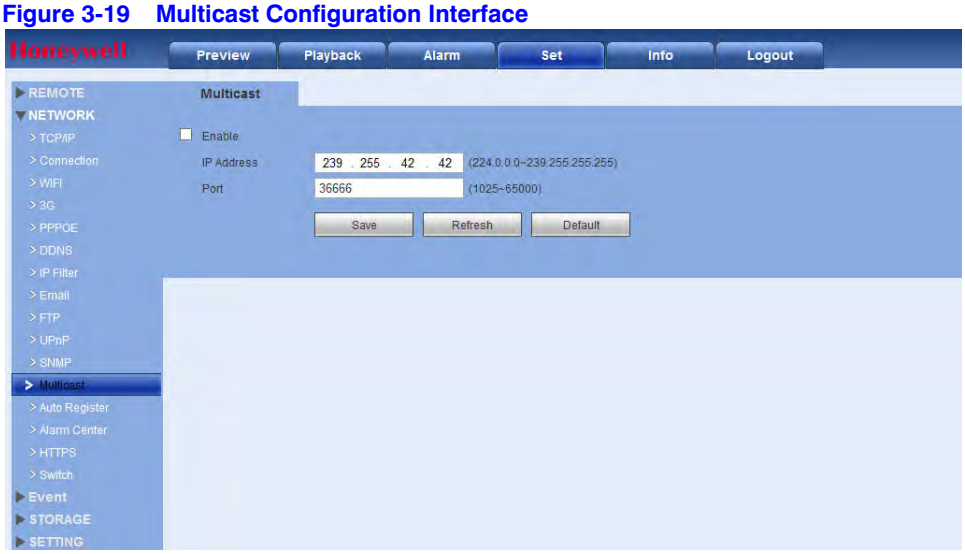
Configuration	Description
SNMP Port	The listening port of the proxy program of the NVR. It is a UDP port, not a TCP port. This value ranges from **1** to **65535**. The default is **161**.
Read Community	This is a string, and it is a command between the managing processes and the proxy process. **Read Community** 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 **Read Community** reads all the objects the SNMP supports in the specified name. The default is **Public**.
Write Community	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 **Write**.
Trap Address	The **Trap** information destination address from the device's proxy program.
Trap Port	The **Trap** 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.
SNMP Version	If you check **V1**, then the system processes only the V1 information. If you check **V2**, then the system processes only the V2 information.

Multicast

Multicast is a transmission mode for data packets. When there are multiple hosts to receive the same data packets, multiple cast 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



2. Select **Enable** to enable multicast.
3. 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.
4. Enter a multicast port number in the **Port** box, or use the default setting (**36666**).
5. Click **Apply** to save your settings.
6. 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.

Figure 3-20 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**.

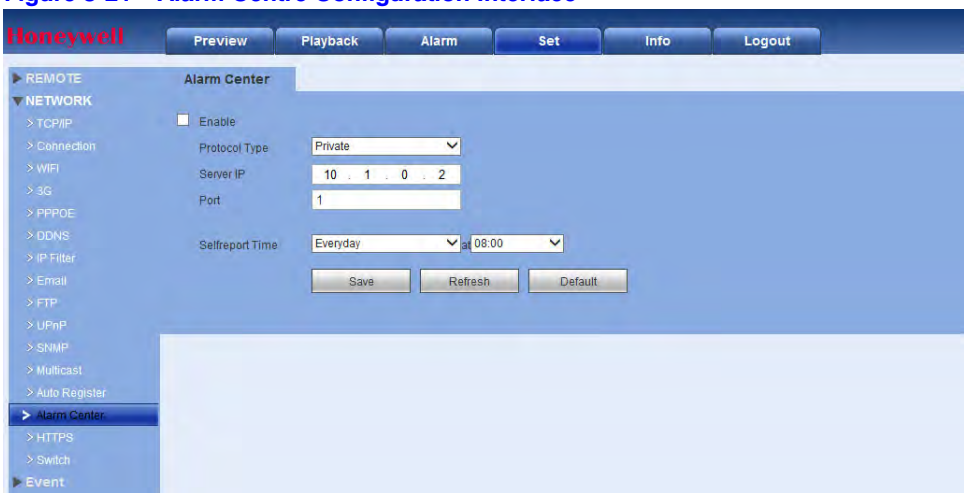
Alarm Centre

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.

Figure 3-21 Alarm Centre 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 

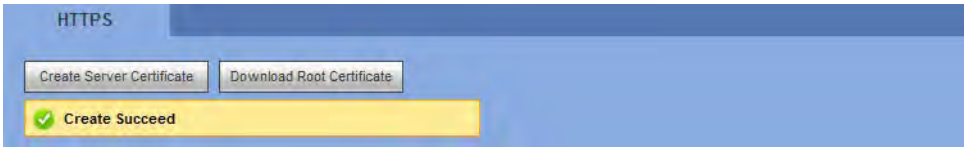
to open the **Create Server Certificate** window.

Figure 3-23 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



Downloading a Root Certificate

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

Figure 3-25 File Download Warning

2. Click **Open** to open the **Certificate** window.

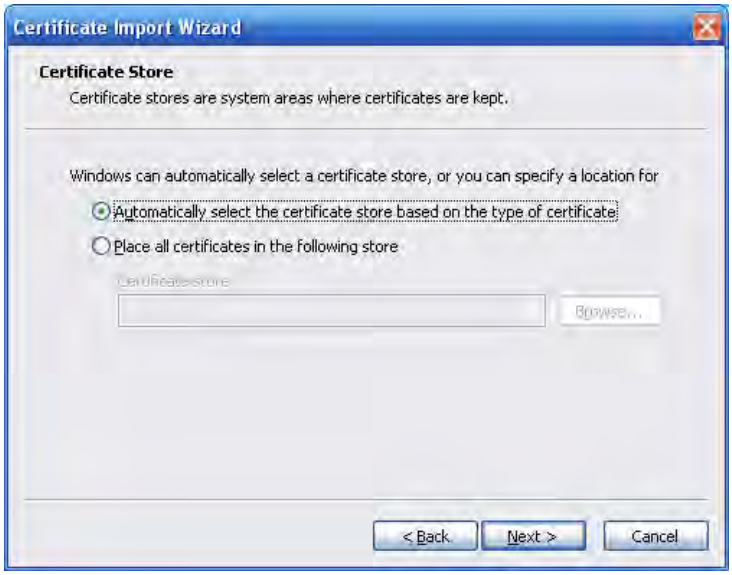
Figure 3-26 Certificate Window

3. Click **Install Certificate** to open the **Certificate Import Wizard**.

Figure 3-27 Certificate Import Wizard

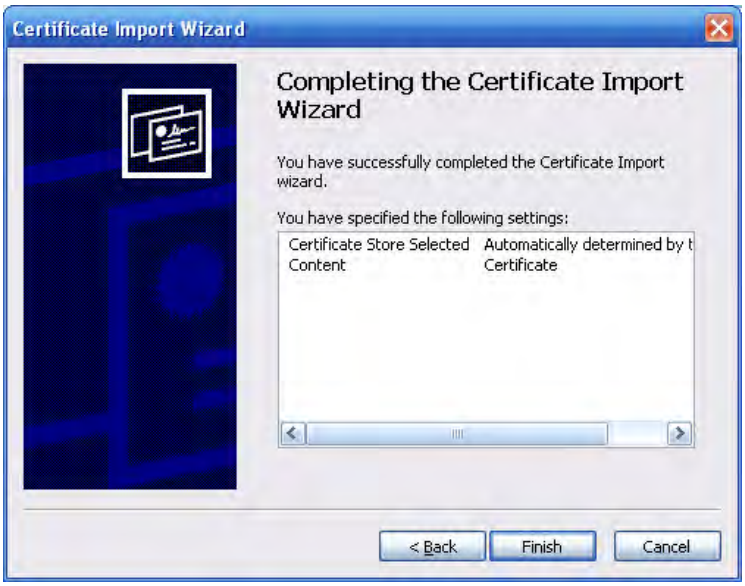
4. Click **Next** to open the Certificate Store window.

Figure 3-28 Certificate Import Wizard - 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.

Figure 3-29 Certificate Import Wizard - Completion Message



7. Click **Finish**, and a security warning pops up.

Figure 3-30 Security Warning

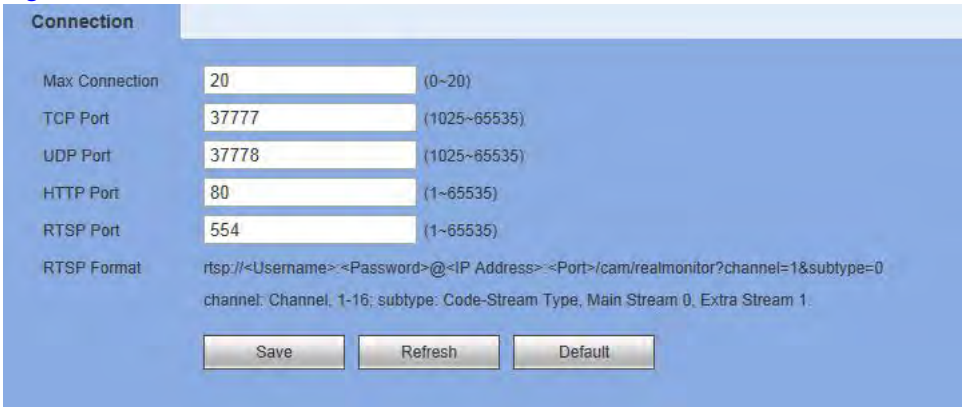
8. Click **Yes**. When the installation is complete, a confirmation message appears.

Figure 3-31 Certificate Import - Confirmation Message

Viewing and Setting the HTTPS Port

Click **Connection** under **Network** to open the **Connection** interface.

Figure 3-32 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.

