

NVR-0104

4CH Network Video Recorder

User's Manual v1.5



Table of Contents

Copyrights & Trademarks	3
System Requirements	4
Product Description	5
Hardware Illustration	6
Hard Drive Installation	7
Connect to the NVR	8
1. Live View	12
1.1 Retrieve camera's video stream	13
1.2 Retrieve camera's status	13
1.3 Perform Sequence Viewing	14
1.4 PTZ Control	15
1.5 Perform PTZ Preset Viewing	16
1.6 Live Video Control Buttons	18
1.7 Change Web UI Display Language	21
2. Playback	22
2.1 Methods to Search Playback Videos	23
2.2 Export Playback Videos to AVI Files	29
2.3 Play Exported AVI Videos With NVR Media Player	31
2.4 Open Event Snapshot Images with NVR Media Player	32
3. System Setup	33
3.1 System Configurations	33
3.1.1 Network Settings	33
3.1.2 Time and Date	35
3.1.3 User Account	36
3.1.4 Group Privilege	37
3.1.5 Disk Setup	39
3.2 Channel Configurations	40
3.2.1 Add a Camera	40
3.2.2 OSD Settings	43
3.2.3 PTZ Preset Settings	44
3.2.4 PTZ Preset Sequence	46
3.2.5 E-Map Setting	47
3.2.5.1 Local Map Setting	49
3.2.5.2 Google Map Setting	50
3.3 Event Configurations	51
3.3.1 General Settings	51
3.3.2 Event Servers	53
3.3.3 Event Triggers	57
3.4 Recording Configurations	59
3.4.1 General Settings	59
3.4.2 Schedule Recording	61
3.5 System Options	63
3.5.1 Device Information	63
3.5.2 Logs and Reports	64
3.5.3 Maintenance	64
Reboot the NVR	65
Reset the NVR to Factory Default	66
3.5.4 Disk Status	67

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Any risk arising from the use of this information rests with the recipient, and nothing herein should be construed as constituting any kind of warranty.

The manufacturer reserves the right to make adjustments without prior notification.

All names of people and organizations used in this document's examples are fictitious. Any resemblance to any actual organization or person, living or dead, is purely coincidental and unintended.

System Requirements

The following are minimum system requirements for the system to operate Embedded Network Video Recorder (ENVR):

Operating System

Microsoft® Windows® 2000 Professional, Windows® XP Professional (32 bit) or Windows® Server 2003 (32 bit)

Browser

Microsoft Internet Explorer 6 or above

CPU

Minimum Intel® Pentium® 4 2.4 GHz or higher (Dual Core is recommended)

RAM

Minimum 1 GB of RAM, 2GB or above is recommended

Network

Minimum 10/100 Ethernet (Gigabit Ethernet is recommended)

Graphics Adapter

AGP or PCI-Express, minimum 1024×768, 16 bit colors.

(We highly recommend to work above the 1024 x 768 resolution to get the full experience of the software)

- ***Make sure your display DPI setting is set to default at 96DPI***
- ***To set DPI value, right-click on desktop, choose "Settings" tab >> "Advanced" >> "General"***

Contents Inside the Installation CD

- Adobe Acrobat Reader
- NVR Search Utility
- NVR Media Player
- User's Manual
- Quick installation Guide
- Datasheet

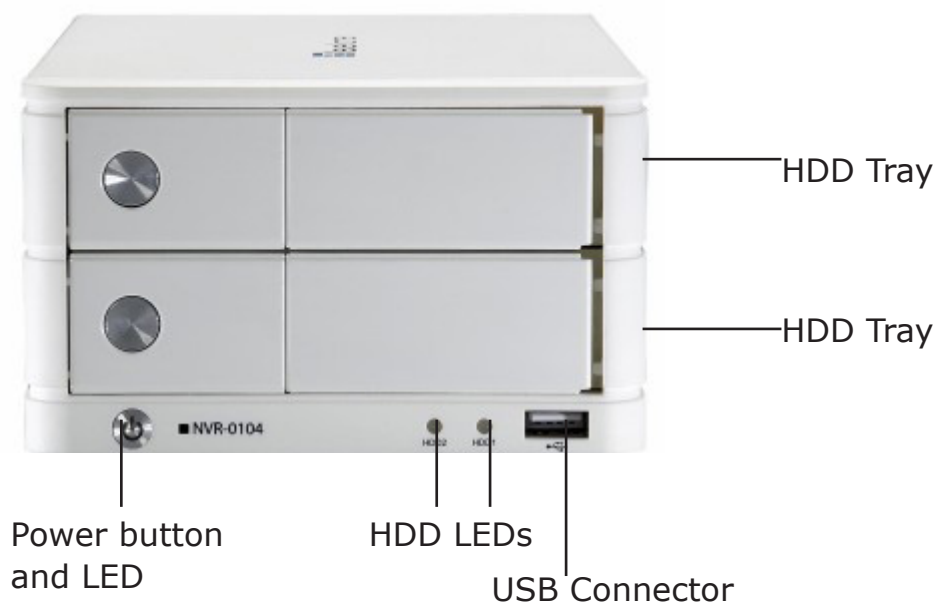
Product Description

The NVR-0104 is designed for use within a surveillance system, and performs recordings and playbacks pictures from network cameras in the system. It is designed for small scale applications such as retail store. Up to 4 cameras can be connected via a network and it is possible to record their camera pictures. It is possible to perform the settings or operate the NVR using a web browser installed on a PC connected to a network and live videos can be viewed on major mobile devices through its web browser. Recorded video can be played back from remote site by a PC. NVR-0104 is compatible with most major brand cameras and its ability to automatically search and find the available cameras on the network can greatly reduce the user's effort when configuring the system.

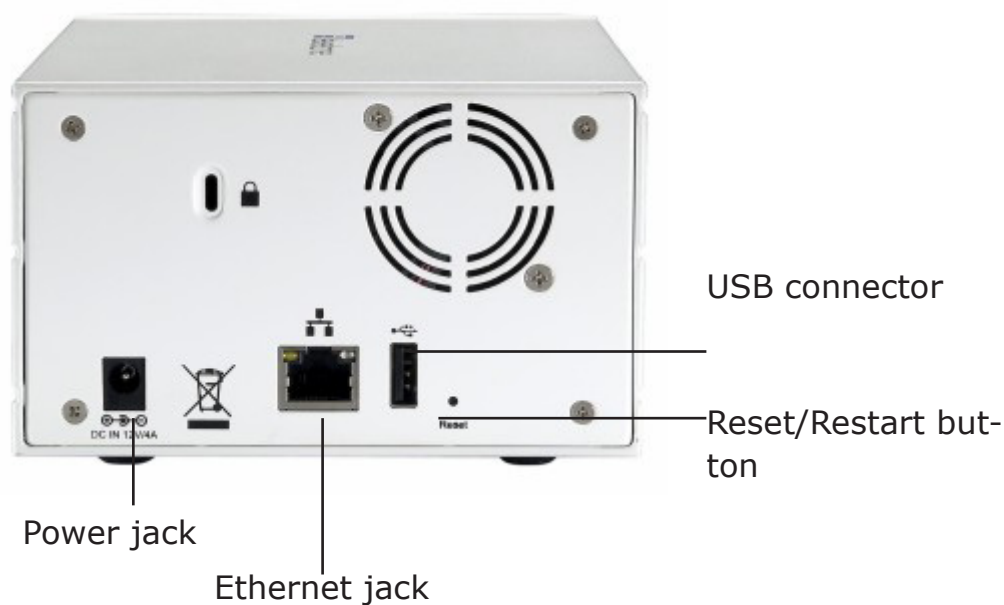
- **Manage up to 4 Network Cameras**
- **Compatible with Major Brand Cameras**
- **High Quality Live/Playback Video**
- **Export Playback Videos to AVI**
 - **Two-way Audio**
 - **Smart Camera Search**
 - **Mobile Devices Remote Monitoring**
 - **Pure Web Based Administration**

Hardware Illustration

(Front)



(Rear)



Hard Drive Installations

1. Push the silver button to release the HDD tray



2. Pull out the HDD tray



3. Place the HDD on the tray and secure the HDD with the screws at the bottom (as illustrated)



4. Push the tray back in the unit and press down the black bar to secure the tray



Connect to the NVR

There are various ways you can connect to the NVR and below are the suggested methods for different network setup:

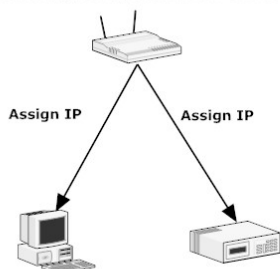
- The NVR is placed in a network with a DHCP server: Connect to the NVR by using **"NVR Search" Utility**
- The NVR is placed in a network without DHCP server (or you are connecting to it directly): **Access NVR with its default IP**

Use NVR Search Utility

If the NVR is placed in a corporate network or a local area network where a DHCP server is already presented, install the "NVR Search" utility on the CD from a computer that is on the same network and locate the NVR with its IP address that is assigned by the top-level DHCP server.

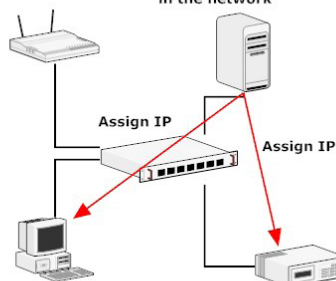
1.

Network gateway as the DHCP server

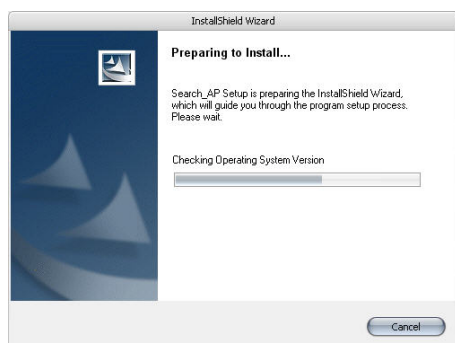


2.

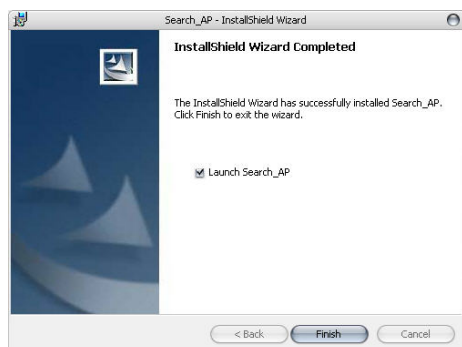
A separate DHCP server in the network



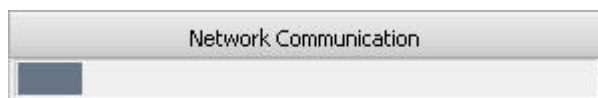
To begin, launch the "NVR Search" utility from the CD and proceed with the installation:



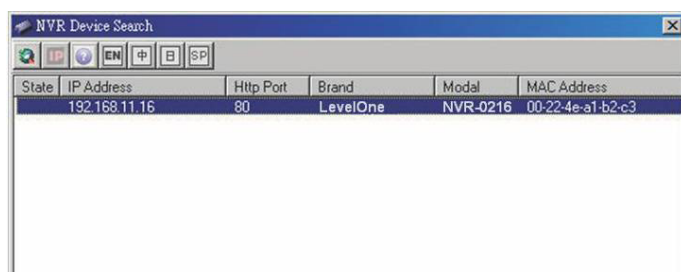
Once the installation is complete, check the "Launch the Search AP" option and click "Finish":



The search should start automatically and its status should be displayed:



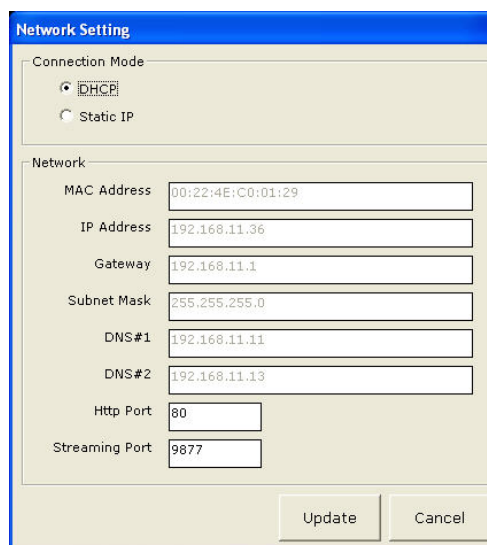
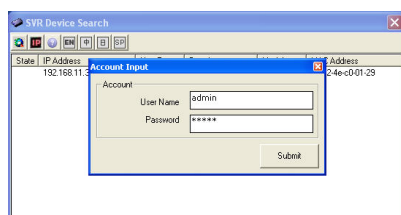
The NVR should be located and its IP address should be displayed: Double-click on it and the program should automatically access the NVR's web administration page from your default browser



You may change NVR's IP address by click on the button highlighted below.



