



# ESV4 User's Manual

4CH Network Video Recorder with Local Display

**surveillix** **sv**

Version 1.0.0

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# System Overview

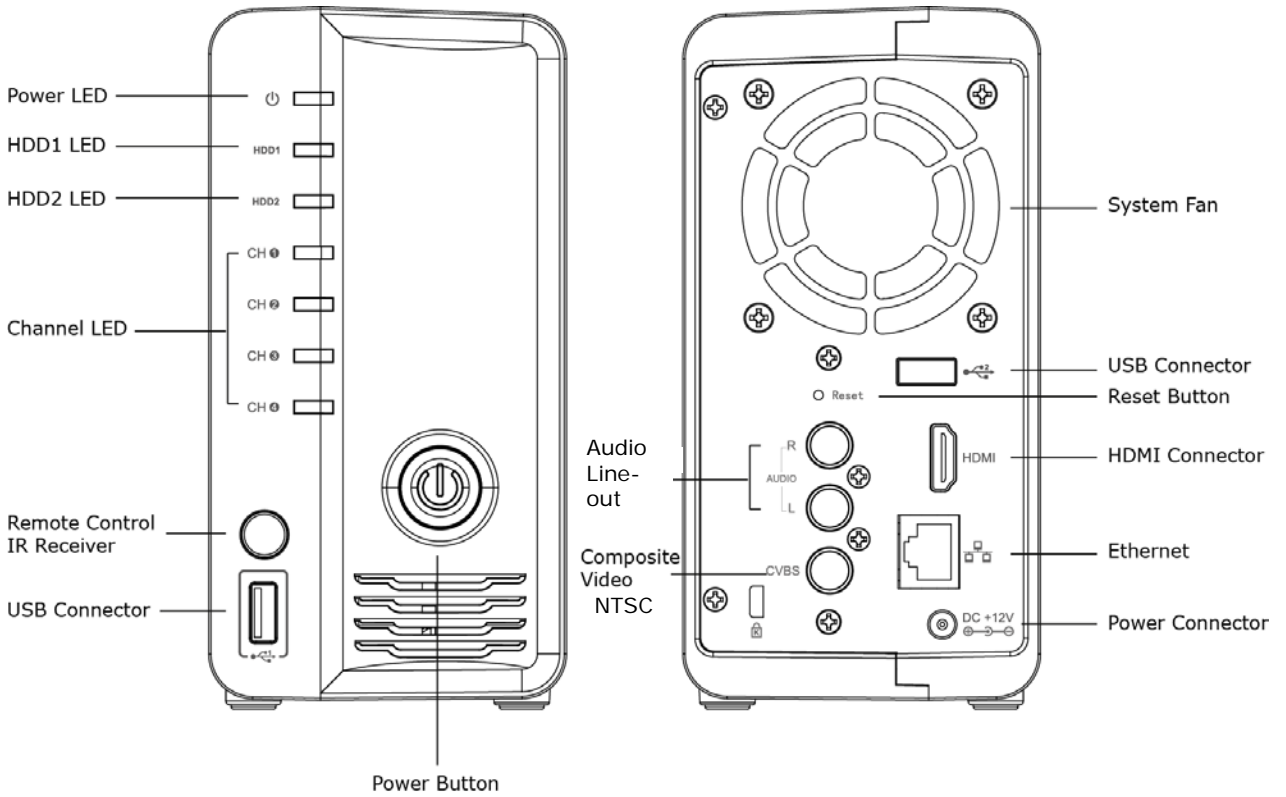
## Front View



## Rear View



### Part names



### LED Definition

<b>Power</b>	Green	Solid when system is fully started.
	Red	Solid red when system is off, but power cord remains plugged in.
	Amber	Blinking during system initialization, reboot, and firmware upgrade.
	Off	When system is off and the power cord is not plugged in.
<b>HDD1/2</b>	Green	Solid green when disk is online.
	Red	Solid red when disk error.
	Amber	Solid amber when it's recording. Blinking amber when the disk is recycle.
	Off	No disk, or disk is offline.
<b>Channel 1~4</b>	Green	Solid green when it's online. Blinking during event triggered.
	Off	Disconnected, or no camera is configured.

## Installation

### HDD Installation

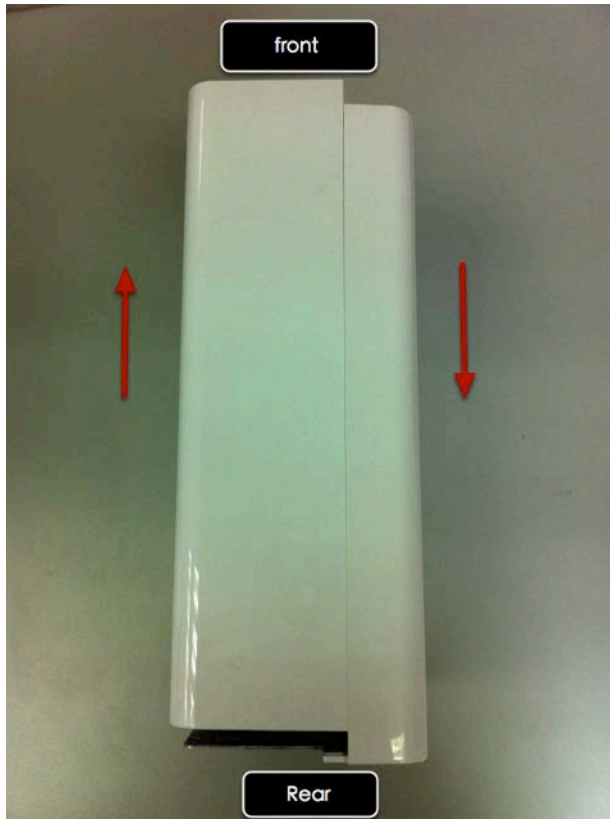


Locate the screws highlighted above on the back of the NVR.