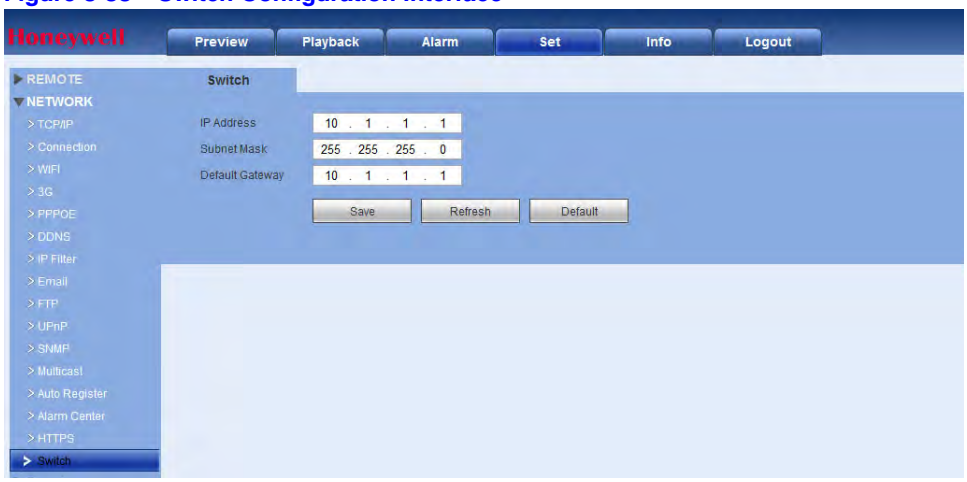
   If you have the correct settings, then you should see the login interface.

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.

Figure 3-33 Switch Configuration Interface



2. Configure the following settings:

Table 3-13 Switch Configurations

Configuration	Description
IP Address	Enter a new IP address.
Subnet Mask	Enter a new subnet mask.
Default Gateway	Enter a new default gateway.

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

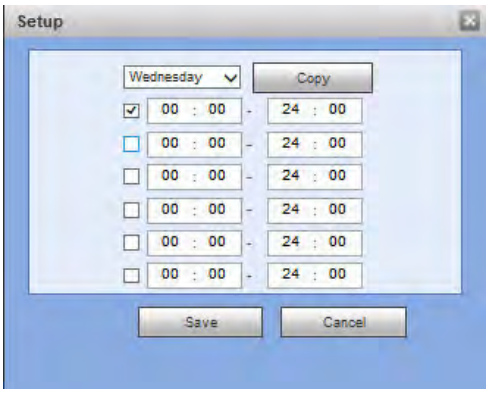
Configuration	Description
Enable	Click to enable motion detection. Select a channel from the drop-down list.
Period	Define a period during which motion detection is active. 1. Click **Set**. The **Set** configuration interface appears.  2. Select a day of the week from the drop-down menu. Select from a day of the **week**, **Work Day**, or **Free Day**. **Note** 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**. **Note** You can configure up to 6 periods within one day. 3. Configure a time range for when the event detection area is active, then click the check box to select that time range. 4. Click **Save**.

Table 3-14 WEB - Motion Detection Configurations

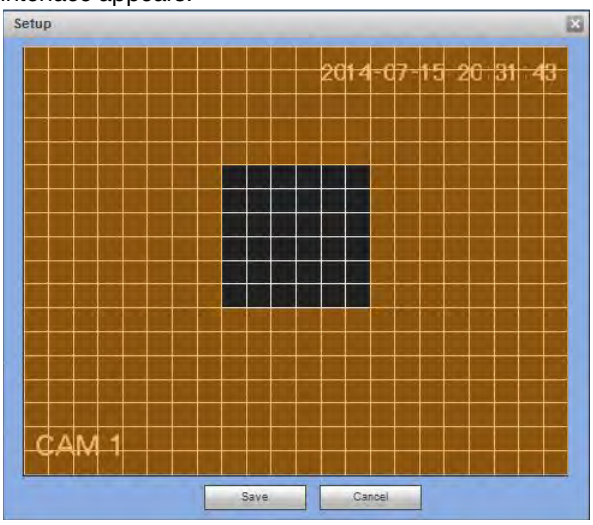
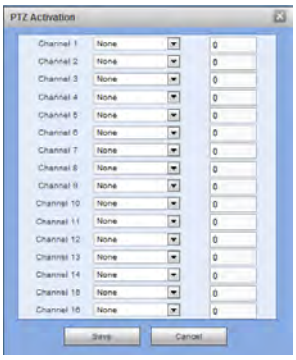
Configuration	Description
Region	1. Select a motion detection type. 2. Click **Set**. The **Motion Detection Set** configuration interface appears.  3. Select the event detection area by left-clicking and dragging the mouse. There are 396 (PAL) or 330 (NTSC) small zones. **Green**: Indicates the current 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**.

Table 3-14 WEB - Motion Detection Configurations

Configuration	Description
PTZ Activation	When PTZ activation is configured, the system can activate PTZ operation when an alarm is detected. 1. Click **Setup** to open the **PTZ Activation** configuration interface.  2. Select a preset, tour, or pattern from the drop-down menu. 3. Click **Save**.
Tour	Click to enable a tour to be triggered by an alarm. The system supports 1/8-window tour. Refer to the User Guide for more about tour interval setup. On the **Display Settings** tab, when there are two tours enabled by default, you can configure the system so an alarm triggers the system to enable the alarm tours you configured here. If there is no alarm, then the system uses the tour setup that was configured in the **Display** interface.
Snapshot	Click to enable the **Snapshot** function. Channel snapshots are taken according to the schedule you configure. Alarm snapshots are taken when an alarm occurs.
Show Message	Click to enable a pop-up message on your local host PC screen to let you know an alarm has occurred.
Send Email	The system can send an email when an alarm is detected. When you have enabled the **Snapshot** function, the system can also send an image attached to the email. Go to **Network ➤ Email** to configure the email settings. Refer to the **User Guide** for more information.
Alarm Upload	Enable this function, and when a motion event is detected, an alarm message is uploaded to the NVR.
Buzzer	Click to enable the **Buzzer** function. When an alarm occurs, the buzzer beeps.

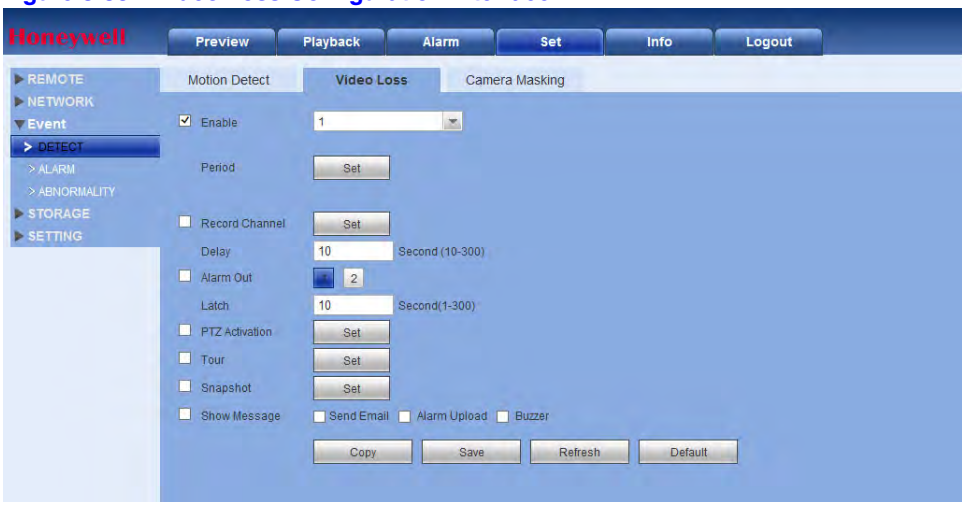
Video Loss Detection Configurations

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



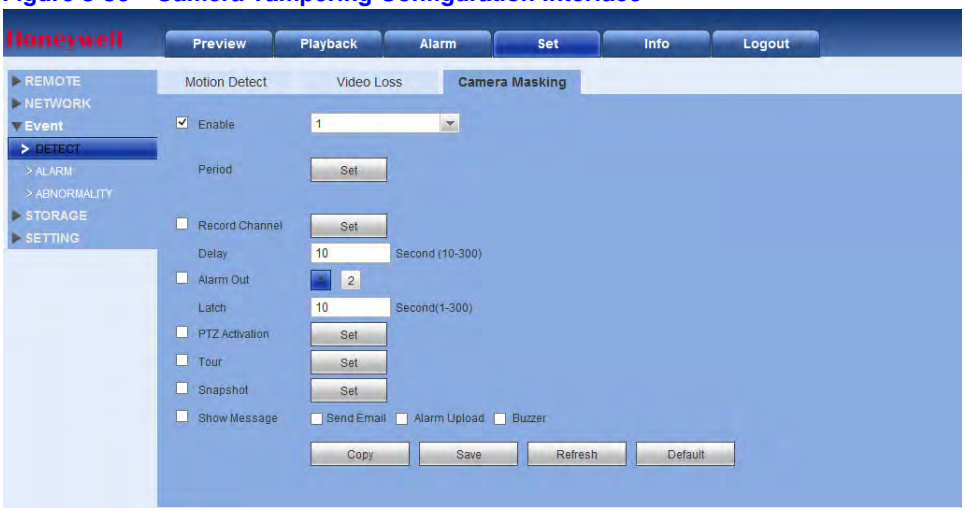
The configuration for **Video Loss Detection** is very similar to the configuration for **Motion Detection**. Please see *Motion Detection Configurations on page 62* for more information.

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.

Figure 3-36 Camera Tampering 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.