You will be prompted for the NVR's login information before proceeding to change device's IP address.



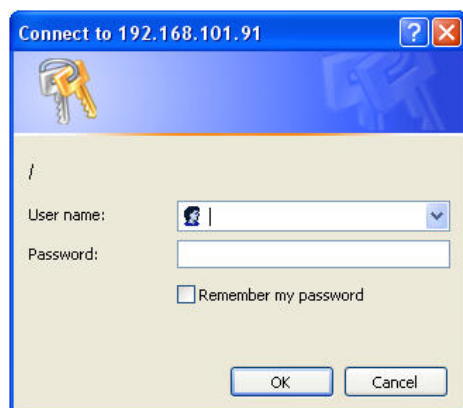
You may click on the button highlighted below to perform search again. Or double-click on any of the search results to access NVR's web administration page



perform search again

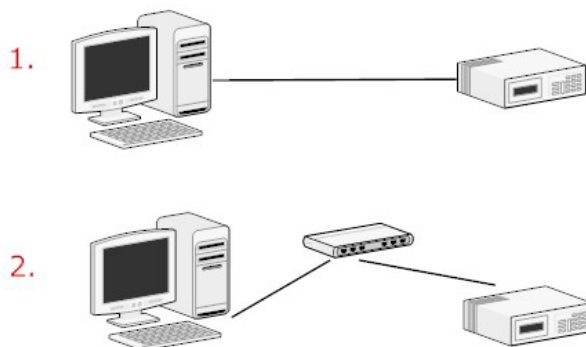
access NVR's web administration page

You should be prompted for the NVR's username and password. Enter its default username "**root**" and password "**root**" and then click "OK" to enter the system

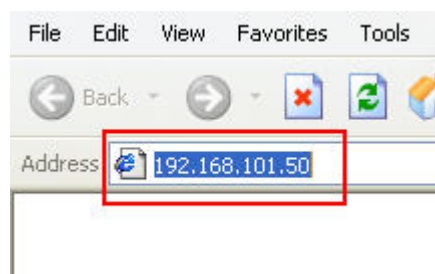


Access NVR with its default IP address

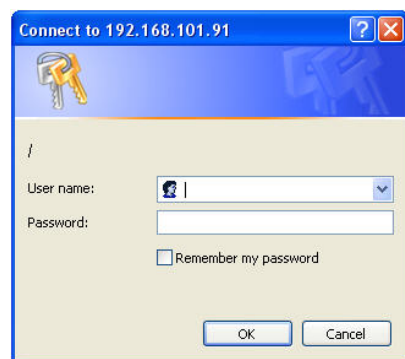
The NVR comes with a pre-configured static IP "**192.168.101.50**". However, it is only used when there is no DHCP server presented in the network. The NVR will turn on its DHCP server function and act as the DHCP server in the network. To connect to the NVR, use a PC that is on the same network over a switch or hub, or connect the PC directly to the NVR using a crossover CAT5 Ethernet cable.



The PC that is connected directly to the NVR (or within the same local area network) should receive an IP from it. Simply access the NVR from your web browser with its IP address



Again, you should be prompted for the username and password. Enter its default username "**root**" and password "**root**" and then click "OK" to enter the system



1. Live View

NVR-0104



The "Live View" page provides the following functions:

- Retrieve camera's video stream
- Retrieve camera's status
- Perform Live Sequence Viewing
- PTZ Control
- Perform PTZ Preset Sequence viewing
- Perform manual recording
- Take snapshot
- Receive audio of a video stream
- Send audio
- Change web UI display language

1.1 Retrieve camera's video stream



The camera list is expanded and displayed on the Live View page.

- Click "All" to display videos in the quad-video mode
- Click on any camera to display video in single-view mode

1.2 Retrieve camera's status

The camera list can show each camera's current status. Each status is represented with different colors and their meanings are explained on the left

 Camera is connected

 Camera is NOT connected

 Camera is current performing recording

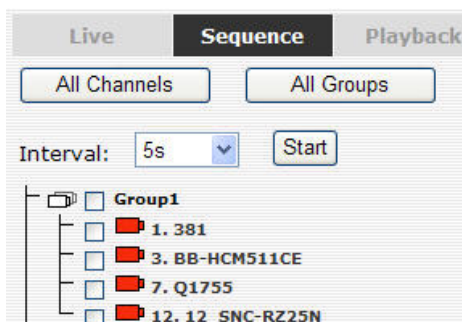
1.3 Perform Sequence Viewing

Sequence view is a function that allows you to view multiple video streams from certain cameras in sequence automatically without having to select them one by one.

To perform sequence view, select "SEQ View" from the upper-left hand corner



Next, select one or more camera(s) or camera group(s) for sequence viewing



Then select dwell interval from the drop-down menu



Finally click "Start" to start sequence viewing

** Click "All Channels" to quickly select all available channels and start sequence view in single-view mode.*

1.4 PTZ Control

PTZ control provides functions to pan, tilt, zoom a PTZ camera as well as the ability to adjust camera focus and iris



Camera(s) that are currently being selected for live viewing will be listed in the PTZ drop-down menu. Simply select a camera then use the PTZ control panel to control the camera



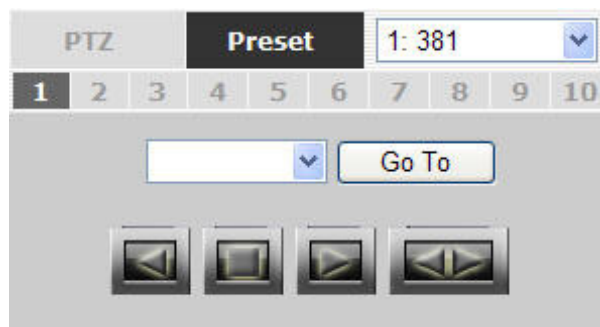
The bar shown below allows you to control the pan/tilt speed



1.5 Perform PTZ Preset Viewing

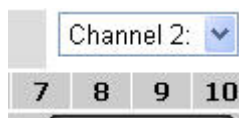
There are three functions provided in the "Preset" section:

- Perform preset point viewing of a particular camera
- Auto pan a particular camera
- Perform preset point sequence viewing

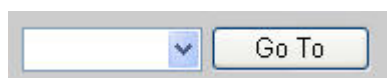


Preset Point Viewing

Start by selecting a PTZ camera from the drop-down list:



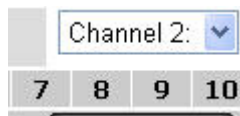
Its available PTZ preset points will be listed in the drop-down list shown below:



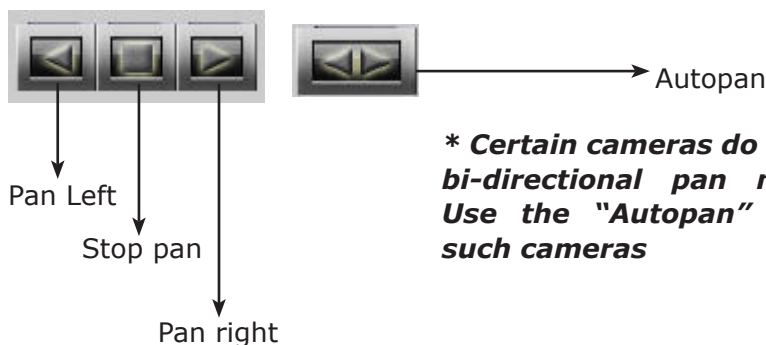
Select a preset position from the drop-down list and click "Go to" to move the live view to that position

Auto Pan Viewing

Start by selecting a PTZ camera from the drop-down list:

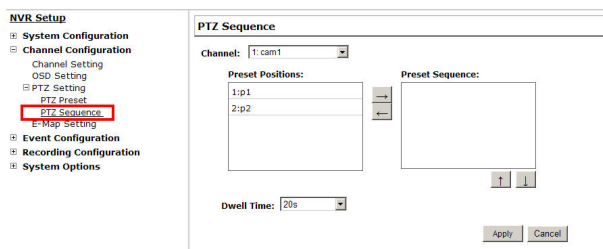


Use the Auto Pan control buttons to pan right, left and stop auto pan



Preset Point Sequence Viewing

This function allows you to view multiple preset points from a video of a camera without having to select them one by one. Once you have defined the preferred preset points in "**Channel Configurations**" >> "**PTZ Setting**" >> "**PTZ Sequence**" under the "**Setup**" menu, click "Start" in the lower-left hand corner in Live View under "Preset" and the recorder will begin to display videos from those preset points in sequence automatically until you click "Stop"



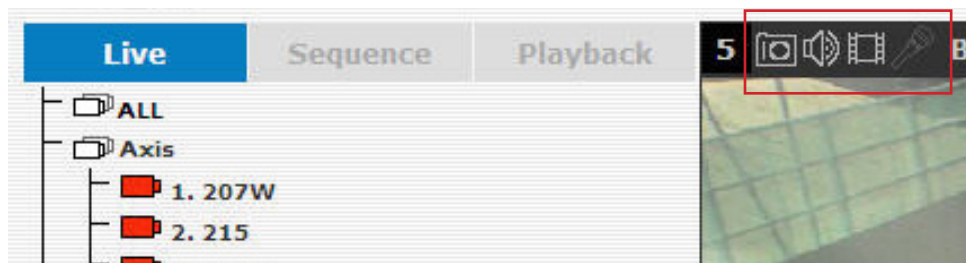
"In the Setup page"







In the Live View



1.6 Live Video Control Buttons

Each live video window comes with control buttons with functions described below:




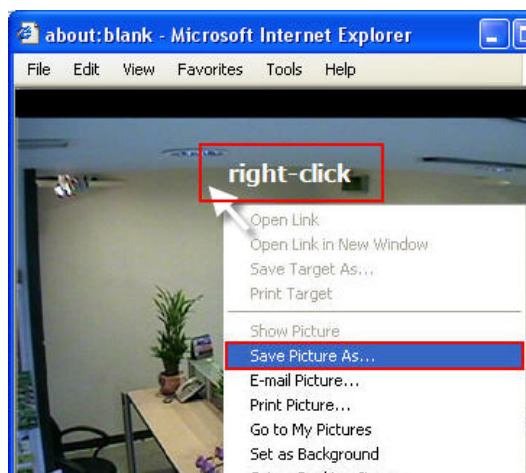
-  Take a snapshot of a live video
-  Turn on/off audio of a live video
-  Start/stop recording of a live video (manual recording)
-  Audio post function



-  Full screen view of a live video
-  Display video in its original ratio

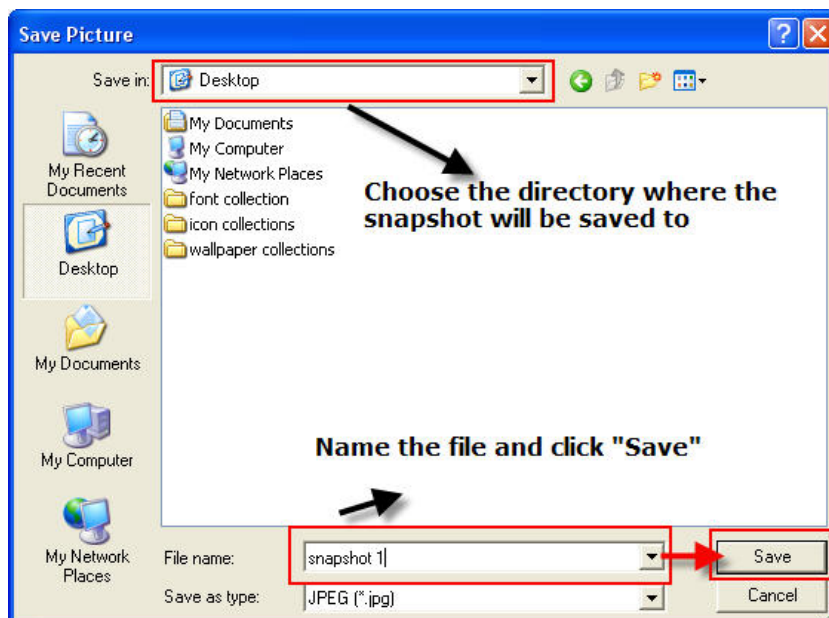
Take a snapshot of a live video

To take a snapshot of a live video, click the  button and the snapshot of the video will be displayed in a pop up window shown like below




Right-click anywhere on the image and select "Save Image as" from the pull-down menu


In the pop up dialog, name the image file and choose which directory the image will be saved to and click "Save"




Full Screen View of a Live Video


To view a video in full screen, click the  button. To exit full screen video, double-click anywhere on the video.


Turn On/Off Audio of a Live Video

You can retrieve audio from a particular camera. Simply click the  button to do so.

The button will show in different color once the audio is turned on.  Click on it again to turn off audio.

Start/Stop Recording of a Live Video

You can manually start or stop recording of a live video by using the  button.

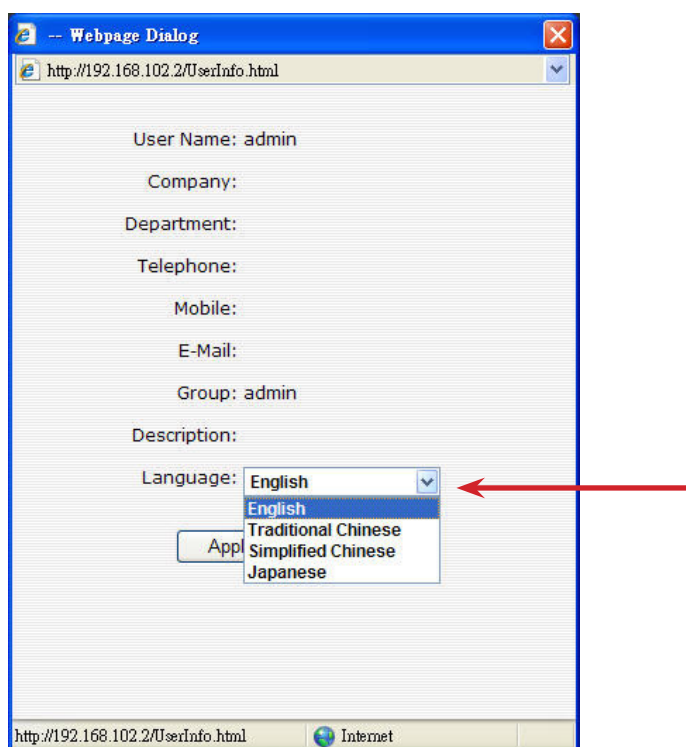
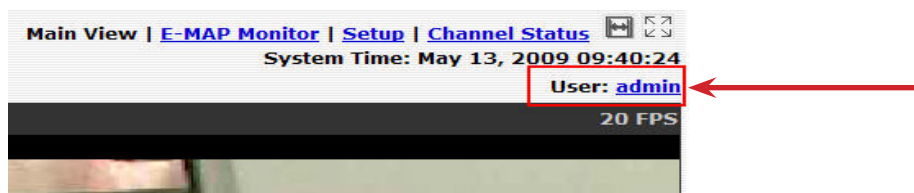
The button will show in different color once the recording is started manually.  Click on it again to stop recording.

Audio post

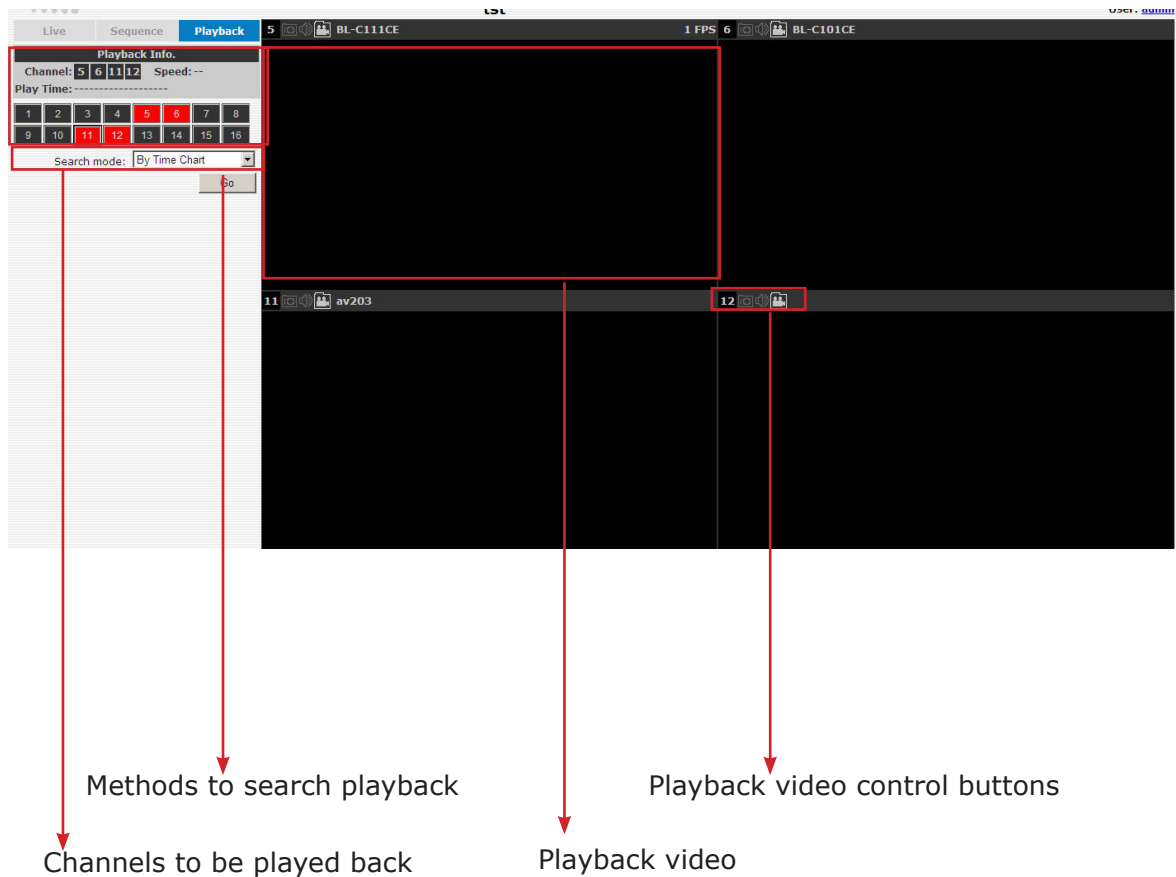
This function allows user to speak from a PC through a microphone and the audio can be played at the camera side if it has a speaker connected to it.

1.7 Change Web UI Display Language

You can change the web UI display language from the current login username link located at the upper-right hand corner. Click on the link opens up a new window which displays detail information about the user as well as a drop-down menu which lets you change the display language.



2. Playback



Playback is a function that allows you to play one or more videos that were previously recorded by a chosen recording method or due to an event trigger. The NVR offers synchronized playback from up to 4 channels and various types of search methods are provided to help you find the footage you need quickly.

You can turn on or off the audio of a recorded video at your choice if audio was also recorded during the recording of the video.

Playback video can be viewed in full screen and snapshots can be taken and saved during a video playback.

2.1 Methods to Search Playback Videos

The NVR offers three methods to quickly help users find videos that were previously recorded:

- Search by time: *Specify a time range and search videos recorded within that range*
- Search by event: *Find videos that were recorded due to event triggers*
- Play by start time: *Enter a specific time a video was recorded to start playing back the video*

Search by time chart

- Start by selecting which channel(s) you would like to perform a search on:

The screenshot shows a window titled "Playback Info." with the following fields and controls:

- Channel:** A text field.
- Speed:** A text field with the value "---".
- Play Time:** A text field with the value "---".
- A grid of 16 buttons numbered 1 to 16, arranged in two rows of eight.
- Search mode:** A dropdown menu currently set to "By Time Chart".
- Go:** A button to initiate the search.

* Selected channels will be marked in red

This screenshot shows the same "Playback Info." window, but with the following changes:

- The **Channel** field now contains the numbers 4, 6, 13, and 14.
- The buttons for channels 4, 6, 13, and 14 in the grid are highlighted in red.
- The **Search mode** dropdown remains set to "By Time Chart".

- Select "Search by time chart" from the "Search Method" drop-down list and click "Go" to start the search:

This screenshot shows the "Playback Info." window with the following state:

- The **Search mode** dropdown is set to "By Time Chart".
- The **Go** button is visible.

4 Channel Network Video Recorder

- Results will then be displayed in a "Date/Channel" table and boxes marked in blue represent videos found in those dates:

Date:

CH1	Ch2	CH3	CH4	
				1
				2
				3
				4
				5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				16
				17
				18
				19
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				25
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				27
				28
				29
				30
				31

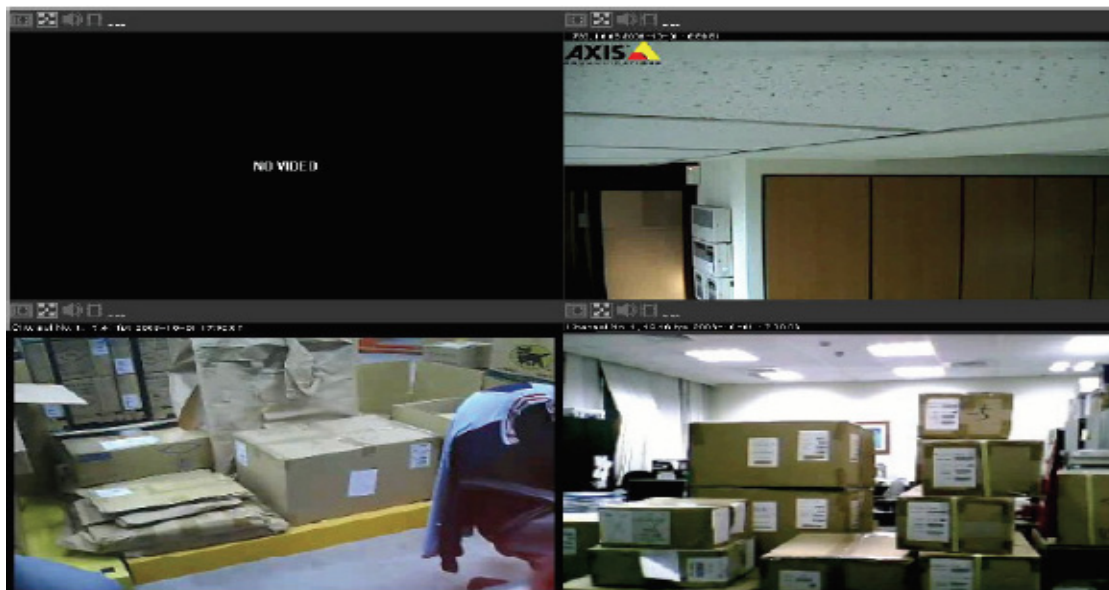
- Click on any blue cell box should direct you to the hour/channel table if there were multiple videos recorded during that date:

CH1	Ch2	CH3	CH4	
				1
				2
				3
				4
				5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				16
				17
				18
				19
				20
				21
				22
				23
				24

* Videos from other cameras that are recorded on the same date will also be displayed

4 Channel Network Video Recorder

- Click on the cell box again will start playing back the videos if you have reached the end of search results:



- Videos found from other cameras that were recorded at the same time will also be played.

Search by event

- Start by selecting which channel(s) you would like to perform a search on:



* Selected channels will be marked in red

Live		Sequence		Playback	
Playback Info.					
Channel:		3	5	6	13
Speed:		---			
Play Time:		---			
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18

- Select "Search by event" from the "Search Method" drop-down list and click "Go" to start the search:
- Results will then be listed like what is shown below (displays the oldest record top down). Click on a particular result to start the playback:



* You can click "Next Search" to display the next 15 results.