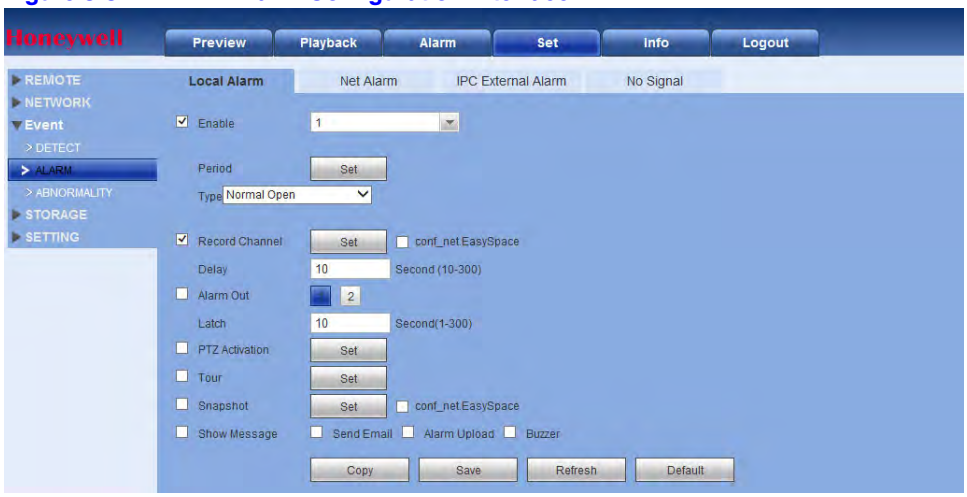
Configuring Alarms

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



00Configuring Net Alarms

Table 3-15 WEB - Alarm Configurations

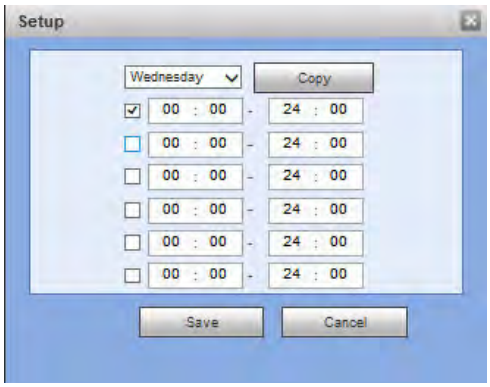
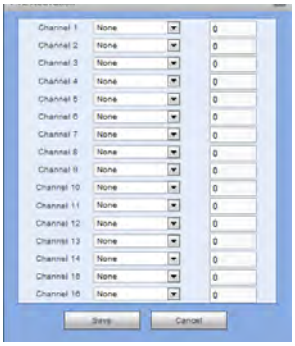
Configuration	Description
Enable	Click to enable alarms. Select a channel from the drop-down list.
Period	Define a period during which the alarm is active. 1. Click **Set**. The **Set** configuration interface appears.  2. Select a day of the week from the drop-down menu. Select from a day of the **week**, **Work Day**, or **Free Day**. **Note** 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**. **Note** You can configure up to 6 periods within one day. 3. Configure a time range for when the event detection area is active, then click the check box to select that time range. 4. Click **Save**.
Type	Select either **NO** or **NC**.
Record Channel	The system automatically starts recording selected channels when a motion detection alarm occurs. **Note** You need to set the alarm recording period. Go to **Storage ➤ Schedule** to configure the current channel for scheduled recording. See *Configuring Local Storage on page 76*.
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**.

Table 3-15 WEB - Alarm Configurations

Configuration	Description
PTZ Activation	When PTZ activation is configured, the system can activate PTZ operation when an alarm is detected. 1. Click **Setup** to open the **PTZ Activation** configuration interface.  2. Select a preset, tour, or pattern from the drop-down menu. 3. Click **Save**.
Tour	Click to enable a tour to be triggered by an alarm. The system supports 1/8-window tour. See *Configuring Display Settings on page 80* for tour interval setup. On the **Display Settings** tab, when there are two tours enabled by default, you can configure the system so an alarm triggers the system to enable the alarm tours you configured here. If there is no alarm, then the system uses the tour setup that was configured in the **Display** interface.
Snapshot	Click to enable the **Snapshot** function. Channel snapshots are taken according to the schedule you configure. Alarm snapshots are taken when an alarm occurs.
Show Message	Click to enable a pop-up message on your local host PC screen to let you know an alarm has occurred.
Send Email	The system can send an email when an alarm is detected. When you have enabled the **Snapshot** function, the system can also send an image attached to the email. Go to **Main Menu ➤ Setting ➤ Network ➤ Email** to configure the email settings. See *Configuring Email on page 50*.
Alarm Upload	Select the check box to enable the system to upload an alarm signal to the network (including to an alarm center and/or web client).
Buzzer	Click to enable the **Buzzer** function. When an alarm occurs, the buzzer beeps.

Network Alarm are the alarm signals from the TCP/IP. You cannot select the sensor type or anti-dither functions.

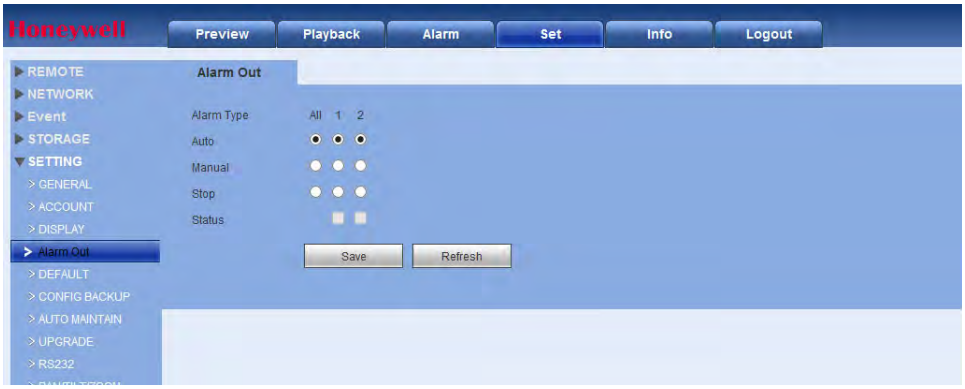
Click **Net Alarm** in the **ALARM** configuration interface.

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

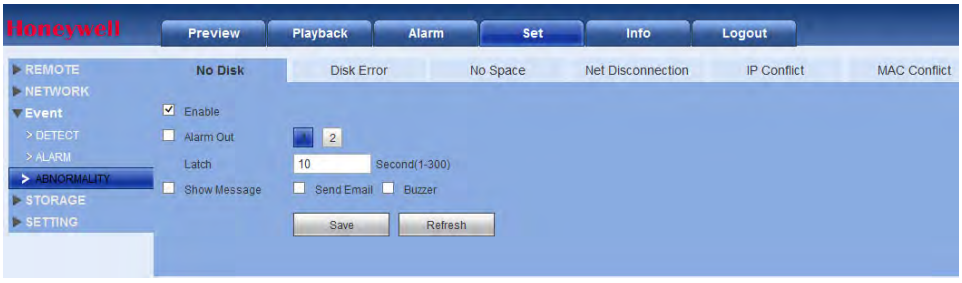


2. Click to enable the alarm output for each alarm. Select from **Schedule**, **Manual**, or **Stop**, and **Status**.
3. Click **Save** to save these settings and return to the previous menu.

Configuring for Abnormalities

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

Figure 3-40 WEB - Abnormality Configuration Interface

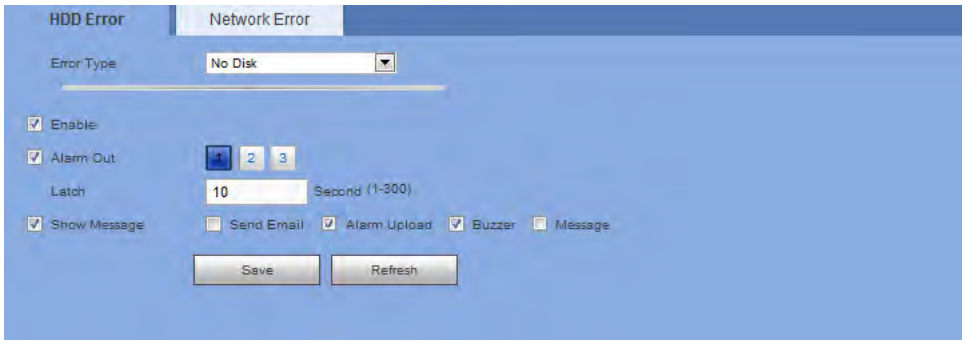


There are six types of abnormalities:

- 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



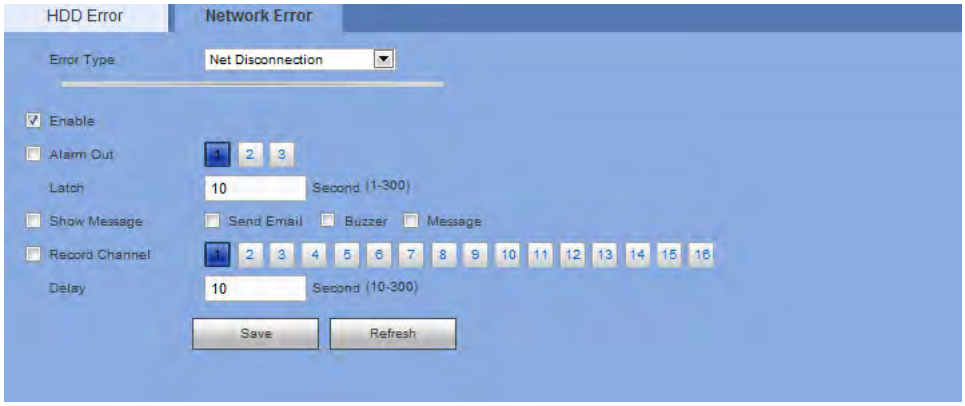


Table 3-16 Configuring for Abnormalities

Configuration	Description
Event Type	Select from **No Disk**, **Disk Error**, **Disk No Space**, **Net Disconnection**, **IP Conflict**, and **MAC Conflict**. **Less Than**: (For **No Space** configuration only) Configure the minimum percentage of free space on the disk. An alarm lets you know when the disk capacity is low. You need to click to enable this function.
Enable	Click to enable this function.
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**.
Show Message	Click to enable a pop-up message on your local host PC screen to let you know an alarm has occurred.
Send Email	The system can send an email when an alarm is detected. When you have enabled the **Snapshot** function, the system can also send an image attached to the email. Go to **Main Menu ➤ Setting ➤ Network ➤ Email** to configure the email settings. Refer to the User Guide for more information.
Buzzer	Click to enable the **Buzzer** function. When an alarm occurs, the buzzer beeps.