- You may also specify a new start time to search and display results from then on. You can restrict the number of results to be displayed at once (max. 30) and perform the search again

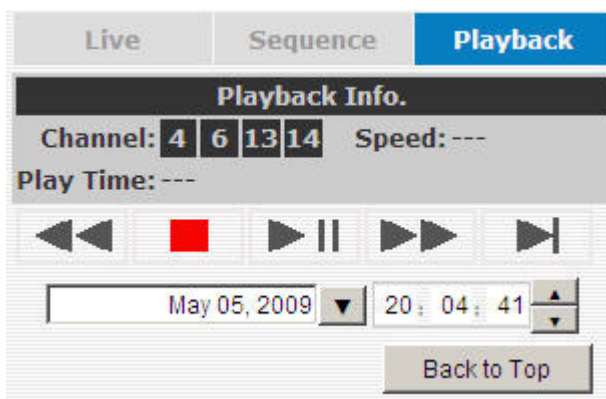


Play by specific time

If you know when a recording was taken place, you may choose the "Play by start time" from the "Search Method" drop-down list



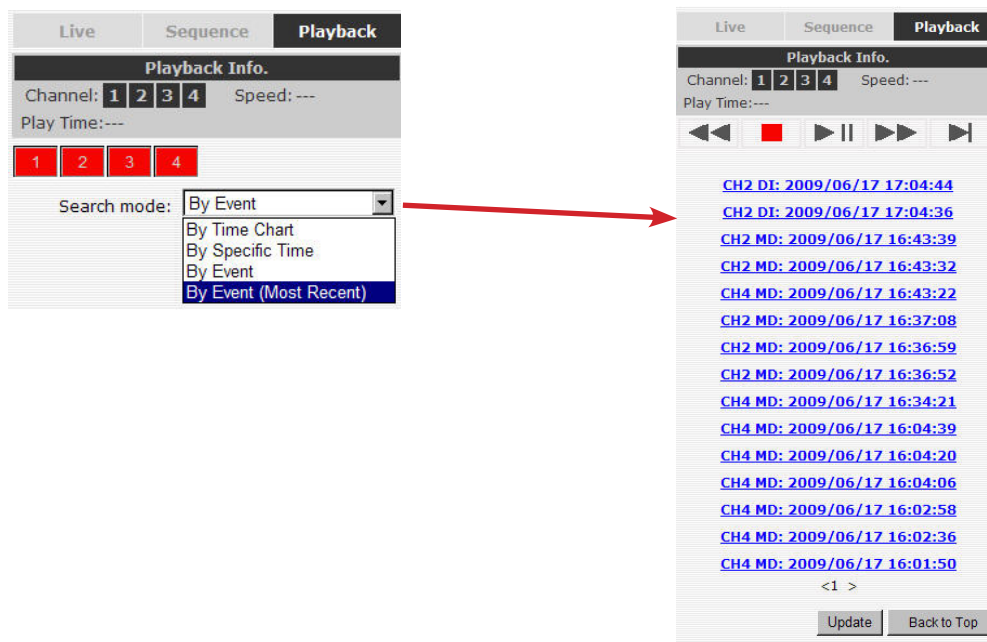
Then you will be prompted to enter a specific time and date for the recorded video.



Use the  button to select month, date, and year

Search by event (Most Recent)

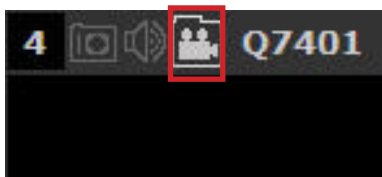
This function quickly displays the most recent event recordings from the selected channels, displaying the most recent result top down. You may click "Update" to update the list to display the most recent result



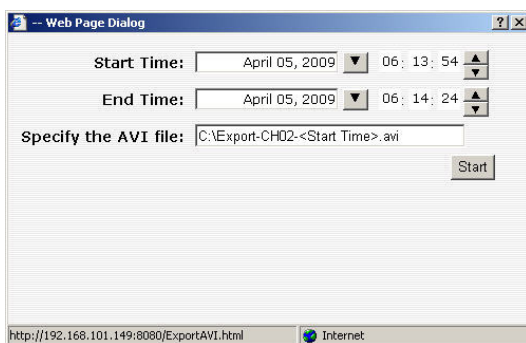
2.2 Export Playback Videos to AVI Files


User can export the recorded playback videos stored on the NVR to a local computer and save them in AVI file format. The files can then be played on the PC by a 3rd party media player such as VLC player or Windows Media player.

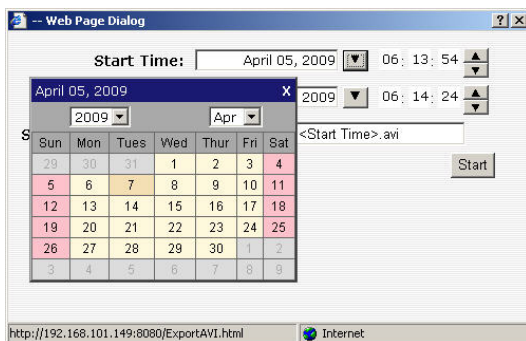
Once you locate the recorded videos with steps described in the previous section, hit the "Export AVI" button on a video window of the video you wish to export.



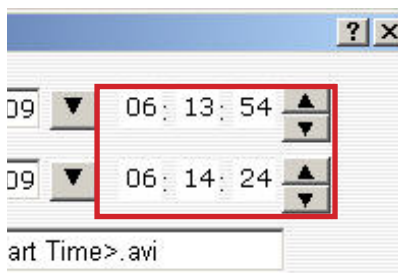
A new dialog will pop up and allows you to specify the time frame (or length) of the video you wish to export



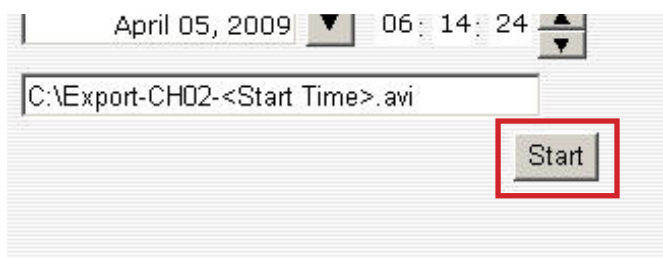
Click the  button to pull down the calendar to help you specify the month, date and the year



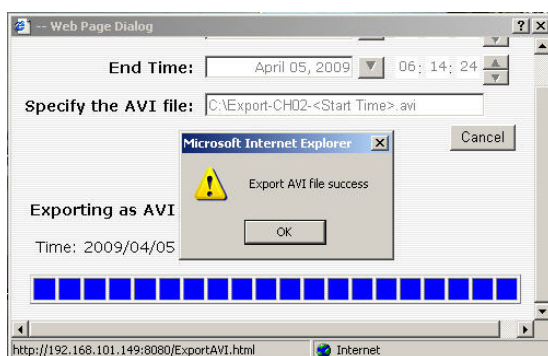
Specify the starting and ending hours of the video by entering numbers in the text boxes



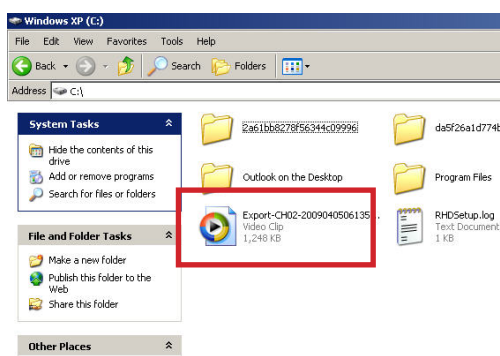
Hit the "Start" button to start exporting. The file will be automatically named and saved under the C:\ partition



You will be notified once the process is completed successfully



The exported AVI file will be saved under the C partition

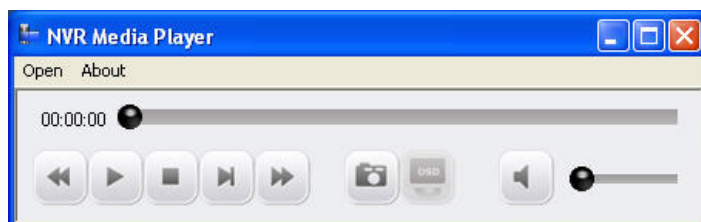


** ffdshow is required in order to play the exported AVI file with Windows Media Player. You can get it at "<http://sourceforge.net/projects/ffdshow-tryout/>" to download the "ffdshow_beta6_rev2527_20081219.exe"*

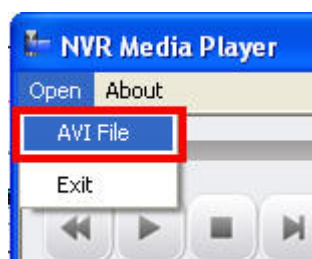
2.3 Play Export Playback Videos with NVR Media Player

You can also use the NVR Media Player that is available on the CD to play the exported AVI files. This can save you the trouble of installing third-party media player or codecs when playing the exported AVI videos.

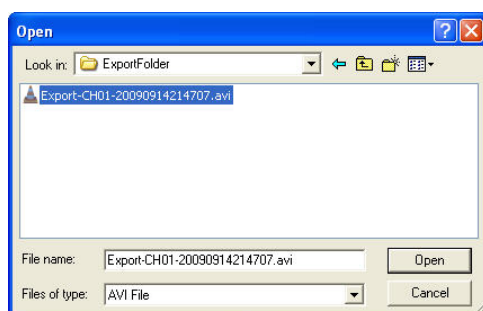
Run the NVR Media Player on the CD:



Click "Open" >> "AVI File"

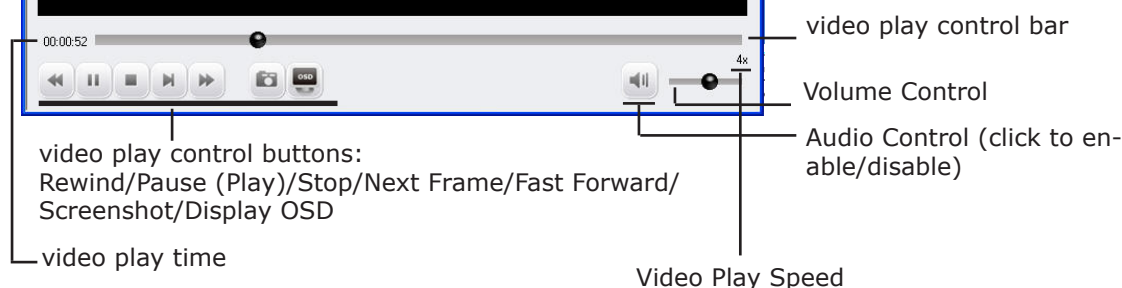
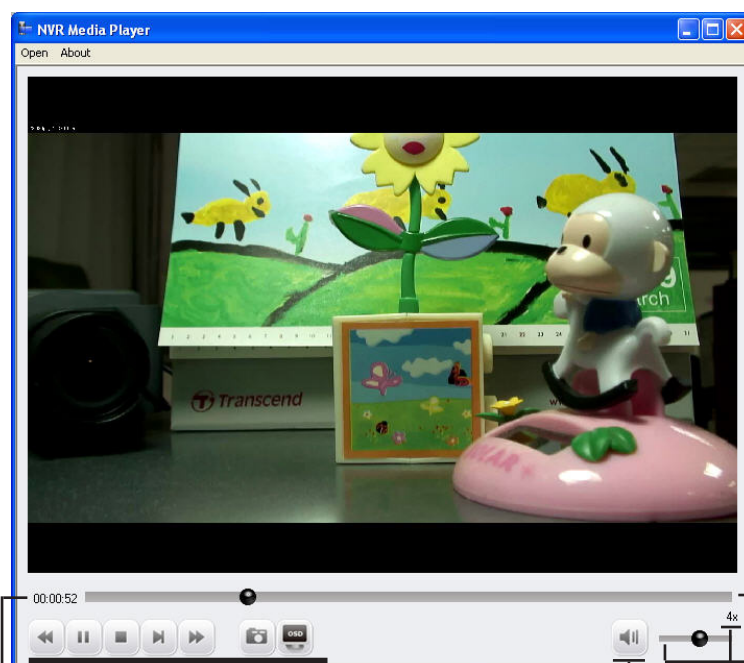


Locate the exported AVI file, and click "open". (normally under "C:\ExportFolder")



The video will then start playing

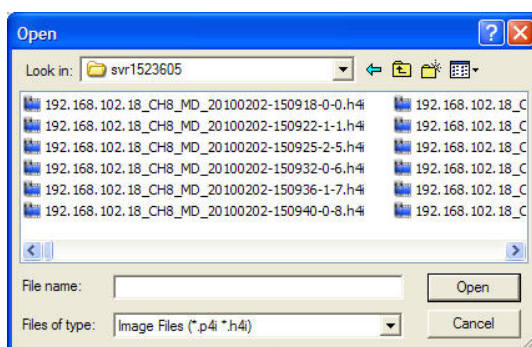
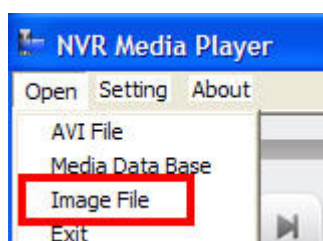




2.4 Open Event Snapshot images with NVR Media Player

The NVR sends snapshots that are taken when an event occurs to a destined FTP server or mail recipient. These type of snapshot images are saved in a proprietary image file format, h4i or p4i, and can only be opened by the NVR media player.

To do so, Select "Open" from the top menu then select "Image File". A new dialog should be displayed which lets you locate the image file.



3. System Setup

3.1 System Configurations

The "System Configurations" page provides users options to setup the device quickly and properly. After properly configuring all settings in all the sub-pages, users should expect a fully working network video recorder that is ready to manage cameras on the network. We will start by configuring its network settings to make sure it works correctly in your network. Next, we will help you adjust the system time so videos will be recorder with correct timestamp. To better secure the system for unwanted disturbance, we will guide you on setting up user's account and privileges to prevent settings gets altered by users other than the system administrator. Lastly, we will tell you what you should expect after installing a hard disk and how to prepare the hard disk for the video recording.


3.1.1 Network Settings

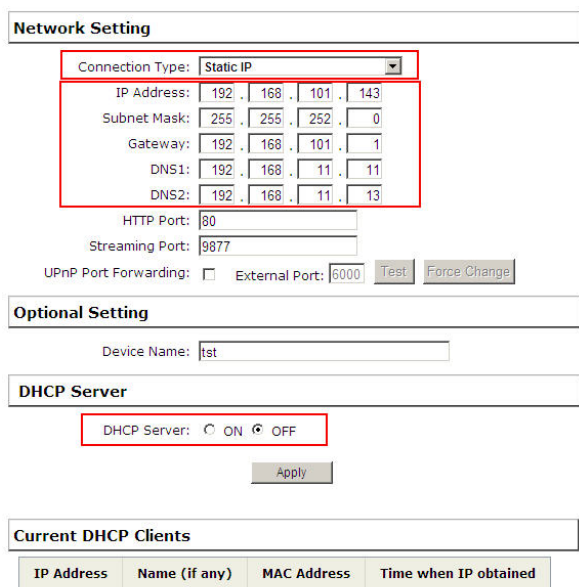
The screenshot shows the 'Setup' menu on the left with 'System Configuration' expanded. The 'Network Setting' page is displayed on the right. It includes fields for Connection Type (DHCP), IP Address (192.168.102.2), Subnet Mask (255.255.252.0), Gateway (192.168.101.1), DNS1 (192.168.11.11), DNS2 (192.168.11.13), HTTP Port (80), and Streaming Port (9877). There is a checkbox for UPnP Port Forwarding and an External Port field set to 8000. An 'Optional Setting' section contains a Device Name field set to 'tst'. An 'Apply' button is at the bottom.

You need to adjust settings in this page for the device to work properly in your network. It is critical that settings here are configured correctly based on your network configurations so that the recorder can be administered through the local area network and cameras can be connected from it.

By default, the recorder is set to obtain IP address from DHCP server, it should be sufficient in most network environments, and most likely you should not need to alter anything in this page. To locate the recorder, simply use the NVR Search Utility with steps described in page 12.

If you wish to set the recorder to use a static IP address in your local area network,

1. Choose "Static IP" from the "Connection Type" drop-down menu
2. Enter the IP address, subnet mask, default gateway address and DNS server address for the recorder
3. Enable "DHCP Server" under "DHCP Server" if you wish to use the recorder as a DHCP server, or leave it disabled if there is already a DHCP server in the network 
4. Click Apply for the settings to take effect



Network Setting

Connection Type: **Static IP**

IP Address: 192 . 168 . 101 . 143
 Subnet Mask: 255 . 255 . 252 . 0
 Gateway: 192 . 168 . 101 . 1
 DNS1: 192 . 168 . 11 . 11
 DNS2: 192 . 168 . 11 . 13

HTTP Port: 80
 Streaming Port: 9877

UPnP Port Forwarding: ☐ External Port: 6000

Optional Setting

Device Name:

DHCP Server

DHCP Server: ☐ ON ☒ OFF

Current DHCP Clients

IP Address	Name (if any)	MAC Address	Time when IP obtained
------------	---------------	-------------	-----------------------



The recorder can detect the presence of a DHCP server upon startup. It sets itself to use static IP address if there is no DHCP server currently presented in the network. Its DHCP server function is also turned on at the same time to assign IP addresses to cameras that are later connected to the network

You can manually turn off the DHCP server function if you wish to use a separate DHCP server



Change the recorder's IP address would require the recorder to restart. Restart the device under "system Options" >> "Maintenance" for the settings to take effect.

3.1.2 Time and Date

The screenshot shows the 'Setup' menu on the left with 'Time and Date' selected. The main panel is titled 'Time and Date Setting'. It includes a 'Time Zone' dropdown set to 'GMT+08 (Beijing, Hong Kong, Shanghai, Taipei)' and a 'Summer time' checkbox. Two radio buttons are present: 'Manual' (selected) and 'Sync with NTP Server'. The 'Manual' section contains dropdowns for Year (2009), Month (05), date (06), Hour (10), Minute (24), and Second (29). The 'Sync with NTP Server' section contains an 'NTP Server' text field with 'ntp.ucsd.edu' and an 'Update Interval' dropdown set to '24 hr'. At the bottom, there is a 'Sync with PC' option showing 'May 06, 2009 10:24:29' and an 'Apply' button.

Set the time and date by selecting the time zone according to your location. It is imperative that you set the recorder's time correctly to avoid the following errors:

- Incorrect display time for playback videos
- Inconsistent display time of event logs and when they actually occur

After selecting the time zone, choose an option below to set the recorder time

- **Manual** – Use the drop-down list and configure the time manually
- **Sync with NTP server** – enter the hostname or IP address of a valid NTP server and set how often the recorder should synchronize the time with it by using the "Update interval" drop-down menu
- **Sync with PC** – Check this option to synchronize the recorder time with the PC that you are currently using to access the recorder

3.1.3 User Account

The recorder can be accessed by multiple users simultaneously. You can add, remove, and edit users by using options provided in this page to keep user information organized. Each recorder comes with a built-in "root" account with password "root". It's highly recommended to change the password upon your initial login.

User Name	Group	Description
admin	admin	
guest	guest	sc
joser	supervisor	eng
hunt	opera	tc
view1	VIEWER	japan

Add User

User Name: Only A-Z, a-z, 0-9 and _ are allowed

Password:

Confirm Password:

Company: (Optional)

Department: (Optional)

Telephone: (Optional)

Mobile: (Optional)

E-Mail: (Optional)

Group:

Language: (Optional)

Description:

To change the password of the "admin" account:

1. Click and highlight the "admin" account in the account list and click "Edit"
2. Its information should be displayed in "User Account Information"
3. Enter a new password in the "Password" field and enter it again in "Confirm Password"

Username: admin Group: admin Description: This is the admin account

User Account Information

Username: admin

Password: *****

Confirm Password:

Company: (optional)

Department: (optional)

To add a new user:

- Enter a username and password in "User Account Information". All other fields are optional for your own reference.
- Select a group from the "Group" drop-down menu to assign the new user to a particular group
- Enter a short description for the account if you wish
- Click "Apply" to finish configuration

3.1.4 Group Privilege

Group Privilege is where you can create multiple customized access policies for situations if you need the recorder to be accessed by users other than the administrator. You can do so by creating a group, and then remove access privileges for certain configuration pages or cameras. Users that are created and assigned to this group will have limited access instead of full administration rights.

The recorder comes with seven built-in groups and five built-in privilege profiles, except the “root” and the “guest” accounts; the other five groups are fully customizable or you can simply assign a group with one of the default privilege profiles. You can, however, assign more than one users to the “root” account if you wish to do so. The guest account comes with a “view-only” privilege in the “Live View” page, and users in this group do not have the power to make any changes in the “Live View” page or have access to pages other than the “Live View” page.

To create a group, select a group from the “Group” drop-down

You can change the group name by clicking the “Change Group Name” button. A text box will be displayed for you to enter the new group

Choose what type of privilege you would like this group to have from the "Privilege Type" drop-down menu

Group:

Privilege Type:

Its access privilege will then be displayed. You can alter its settings by allowing or denying access to other cameras using the checkboxes instead of accepting the defaults

Group Privilege Setting

Group:

Account Type:

Live:

<input type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4	<input checked="" type="checkbox"/> CH5	<input checked="" type="checkbox"/> CH6	<input checked="" type="checkbox"/> CH7	<input checked="" type="checkbox"/> CH8
<input checked="" type="checkbox"/> CH9	<input checked="" type="checkbox"/> CH10	<input checked="" type="checkbox"/> CH11	<input checked="" type="checkbox"/> CH12	<input checked="" type="checkbox"/> CH13	<input checked="" type="checkbox"/> CH14	<input checked="" type="checkbox"/> CH15	<input type="checkbox"/> CH16

Playback:

<input type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4	<input checked="" type="checkbox"/> CH5	<input checked="" type="checkbox"/> CH6	<input checked="" type="checkbox"/> CH7	<input checked="" type="checkbox"/> CH8
<input checked="" type="checkbox"/> CH9	<input checked="" type="checkbox"/> CH10	<input checked="" type="checkbox"/> CH11	<input checked="" type="checkbox"/> CH12	<input checked="" type="checkbox"/> CH13	<input checked="" type="checkbox"/> CH14	<input checked="" type="checkbox"/> CH15	<input type="checkbox"/> CH16

Allow use of PTZ:

<input type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4	<input checked="" type="checkbox"/> CH5	<input checked="" type="checkbox"/> CH6	<input checked="" type="checkbox"/> CH7	<input checked="" type="checkbox"/> CH8
<input checked="" type="checkbox"/> CH9	<input checked="" type="checkbox"/> CH10	<input checked="" type="checkbox"/> CH11	<input checked="" type="checkbox"/> CH12	<input checked="" type="checkbox"/> CH13	<input checked="" type="checkbox"/> CH14	<input checked="" type="checkbox"/> CH15	<input type="checkbox"/> CH16

System Configuration:

<input checked="" type="checkbox"/> System Configuration	<input checked="" type="checkbox"/> Channel Configuration	<input type="checkbox"/> Event Configuration
--	---	--

3.1.5 Disk Setup

Once you install a hard disk to the recorder, you would need to initialize it so that it can be ready for recording. You can obtain basic information about the disk you installed in this page

To initialize it, simply click the "Format" button

Setup

System Configuration

Network Setup
Time and Date
Users Account
Group Privilege
Disk Setup

Channel Configuration

Event Configuration

Recording Configuration

System Options

Hard Disk Setting

Disk ID	Disk Type	Capacity	Disk Status	Format
1	Internal	445GB	Online	<button>Format</button>
2	Internal	142GB	Online	<button>Format</button>

Enable RAID 1

You can also connect external USB thumb drive to the recorder for firmware upgrade.



To obtain detail information about the disk, go to "System Options" >> "Disk Status"

3.2 Channel Configurations

3.2.1 Add a Camera

The NVR provides two options for adding a new camera. Users have the option to let the recorder automatically find the cameras or it is possible to enter camera's information and add it manually.