Configuring Storage

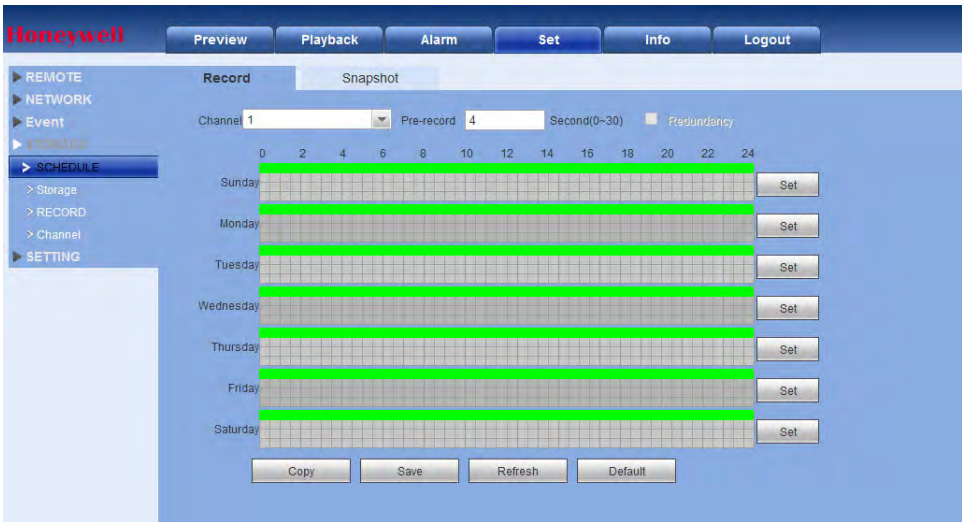
Configuring Storage Schedules

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.

Figure 3-42 Schedule Configuration Interface



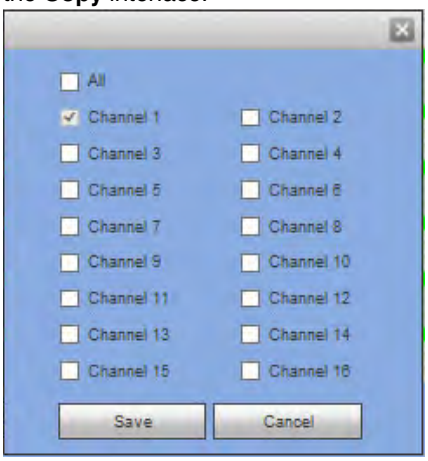
The schedules are color-coded by type:

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

Table 3-17 Scheduled Storage Settings

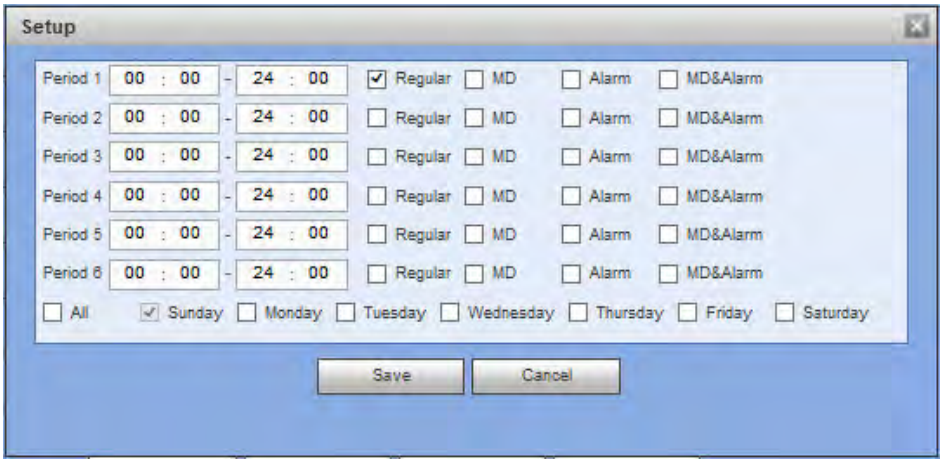
Setting	Description
Channel	Select a channel from the drop-down list
Pre-record	Enter a pre-recording time here. Select from **0** to **30**.
Redundancy	You can configure the NVR to backup recorded files onto two different HDDs. Click to enable. **Note** Before you can enable this function, you must configure at least one HDD as redundant. Go to **Main Menu ➤ Setting ➤ Storage ➤ HDD Management**). This function is not available if there is only one HDD.
Snapshot	Click to enable **Snapshot**.
Holiday	Click to enable **Holiday**.

Table 3-17 Scheduled Storage Settings

Setting	Description
Setup (Sunday to Saturday)	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.
Setup (Holiday)	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.
Copy	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**.

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

Configuration	Description
Channel	Select a channel from the drop-down list.
Regular	Check to enable the **Regular** schedule mode.
Motion	Check to enable the **Motion Detection** schedule mode.
Alarm	Check to enable the **Alarm** mode.
MD&Alarm	Check to enable the **MD&Alarm** mode.

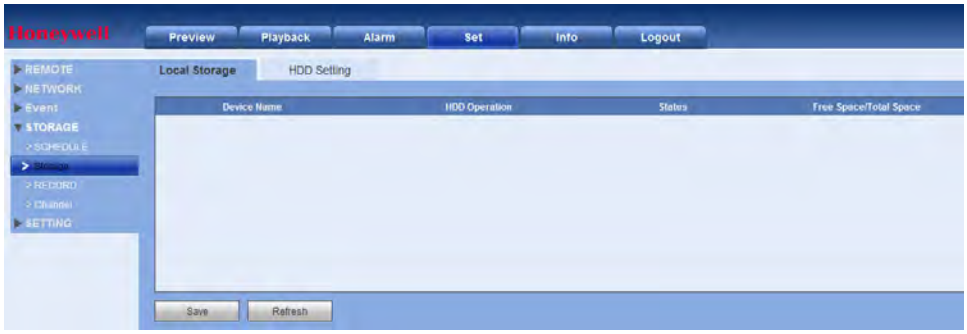
4. Click **Save** to save the settings, and then click **Save** to save the **Schedule** configuration.

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.

Figure 3-45 Manual Recording Storage Interface

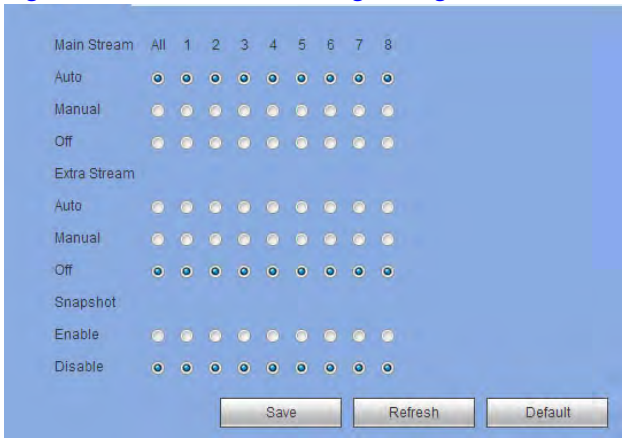


Table 3-19 Recording Storage Interface

Setting	Description
Channel	See the channel numbers, including the maximum number of channels.
Auto	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*.
Manual	This is the highest priority. Enable the corresponding channel to record not matter what period was applied in the **Recording Setup**.
Off	Stop recording the current channel no matter what recording setup is applied to that channel.
Start All/Stop All	Click the **All** button, and then enable or disable recording on all channels.