Setup
 System Configuration
 Channel Configuration
 Channel Setting
 OSD Setting
 PTZ Setting
 E-MAP Monitor
 Event Configuration
 Recording Configuration
 System Options

Channel Setting

Channel	Channel Name	Group	IP Address	Format	Resolution
1	cam1	Group1	192.168.101.21	MJPEG	4CIF

Click here to search camera:

* You may skip this step and add a new camera manually by entering camera's setting in the "Camera Information" section

Add New Channel:
 Channel ID:
 Channel Name:
 Group:
 IP Address:
 User Name:
 Password:
 HTTP Port:

Once you fill out above information, click "Detect" to retrieve camera setting

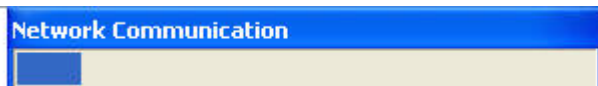
Automatic Search:

1. Click the "Search" button to perform the camera search. You should be prompted to install Active Control component in order for the search to function properly. Go ahead and click "Install"



4 Channel Network Video Recorder

2. After that, the search should begin and its status should be displayed:



3. Found cameras should be listed and simply select a camera from the list and press "Configure"



4. Its corresponding information should be displayed in the "Camera Information" section. Enter its username and password and select the channel ID and name the camera.

Add New Channel:

Channel ID:

Channel Name:

Group: [Change Group Name](#)

IP Address:

User Name:

Password:

HTTP Port:

5. Click on "Detect" to establish connection between the recorder and the camera. If connection establishes successfully, camera's detailed information should be polled and displayed as below

Detect Once you fill out above information, click "Detect" to retrieve camera setting

Additional Camera Information

Video Port:

Format:

Resolution:

Frame Rate:

Quality:

Record: ☒ Continuous

[Preview](#)

6. Adjust its video format, frame rate, resolution or bitrate...etc if you wish. You can also click on the "Preview" to preview the live video of the camera.

Click "Add" to finish adding the camera

4 Channel Network Video Recorder



If cameras are marked with "*" in the search result, it means those cameras are already configured and connected to the NVR.

1. Add a new camera by manually entering camera's setting in the "Camera Information" window.

	IP Address	HTTP Port	Installed
	192.168.101.40	80	
	192.168.101.42	80	
	192.168.101.41	80	
	192.168.101.47	80	
	192.168.101.43	80	
	192.168.101.23	80	*
	192.168.101.46	80	

Add a camera manually

Simply follow the instruction described above but instead of using the "Search" function, enter the camera's IP address and credential in the "Camera Information" manually, then follow step 5 ~6 described above.

Add New Channel:

2. Channel ID: 3
Channel Name: cam3
Group: Group1 [Change Group Name](#)

1. IP Address: 192.168.101.20
User Name: root
Password: ●●●●
HTTP Port: 80

[Detect](#) Once you fill out above information, click "Detect" to retrieve camera setting

Enter manually

3.2.2 OSD Settings

The OSD (On Screen Display) allows users to add informational text message and embed it onto the video. By default, this function is turned off. To add texts to one or more videos,

1. Select a camera you would like to add text to and choose "Display OSD"

OSD Settings

Camera: Camera 1

☐ Do Not Display OSD

☒ Display OSD

2. Choose one or more display options if you would also like the recorder to automatically embed the system time or the frame rate for you. Or simply choose to display a custom message of your own

Text Display Options

☐ Show Time

☐ Show FPS

☒ Show Text (Max. 32 char.)

3. Next, define where the text will be displayed by either entering an X/Y coordinate or use the system pre-defined position from the drop-down menu

OSD Position

☐ Display OSD at the coordinates X Y

☐ Display OSD at

4. Click on the "Preview" button to see the preview of your setting and click "Apply" to save the configuration



- The texts can be further adjusted with changes to different size, color or font so they can be more visible on the video

Customize OSD Text and Background

Text Size: ☐ Auto ☐ Self-defined 9

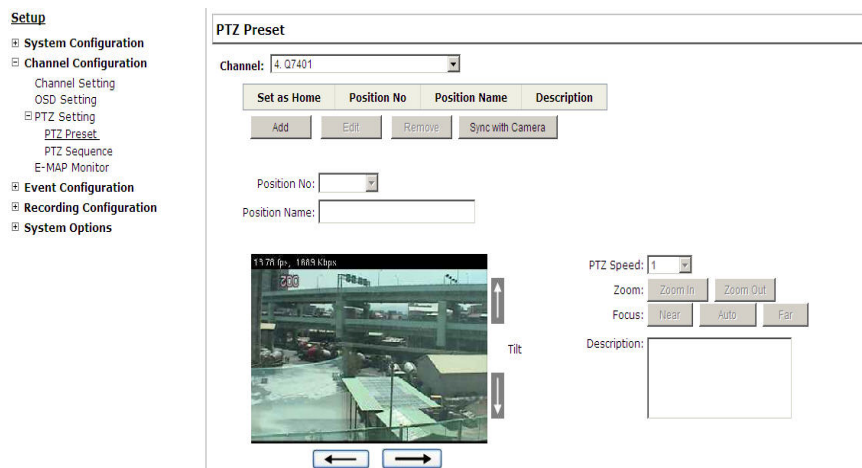
Text Color: Customize

Font: Arial

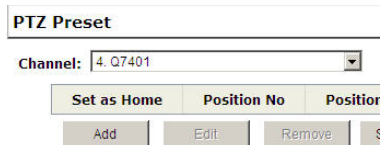
Text Background Color: ☐ Auto ☐ Self-defined Customize

3.2.3 PTZ Preset Settings

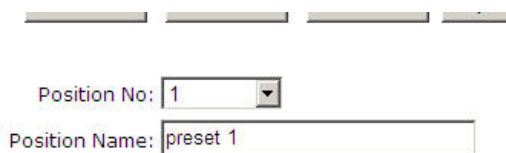
The recorder supports PTZ cameras and can set multiple preset points or retrieve and manage preset points that are set in the camera. This is helpful if you need to monitor multiple spots in one area from a particular camera.



1. To set up PTZ preset points, select a camera from the "Camera" drop-down menu and click "Add"



2. Select a position number for the preset point from the "Position Number" drop-down menu and fill in a name in the "Position Name" field for easier identification



3. Use the PTZ control provided in the configuration page to set the preset point



Ultimately, you can choose to make this preset point a “Home” point among all other preset points, as well as making the camera to move to this particular point when an event is triggered.

Setup

- System Configuration
- Channel Configuration
 - Channel Setting
 - OSD Setting
 - PTZ Setting
 - PTZ Preset**
 - PTZ Sequence
 - F-MAP Monitor

PTZ Preset

Channel: 4_Q7401

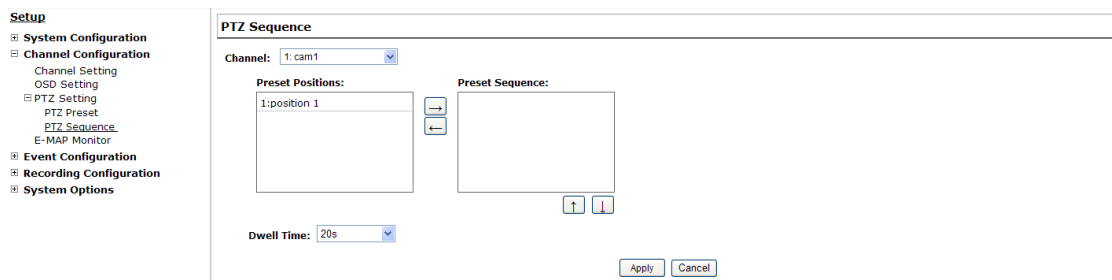
Set as Home	Position No	Position Name	Description
-------------	-------------	---------------	-------------

Add Edit Remove Sync with Camera

- *“Move Here when Event Trigger”: In order for this function to work properly, please also complete configuration in “Event Configuration” >> “Event Trigger”*

3.2.4 PTZ Preset Sequence

Once you have multiple preset points defined for a camera, it is convenient for monitoring to set up the sequencing viewing among those preset point and let the recorder automatically switch between them for you.



To configure preset sequence for a camera, select a channel from the "Channel" drop-down menu

The available preset points should be listed in "Camera Presets" section

Pick the ones you like for sequence viewing and press the "->" button to move them to the "Preset Sequence" section, then use the up and down buttons to adjust their sequencing positions.

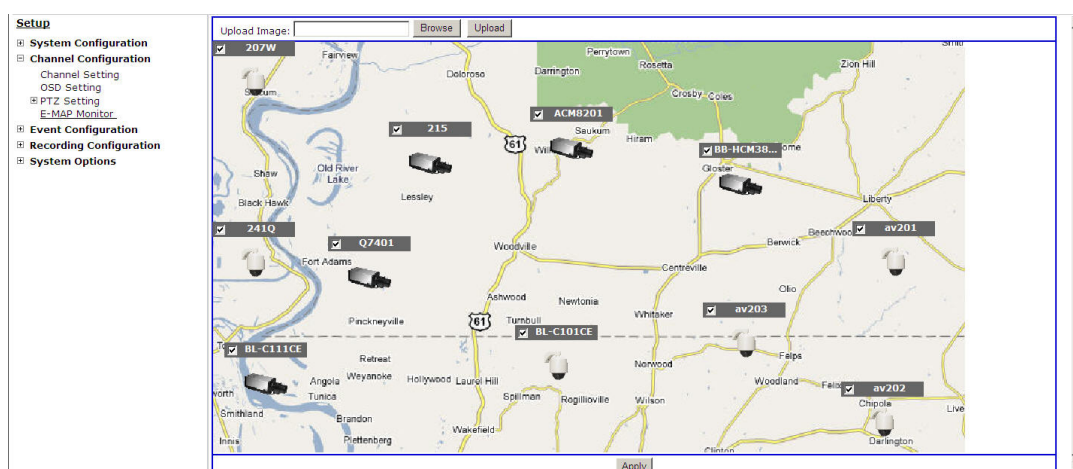
Finally, select a dwell time from the drop-down menu and click "Apply" to save the configuration

- To start preset sequence viewing, check page 16 for instructions

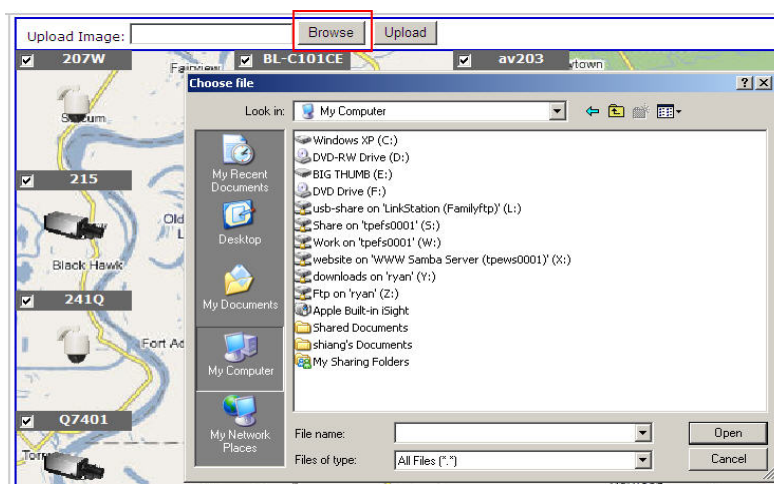
3.2.5 E-Map Monitor

3.2.5.1 Local Map Setting

E-Map monitor is a function that alerts users whenever there is an event triggered (e.g. motion detected) from a camera with a geographical perspective. With this function, users can quickly identify which camera has detected an unusual event and where this event is happening. This function works by incorporating the event detection function as well as the recording function, which, as a result, helps users take all the necessary actions when an unusual event occurs.



To replace the map, click "Browse" button to locate the new map image file from the local PC and then click "Upload"



- Only JPG, PNG, and GIF file formats are supported with file size under 100KB

Then click and drag the camera icon to move the camera to define its location.