Configuring General Settings

General Settings

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

Figure 3-46 General Settings Interface

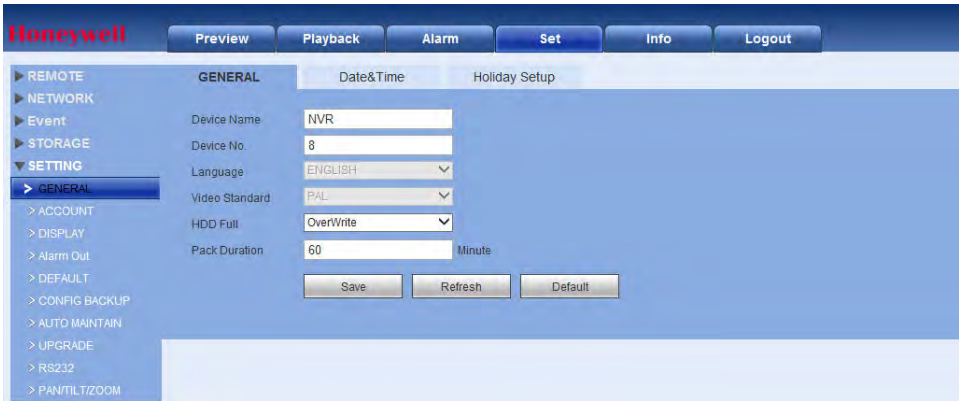


Table 3-20 General Settings Configurations

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

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

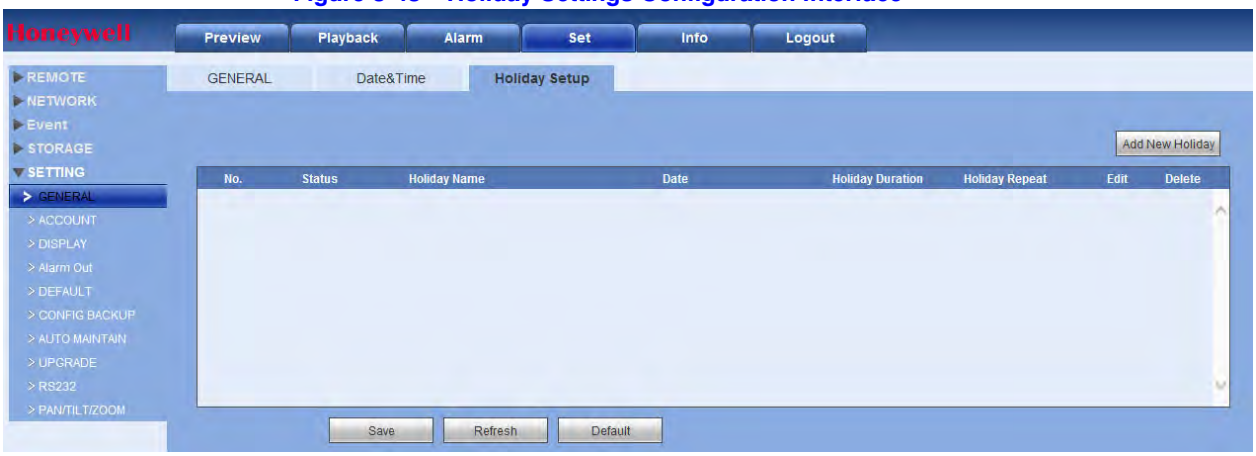
Table 3-21 Date & Time Configurations

Configuration	Description
Date Format	Select the date format from the drop-down list.
Time Format	Select from either **24 hour** or **12 hour**.
Date Separator	Select from a period (**.**), a hyphen (**-**), or a slash (/).
System Time	Set the NVR's time. You have to **Save** to activate this setting.
Sync PC	Click to synchronize your NVR's time with your PC's time.
Time Zone	Select a Time Zone for the NVR.
DST	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.
NTP	Click to enable the **NTP** server.
NTP Server	Enter the NTP time server address.
Port	Enter the NTP time server port.
Upgrade Period/Interval	Configure the synchronization period between the NVR and the NTP time server.

Holiday Settings

1. Click the **Holiday Setup** tab in the **GENERAL** settings configuration interface to open the **Holiday Setup** configuration interface.

Figure 3-48 Holiday Settings 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.

Figure 3-49 Display Configuration Interface

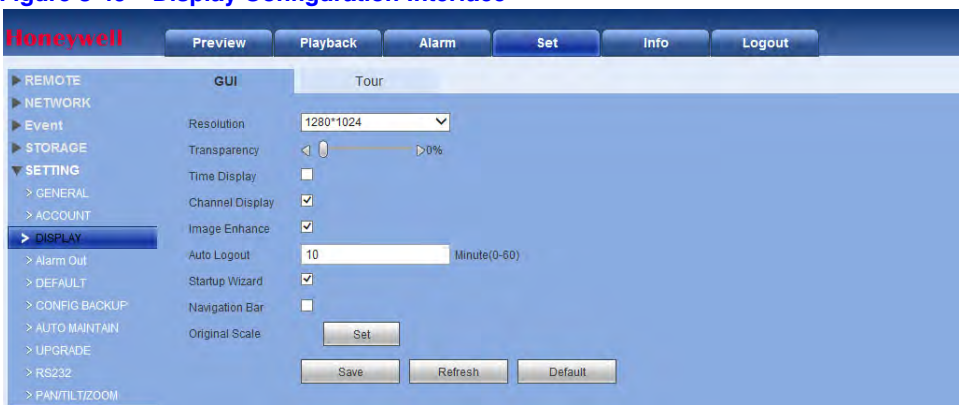


Table 3-22 GUI Configurations

Configuration	Description
Resolution	Select from four options: **1920x1080**, **1280x1024** (default), **1280x720**, and **1024x768**. **Note** You need to reboot the NVR to activate changes to the resolution.
Transparency	Configure the transparency of the GUI display. Select from **128** to **255**.
Time Display/Channel Display	Click to enable these functions, which display the time and channel on the video monitor.

Table 3-22 GUI Configurations

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

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.

Figure 3-50 Tour Configuration Interface

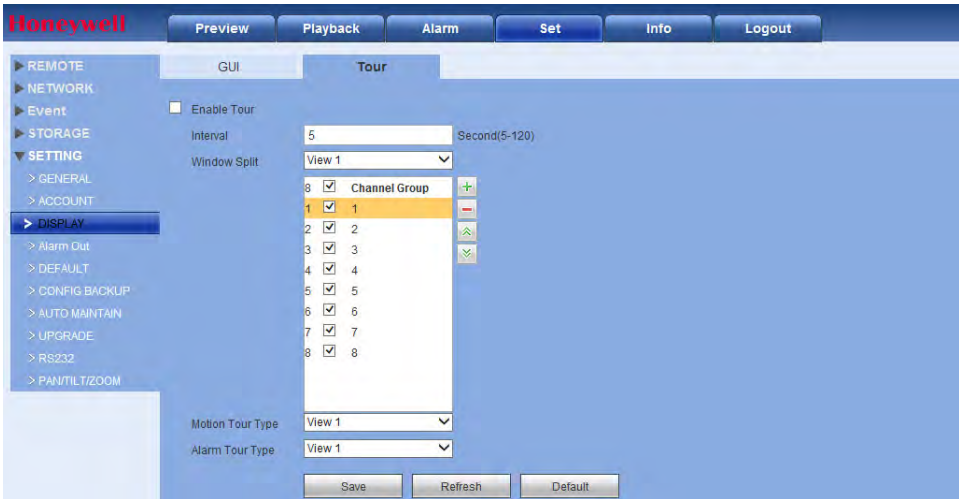


Table 3-23 Display Tour Settings

Setting	Description
Enable Tour	Check to enable this function.
Interval	Adjust the transparency. Select from **5s** to **120s**. The default is **5s**.

Table 3-23 Display Tour Settings

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

RS232 Configurations

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

Figure 3-51 WEB - RS232 Configuration Interface

Table 3-24 RS232 Web Configurations

Setting	Description
Function	Select the corresponding dome **Protocol**. The default is **Console**.
Baud Rate	Select the **Baud Rate**. The default is **115200**.
Data Bit	Select from **5** to **8**. The default is **8**.
Stop Bit	Choose either **1** or **2**. The default is **1**.
Parity	Select from **None**, **Odd**, **Even**, **Space**, or **Mark**. The default is **None**.

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

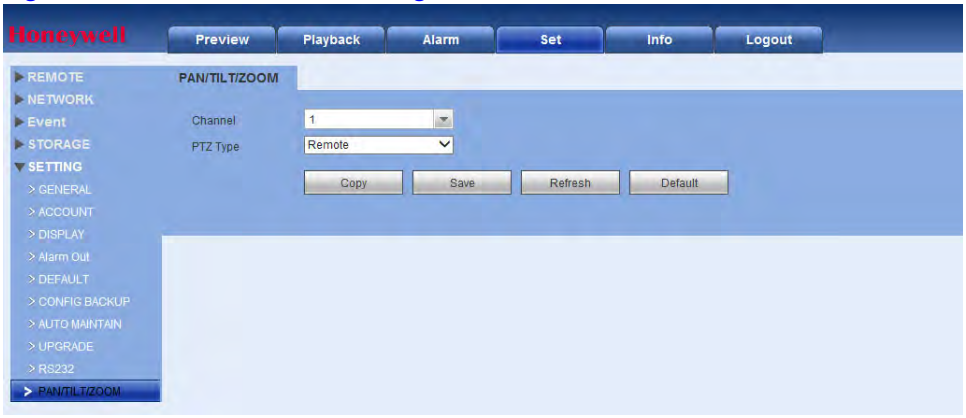


Table 3-25 PAN/TILT/ZOOM Configuration Interface

Setting	Description
Channel	Select a channel.
PTZ Type	Select **Remote** for the PTZ type. A remotely connected IP camera is connected through the network.

Accounts

Some Basic User and Group Rules

- You can use up to 6 characters for user names and group names. You can not 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.

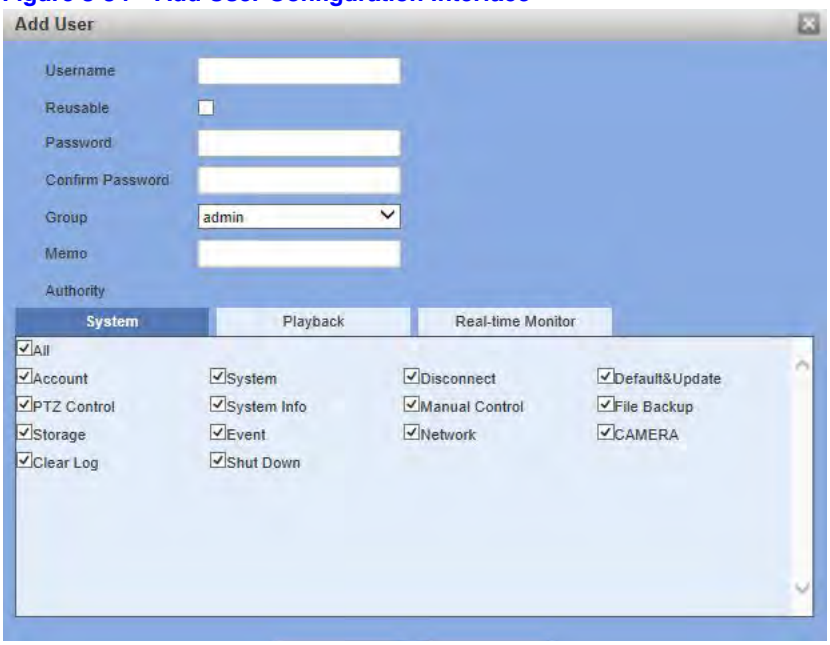
Note User rights can not exceed group rights.

TIP! General users should have fewer rights than administrators.

Adding a User

1. Click **Add User**. The **Add User** configuration interface opens.

Figure 3-54 Add User Configuration Interface

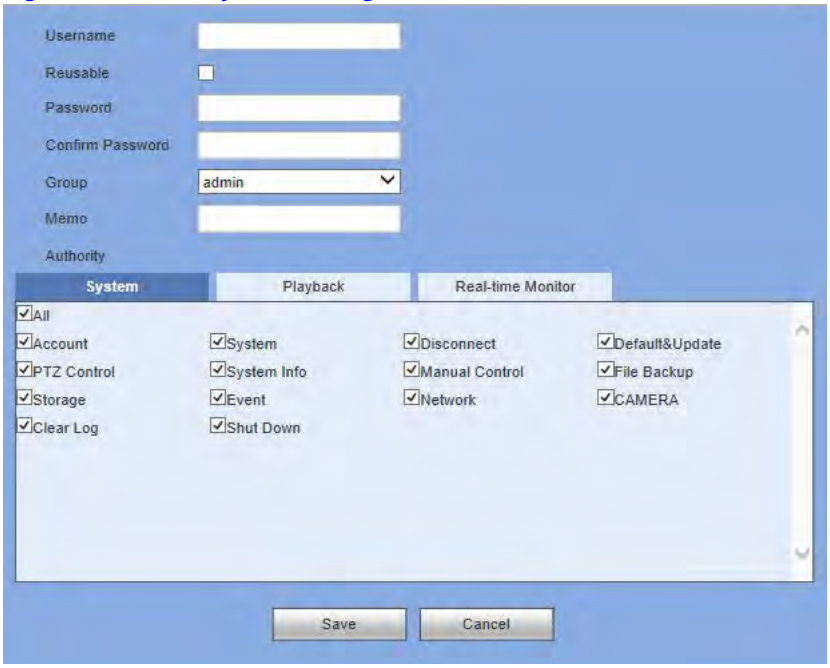


2. Enter a **Username** and a **Password**. Re-enter the Password to confirm it.
3. Select a **Group**.
4. Select **System**, **Playback**, and **Real-Time Monitor** privileges.
5. Click **Save** to save these new settings.

Modifying a User

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

Figure 3-55 Modify User Configuration Interface



2. Change the settings, then click **Save**.

Modifying a Password

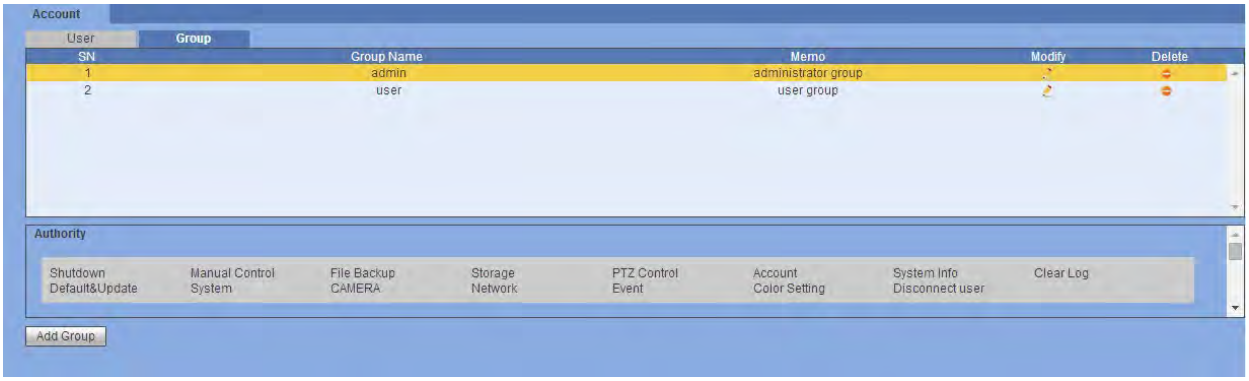
1. Click **Modify Password** in the **Modify User** configuration interface.
2. Enter the old **Password**, then enter the new **Password** twice.
3. Click **OK** to save the new password.

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.

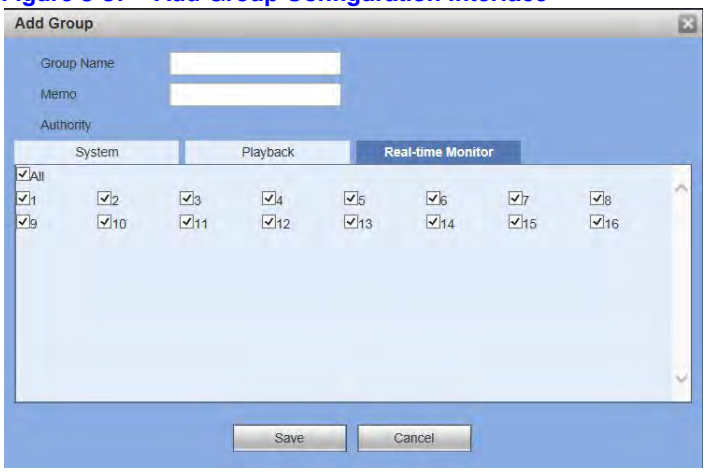
Figure 3-56 Group Configuration Interface



Adding a Group

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

Figure 3-57 Add Group Configuration Interface

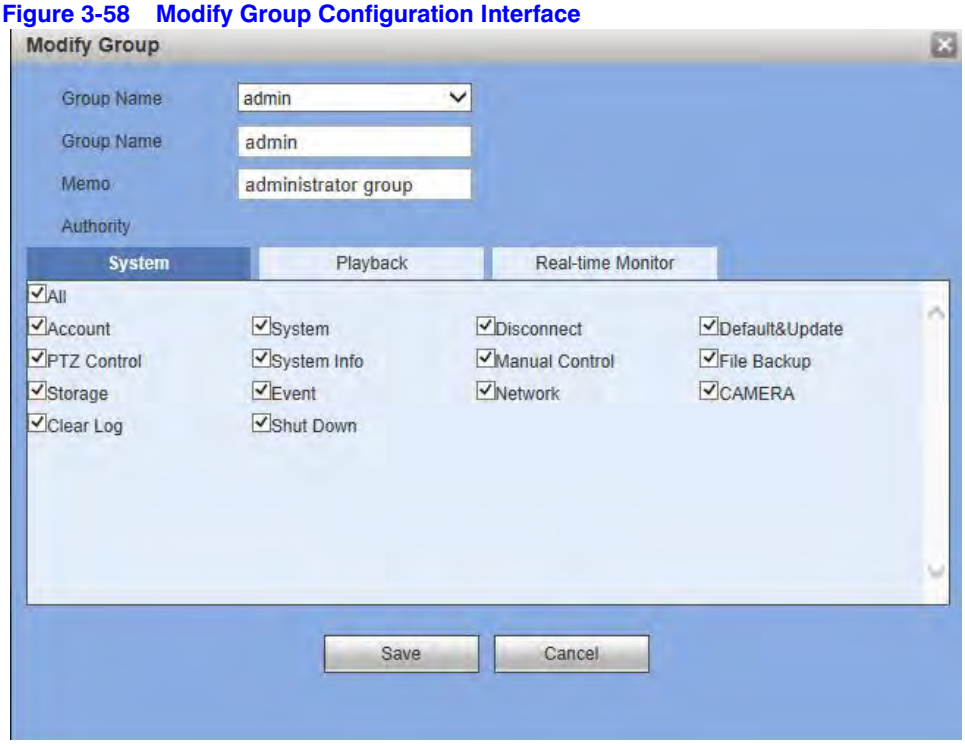


2. Enter a **Group** name.
3. Select **System**, **Playback**, and **Real-time Monitor** privileges.
4. Click **Save** to save these new settings.

Modifying a Group

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

Figure 3-58 Modify Group Configuration Interface

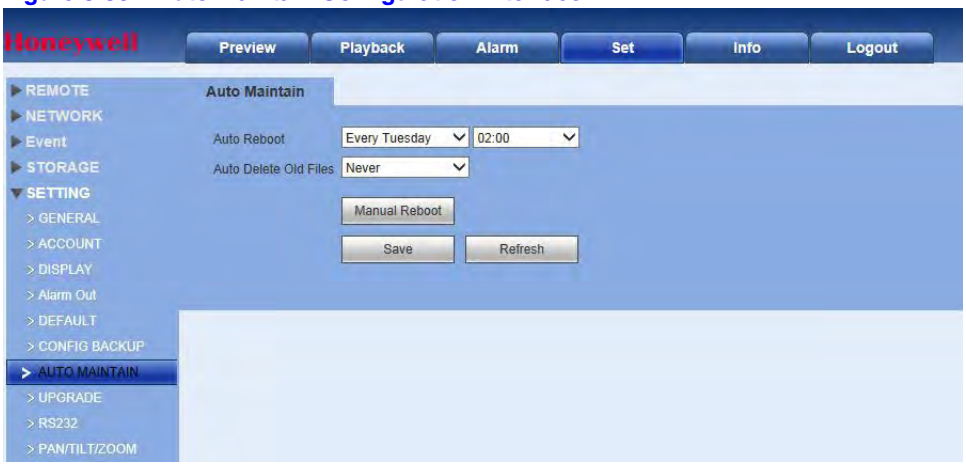


2. Modify the **Group** privileges, then click **Save** to save the changes.

Automatic Maintenance

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

Figure 3-59 Auto Maintain Configuration Interface



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

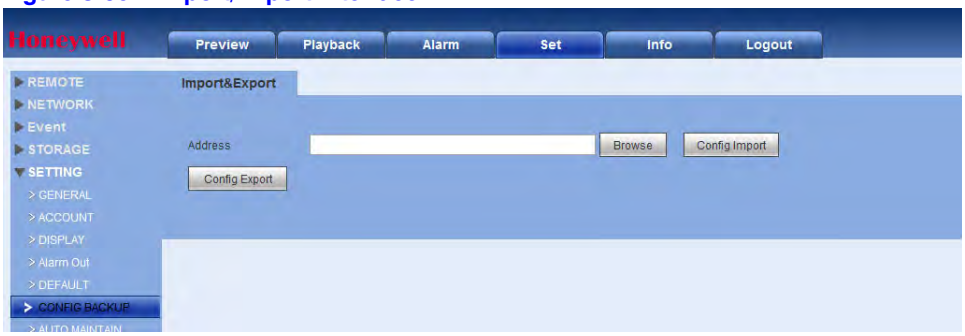


Table 3-26 Import/Export Operations

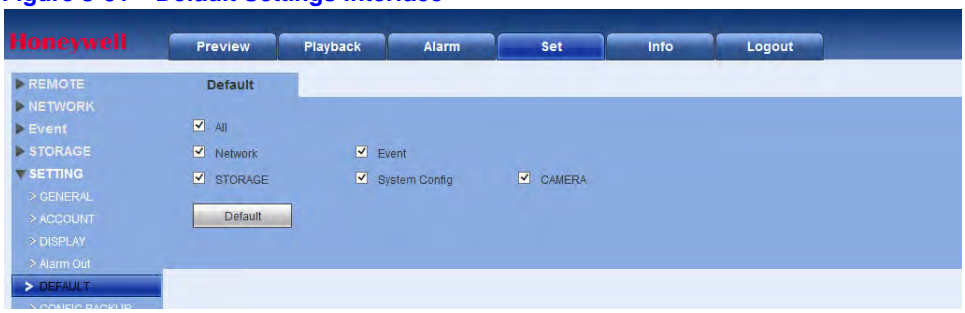
Activity	Description
Import	Use to import local setup files to the NVR system.
Export	Use to export the corresponding WEB setup to your local PC.