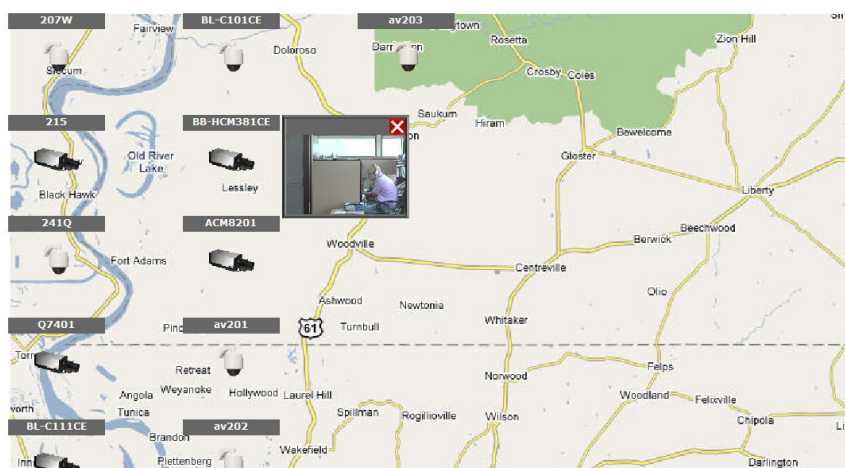
Access the E-Map Monitor page from the upper-right hand corner menu

[Main View](#) | [E-MAP Monitor](#) | [Setup](#) | [Channel Status](#)

System Time: May 06, 2009 11:27:58

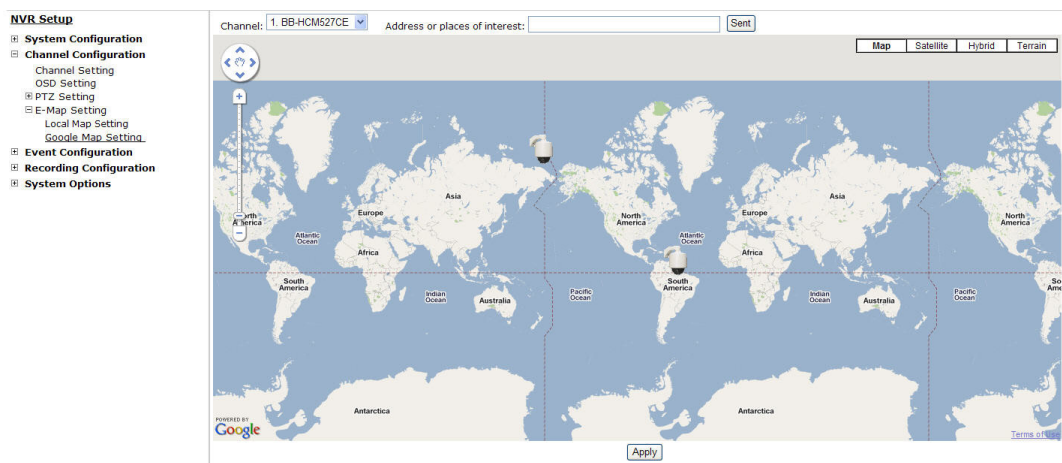
User: [admin](#)

When the NVR receives an event triggered from any of the cameras, their videos will be displayed on the E-Map and you can double-click on the video to enlarge it



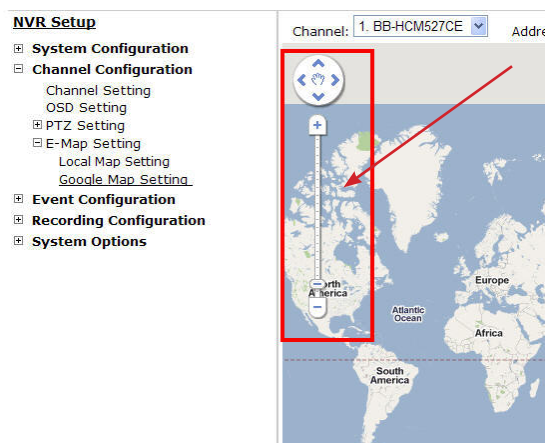
3.2.5.2 Google Map Setting

The Google Map monitor is a similar function to the aforementioned E-Map monitor. It is useful if you are managing multiple cameras from different locations.

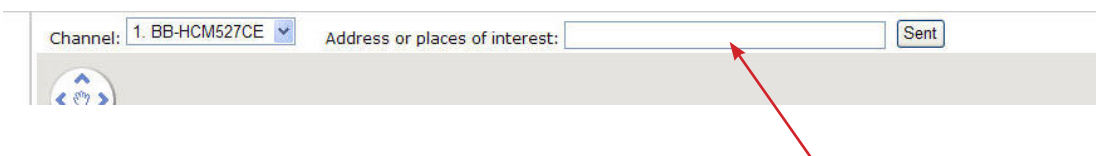


To configure locations of each camera, first determine the location you'd like to place the camera to on the map. You can do so by:

1. Zoom in to a smaller area by using the zoom control bar on the map
2. Zoom in to a smaller area by using the mouse scroll button



You can also go to a specific place on the map by entering its address or the name of the place in the "Address or places of interest" field:



Once the location has been determined, click and drag the camera icon to move it to the desired location:



** Click and drag the icon to re-arrange its location*

- The Google Map Monitor requires active Internet connection and can not be used in conjunction with the regular E-Map monitor function.
- You can click anywhere on the map and hold down the mouse left button then drag to move the map itself

You can then access the Google Map Monitor from the top menu:



3.3 Event Configurations

The “Event Configurations” section allows users to define conditions that constitute an event, its corresponding trigger action and when it will be triggered. Such setting can reduce the management overhead and notify the administrator only when it's necessary.

3.3.1 General Settings

The general settings section can help you quickly configure when an event is triggered, how often events are triggered and the corresponding actions when events are triggered.

SETUP

- System Configurations
- Camera Configurations
- Event Configurations
 - General Settings
 - I/O Settings
 - Event Servers
 - Event Trigger
- Recording Configurations
- System Options

General Settings

Event Trigger Duration

☐ Always
☐ Only During
 ☐ Mon. ☐ Tue. ☐ Wed. ☐ Thur. ☐ Fri. ☐ Sat. ☐ Sun.

Start Time: 00:00 End Time: 00:00

Event Trigger Interval

Interval: 5 sec (5~ 86400)

Trigger Action

☐ Send Image 1 frames, File Name: CH1_MD_0909182508.jpg * You may use a combination of CH#/TriggerType /Device Name/Time/IP to better differentiate among all files
☐ Send Video
☐ Send Message

Text

The message was sent from SVR-116. The system has detected an unusual event

Subject: (Optional) * Fill in this option to include subject if this message will be sent as a mail

File Name: (Optional) * Fill in this option if this message will be uploaded to a FTP server as a text file

Apply Cancel

Start the event configuration by defining the general settings:

Define when an event will be triggered

- Choose “Always” or “Only during...” under “Event Trigger Duration”
- For the “Only during...” option, choose the days by using the checkbox and then define the time range in those days in the “Start Time” and “End Time” fields that you would like the event trigger function to be enabled.

How often an event is triggered

- Set a time interval under “Event Trigger Interval” to define how often events are triggered

Trigger action

Now that you have the event trigger duration and interval defined, choose what action to be taken during an event trigger:

- You can choose to have the recorder send out the first few frames of the video recorder upon an event is triggered
- You can also choose to have the recorder send out a warning message in e-mail or in txt file format and upload it to an destined FTP server

** The image(s) that are uploaded to the destined FTP server or emailed to a destined mail recipient are in their own proprietary image file format (.h4i or .p4i), which can only be opened by the NVR media player. For details, please refer to page34.*

3.3.2 Event Servers

Event servers are to be used with event trigger actions. In case of unusual motion detected by the camera or a disk failure, the recorder can send notification with the acceptable format (image/txt) to a destined event server according to the configuration.

Configuring an FTP server

NVR Setup

- System Configuration
- Channel Configuration
- Event Configuration
 - General Setting
 - DI/DO Setting
 - Event Servers
 - FTP Servers**
 - HTTP Servers
 - SMTP Servers
 - Event Trigger
- Recording Configuration
- System Options

FTP Servers Setting

Name	Network Address	Port	Passive Mode	Enabled
<input type="button" value="Edit"/>	<input type="button" value="Remove"/>			

FTP Server
Name:
Network Address: *Enter host name or IP address
Port:
Login Information
User Name:
Password:
Passive Mode
☐ Use Passive Mode
Test
 *Click "Test" to test the connection to the FTP server:

To add an FTP server,

1. Start by giving a name to the server that you are adding to the recorder
2. Enter the hostname or the IP address of the FTP server
3. Enter the communication port of the FTP server (usually port 21)

FTP Server

Name:
Network Address: * Enter host name or IP address
Port:

4. Enter the username and password of the FTP server if it's required
5. Check "Use Passive Mode" if it's required or leave it unchecked to use active mode

Login Information

Username:

Password:


Passive Mode

☐ Use Passive Mode

6. Click "Test" to verify if all information is entered correctly and the connection to the FTP server can be established successfully
7. Click "Add" for the settings to take effect

Test

*Click "Test" to test the connection to the FTP server:

 If you wish to edit/remove/enable/disable an FTP server, click to highlight one from the profile list and choose the corresponding action button/checkbox

Name	Network Address	Port	Passive Mode	Enabled
test	ftp.test.com	21	No	<input checked="" type="checkbox"/>
<input type="button" value="Edit"/>	<input type="button" value="Remove"/>			

Configuring an SMTP server

SETUP

- System Configurations** ▶
- Camera Configurations** ▶
- Event Configurations** ▶
 - General Settings
 - I/O Settings
 - Event Servers
 - FTP Servers
 - HTTP Servers
 - SMTP Servers**
 - Event Trigger
- Recording Configurations** ▶
- System Options** ▶

SMTP Servers Settings

SMTP Server 1

Network Address:

Port:

Sender's Name:

Sender's E-Mail:

☐ Enable Authentication

Username:

Password:

Test

Send test email to:

SMTP Server 2

Network Address:

Port:

Sender's Name:

Sender's E-Mail:

☐ Enable Authentication

Username:

Password:

1. Enter the hostname or the IP address of the SMTP server
2. Enter the port of the SMTP server
3. Specify the sender's name in the "Sender's name" field
4. Enter the sender's e-mail address
5. Check "Enable Authentication" and enter the username and password of the SMTP server and as it requires authentication
6. Click "Apply" to save the configuration

3.3.3 Event Triggers

We have finished defining how an event will be triggered and which servers will be receiving notifications in the previous two sections, now we can finish up the event configuration by setting:

- which channels will have event trigger function enabled
- What is considered to be an event
- Where the warnings will be sent to and how they will be sent

Setup

- System Configurations
- Camera Configurations
- Event Configurations
 - General Settings
 - I/O Settings
 - Event Servers
 - FTP Servers
 - HTTP Servers
 - SMTP Servers
 - Event Trigger
- Recording Configurations
- System Options

Event Handling Settings

When Cameras is Triggered by

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

When NVR-0216 is Triggered by

- ☒ Recycled
- ☒ Disk Full
- ☒ Disk fail
- ☒ When NVR-0216 starts up
- ☒ When NVR-0216 shuts down
- ☒ When NVR-0216 Configuration Changed
- ☒ Camera's Configuration Changed

Trigger Actions

☐ E-Mail: E-Mail Addresses: *use , to separate e-mails

☐ FTP Upload Path:

☐ HTTP

☒ Trigger Output

☒ Buzzer

Apply

Select Channels to Enable Event Trigger and which type of event should be triggered

- Use the checkbox to enable event trigger on the desired channels

Event Handling Settings

When Cameras is Triggered by

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* Once motion detection is enabled in this page, please configure the motion area and enable motion detection in the corresponding channels (cameras). The NVR only detects the first motion area set in the camera. The NVR recognizes the first motion area by its ID number set in the camera.

4 Channel Network Video Recorder

- Define which system events should trigger the recorder to send out notifications

When SVR-116 is Triggered by

- | | |
|---|---|
| <input type="checkbox"/> Recycle | <input type="checkbox"/> When SVR-116 Shuts down |
| <input type="checkbox"/> Disk Full | <input type="checkbox"/> When SVR-116 Configuration Changed |
| <input type="checkbox"/> Disk Fail | <input type="checkbox"/> Camera Configuration Changed |
| <input type="checkbox"/> When SVR-116 Starts up | |

- Define how the notifications will be sent and where they will be sent to

Trigger Actions

- | | | | |
|--------------------------|---------------------------|--|-------------------------------|
| <input type="checkbox"/> | E-Mail: | E-Mail Addresses: <input type="text"/> | *use ", " to separate e-mails |
| <input type="checkbox"/> | FTP | Upload Path: <input type="text"/> | |
| <input type="checkbox"/> | HTTP | | |
| <input type="checkbox"/> | Trigger I/O Output | | |

** Event trigger may not work for cameras that are placed outside of your local network or on the Internet until the "UPnP Port Forwarding" is enabled in both the NVR and the router.*

3.4 Recording Configurations

The "recording configurations" gives users the overall control of how and when a recording is performed and the quality of different types of recordings performed on each channels. It can help the recorder to operate with sufficient system resource by performing recording only when it's necessary with adjustable recording frame rate.

You can define the following in "General Settings":

- Pre-Alarm/Post-Alarm recording length
- Recording frame rate
- Enable/disable different recording types on different cameras
- Enable/disable audio recording

Setup

- System Configurations
- Channel Configurations
- Event Configurations
- Recording Configurations
 - General Settings
 - Schedule Settings
- System Options

Recording General Setting

Recording Buffer

Pre-alarm Buffer: 0 sec
Post-alarm Buffer: 5 sec

Recording Frame Rate

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	1	1 Only	1	1 Only	1											
Schedule	5	1 Only	5	1 Only	5											
Event	Full	Full	Full	Full	Full											
Manual	Full	Full	Full	Full	Full											

Recycling

☒ Enable Recycle

Camera Recording Setting

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
Event	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											

The "recording buffer" allows user to define "pre-alarm" and "post-alarm" time for event recordings. The "pre-alarm" time sets the NVR to record in advance when an event is triggered. The "post-alarm" time sets the NVR to continue recording for a period of time after an event trigger is finished.

Recording Buffer

Pre-alarm Buffer: sec

Post-alarm Buffer: sec

* The "Pre-alarm" function only works when the "Continuous" recording is also activated.

Recording frame rate allows you to set different frame rate for different types of recording instead of recording at one frame rate only. Use the drop-down menu and select one of the pre-defined frame rates for a particular recording type

Recording Frame Rate

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	1	I Only	1	I Only	1											
Schedule	5	I Only	5	I Only	5											
Event	Full	Full	Full	Full	Full											
Manual	Full	Full	Full	Full	Full											

The "Camera Recording Setting" section allows you to turn on or off a particular recording type on any channels.

Camera Recording Setting

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
Event	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											

The section at the bottom of the page allows you to disable audio recording (record video only) of particular channels.

Record Audio

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Record audio	<input type="checkbox"/>															

3.4.2 Schedule Recording

Here you can define the time range of the schedule recording for all channels.

Setup

- System Configurations
- Channel Configurations
- Event Configurations
- Recording Configurations
 - General Settings
 - Schedule Recording Settings
 - System Options

Schedule Recording Settings

Channel: 1. Camera_Ch1

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

Clear

Quick Configuration

Days:

☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat ☒ All

Duration:

☐ All day

☒ During Start Time: 00 : 00 End Time: 00 : 00

Add

Copy Schedule To Channel:

To configure a schedule recording:

1. Use the "Channel" drop-down menu and select a camera first

Channel:

2. You can use the schedule table to set the time range. Click the cell boxes then move horizontally lets you set what hours to perform recording during a day. Click and move vertically lets you set what days to perform recording at a specific time.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

Clear

* Each cell box represents 15 minutes of time. Click one or more boxes to omit consecutive recording

3. You can also use the “Quick Configuration” to define recording time range instead of clicking cell boxes one by one on the time table. Simply check what days you would like to perform recording and specify the recording duration by either choosing “All Day” or enter a start and end time for specific recording duration.

Quick Configuration

Days

☐ Mon. ☐ Tue. ☐ Wed. ☐ Thur. ☐ Fri. ☐ Sat. ☐ Sun.

Duration

☒ All day

☐ During Start Time: End Time:

4. Select the “Copy to” option if you would like to set the same recording schedule to another camera.

☒ During Start Time: : End Time:

Copy Schedule To Channel:

Apply

3.5 System Options

System Options gives users a glance of the overall system status and allows users to perform maintenance tasks such as upgrading firmware, restore/backup device settings or reboot deviceetc.

3.5.1 Device Information

The "Device Information" provides the general information of the device such as firmware version and system time. It also provides information of the current network settings and status.

Setup

- ⊕ System Configuration
- ⊕ Channel Configuration
- ⊕ Event Configuration
- ⊕ Recording Configuration
- ⊖ System Options
 - Device Information
 - System Logs
 - Maintenance
 - DO Status
 - Disk Status
 - UPS Configuration

General Information

Device Name: tst
Model Name: NVR-0104
Firmware Version: 1.2.0.30014714
Device Time: Up 0 days 16:56:55, since May 05 2009 18:56:23

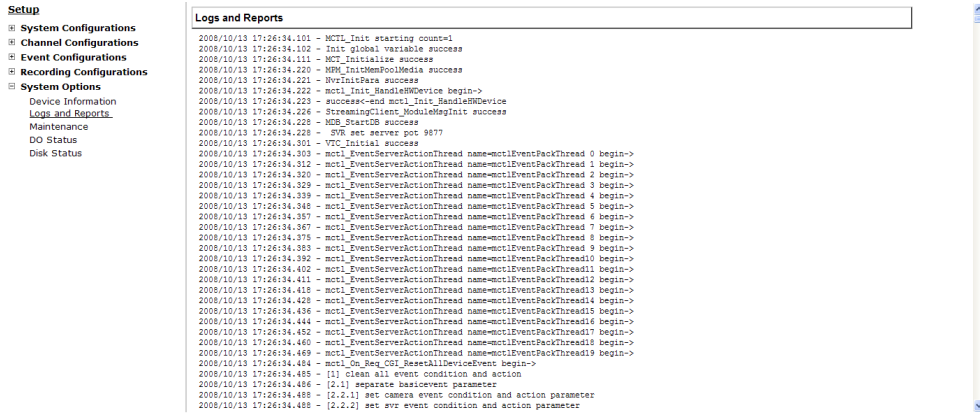
Network Information

Network Type: DHCP
Device IP: 192.168.102.2
HTTP Port: 80
Streaming Port: 9877
MAC Address: 00:28:68:78:31:03
DHCP Server: Disabled
UPnP Port Forwarding: Disabled

Current DHCP Clients

3.5.2 Logs and Reports

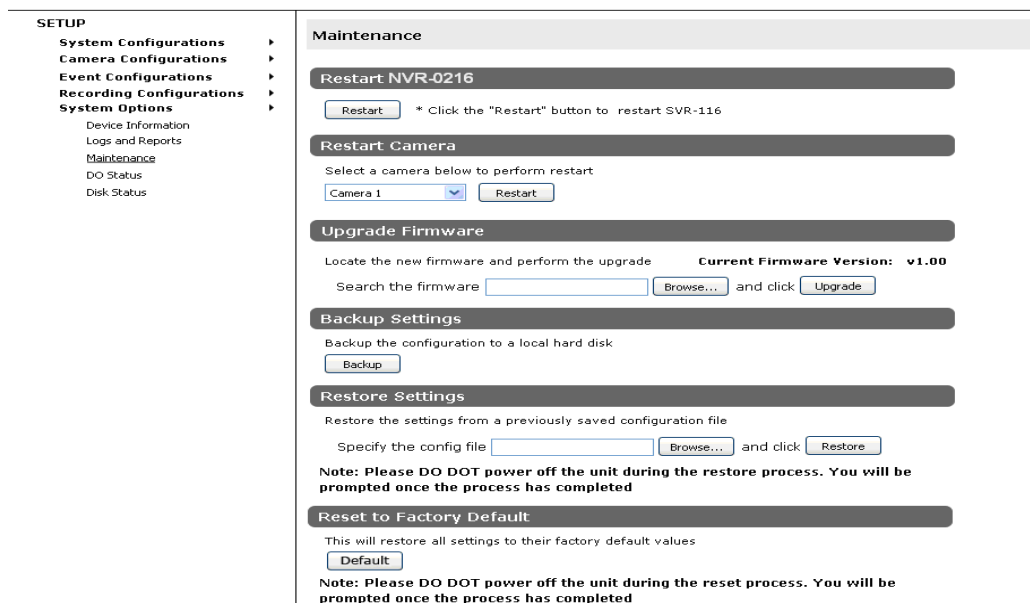
“Logs and Reports” keeps a record of what’s been happening to the device and provides basic information for troubleshooting



3.5.3 Maintenance

“Maintenance” provides functions for users to:

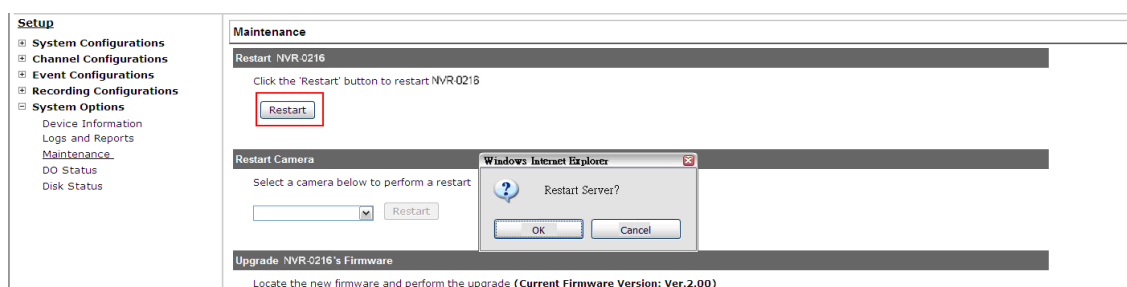
- Reboot the NVR when necessary
- Reboot cameras directly from the NVR
- Perform Firmware Upgrade
- Backup the NVR’s settings to a local hard drive
- Restore the NVR’s settings from a previously saved configuration file
- Reset the NVR’s settings to their factory default values



Reboot the NVR

Reboot the NVR after you upload a new firmware. You would need to manually reboot the system for the new firmware to take effect. Such process would prevent a recording from getting interrupted because the system would not automatically reboot itself after the new firmware is loaded onto the recorder.

Simply click "Restart" to begin the reboot process and confirm the action:



The restart process should be displayed and you should be prompted back to the "Maintenance" page after it is complete:



Reset the NVR to Factory Default

To reset the recorder back to its factory default, click "Default" button and begin the process:

SETUP

- System Configurations
- Camera Configurations
- Event Configurations
- Recording Configurations
- System Options
 - Device Information
 - Logs and Reports
 - Maintenance
 - DO Status
 - Disk Status

Maintenance

Restart NVR-0216

Restart * Click the "Restart" button to restart NVR-0216

Restart Camera

Select a camera below to perform restart

Camera 1 Restart

Upgrade Firmware

Locate the new firmware and perform the upgrade **Current Firmware Version: v1.00**

Search the firmware Browse... and click Upgrade

Backup Settings

Backup the configuration to a local hard disk

Backup

Restore Settings

Restore the settings from a previously saved configuration file

Specify the config file Browse... and click Restore

Note: Please DO NOT power off the unit during the restore process. You will be prompted once the process has completed

Reset to Factory Default

This will restore all settings to their factory default values

Default

Note: Please DO NOT power off the unit during the reset process. You will be prompted once the process has completed

The process should be displayed and you should be prompted back to the "Live View" page after it is complete:

Setup

- System Configurations
- Channel Configurations
- Event Configurations
- Recording Configurations
- System Options
 - Device Information
 - Logs and Reports
 - Maintenance
 - DO Status
 - Disk Status

Upgrade NVR-0216's Firmware

Locate the new firmware and perform the upgrade

Search the firmware Browse... and click Upgrade

Backup Settings

Backup the configuration to a local hard disk

Backup

Restore Settings

Restore the settings from a previously saved configuration file

Specify the config file Browse... and click Restore

Note: Please DO NOT power off the unit during the restore process. You will be prompted once the process has completed

Reset to Factory Default

This will restore all settings to their factory default values

Default

Note: Please DO NOT power off the unit during the reset process. You will be prompted once the process has completed

The system is resetting to its factory default settings, please wait.....60

3.5.4 Disk Status

“Disk Status” gives you a more detailed information of the hard drive that is currently installed in the NVR.

Setup

System Configuration

Channel Configuration

Event Configuration

Recording Configuration

System Options

Device Information

System Logs

Maintenance

DD Status

Disk Status

Disk Status

Disk ID	Status	Capacity	Remaining Disk Space	Remaining	Online Time	Recording Period	Est. Remaining Time
1	Offline	500GB	0GB	0%	--	--	--
2	Online	160MB	0MB	0%	May 05 2009 18:56:23		--