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

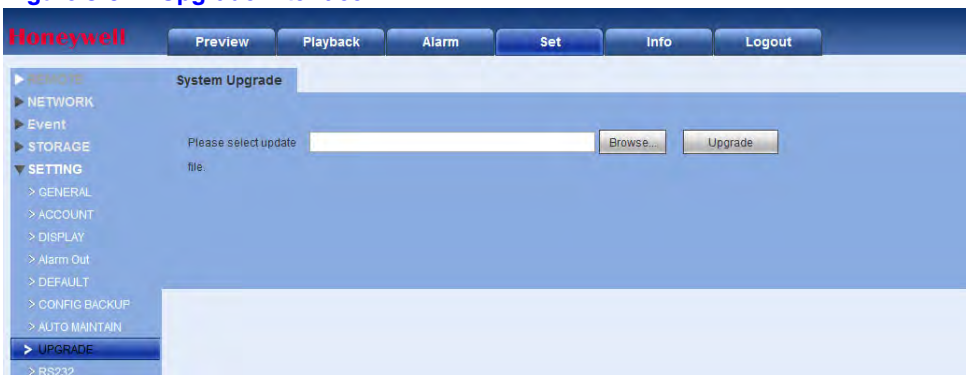


2. Click to select, or select **All**, then click **Default**.

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.**

4

Playback

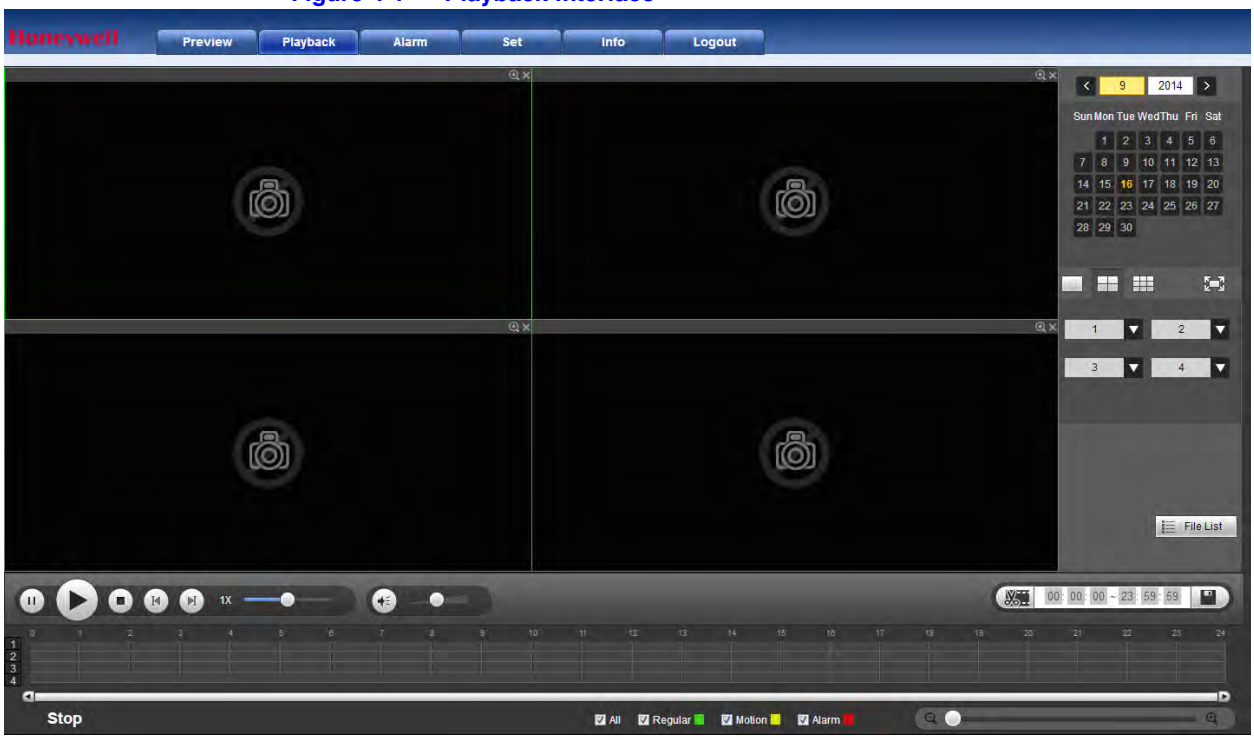
This chapter includes descriptions of the following:

- Playing back recorded video
- Downloading recorded video

Playback

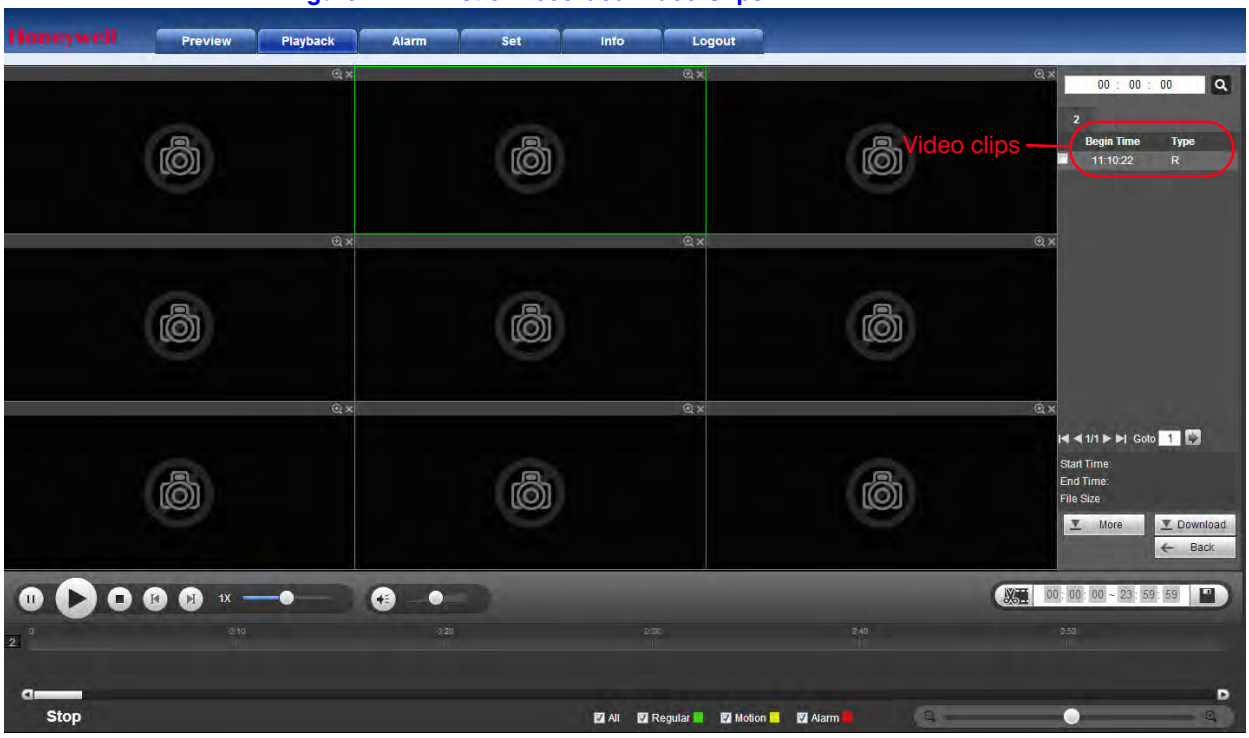
1. Click the **Playback** tab at the top of the **Main** window.
   The **Playback** interface appears.

Figure 4-1 Playback Interface



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.

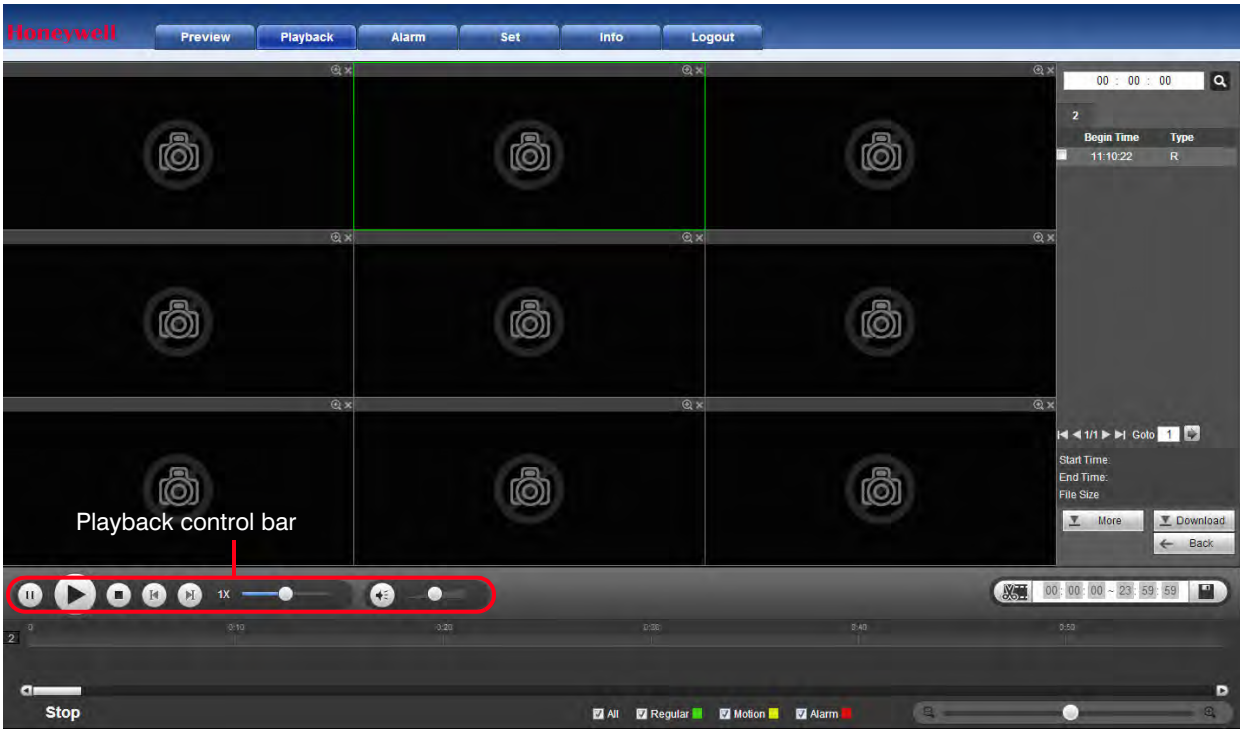
Figure 4-2 List of Recorded Video Clips



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**.

Figure 4-4 Downloading Recorded Video

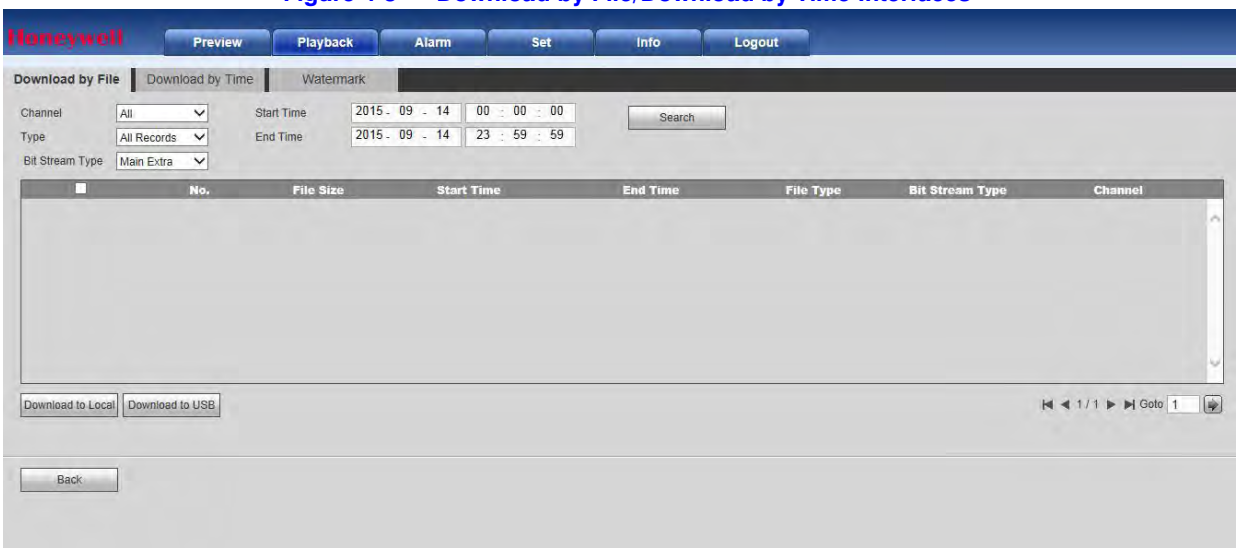
The **Download** button becomes the **Stop** button, and it indicates the downloading progress (in a percentage).

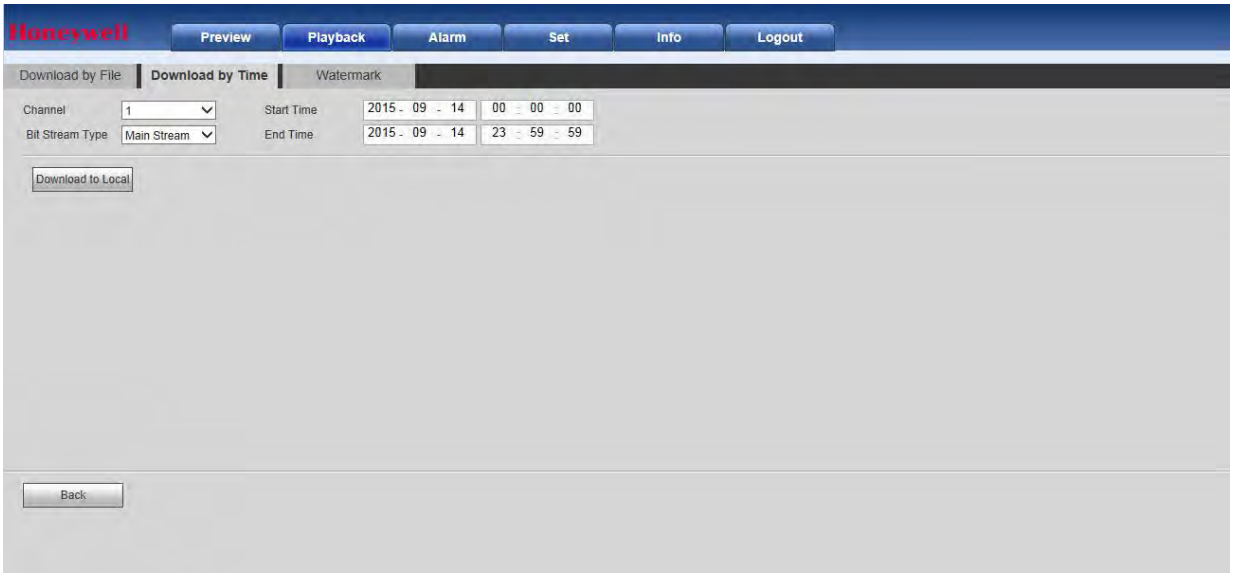
Go to your default **Saved Path** file to view the downloaded files. See *Configuring the Save Path on page 39*.

Loading More

Click **More** in Fig 13-94, and the **Download by File**/**Download by Time** interfaces appear.

Figure 4-5 Download by File/Download by Time Interfaces





In this window, you can search for recordings or snapshots. Select the channel, recording type, and the recording time.

5

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.

Figure 5-1 Alarm Configuration Interface

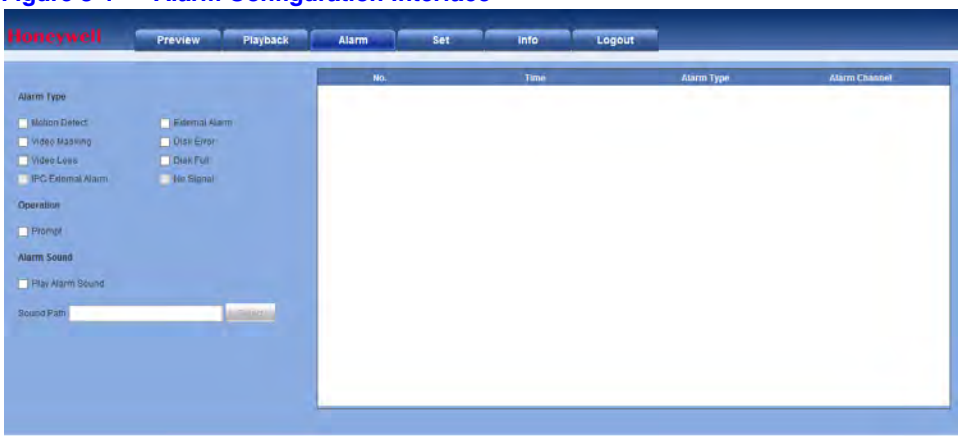


Table 5-1 Alarm Configurations

Configuration Type	Configuration	Description
Alarm Type	**Motion Detect**	Click to enable **Motion Detection**. The system will then trigger an alarm when motion is detected under the specified circumstances.
	Video Masking	Click to enable **Video Masking**. The system triggers an alarm when camera masking occurs.
	Video Loss	Click to enable **Video Loss**. The system then an alarm when video loss occurs.
	IPC External Alarm	Click to enable the camera's **External Alarm**, the On/Off signal from the network camera. It activates the NVR to locally activate.
	External Alarm	An alarm that is connected to the NVR, such as an infrared detector.
	Disk Error	Click to enable the **Disk Error** alarm. The system triggers an alarm when a disk error occurs.
	Disk Full	Click to enable the **Disk Full** alarm. The system triggers an alarm when the disk is full.
	No Signal	Click to enable the **No Signal** alarm. The system triggers an alarm when the network camera and the NVR are disconnected.
Operation	**Prompt**	Click to enable the **Prompt**. Then the system automatically pops up an alarm icon on the **Alarm** button on the **Main** interface when there is an alarm.
Alarm Sound	**Play Alarm Sound**	Click to enable the **Alarm Sound**. Then the system triggers an alarm sound when an alarm occurs. You can choose the sound.
	Sound Path	Select the sound file.

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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