Use a Philips screwdriver to release the screws.





Slide open the case as shown above.



One side of the housing can be detached as shown above.



Install the top HDD by attaching it to the corresponding SATA cable first.



Make sure the HDD is securely attached.



Place the HDD to the tray and make sure the screw holes on the HDD are aligned with the ones on the tray.



Secure the HDD with the screws provided in the accessory box with a Philips screwdriver. There are four for each HDD; two for each side of the tray.



Slide the side housing back to the unit.



Secure the housing with the screws highlighted above.

**NOTE:**

Maximum capacity of each hard disk drive is 3TB.

Do not use hard disk drives with power saving functions such as Intellipower.

For a list of compatible hard disk drives, visit [www.toshibasecurity.com](http://www.toshibasecurity.com).

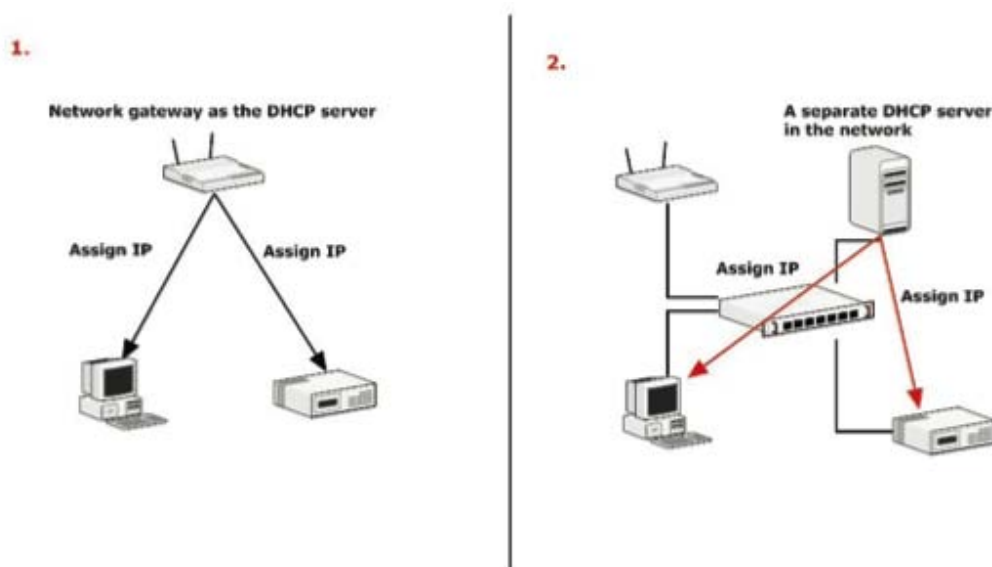
## Connect to the NVR

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

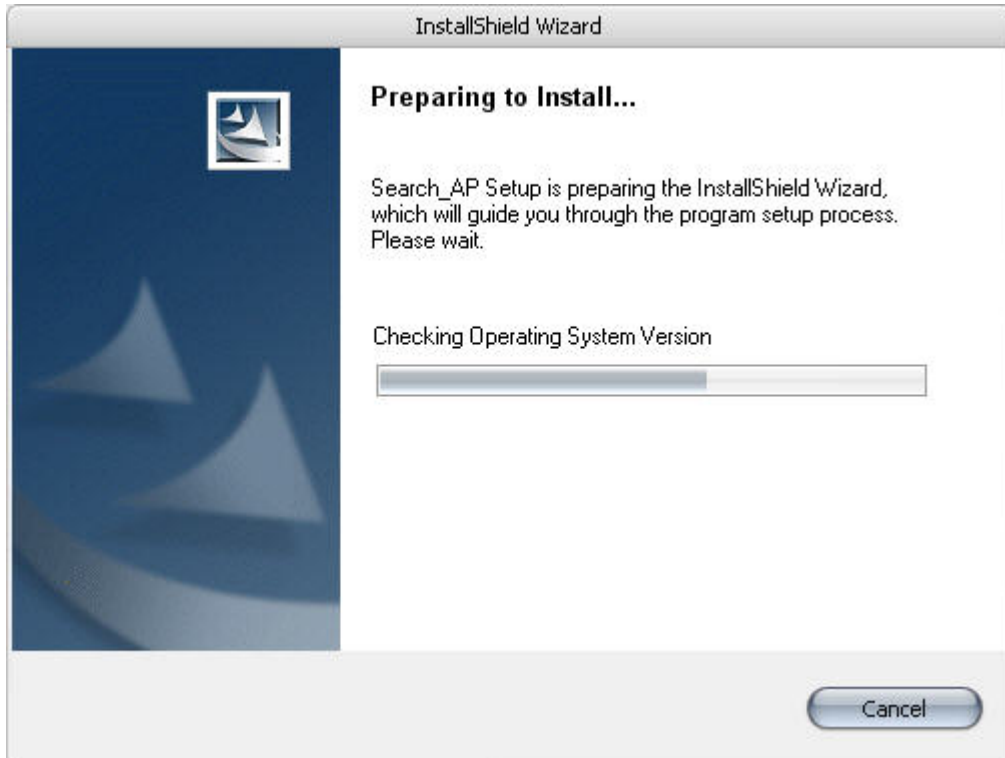
### Through the browser from another PC on the network:

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

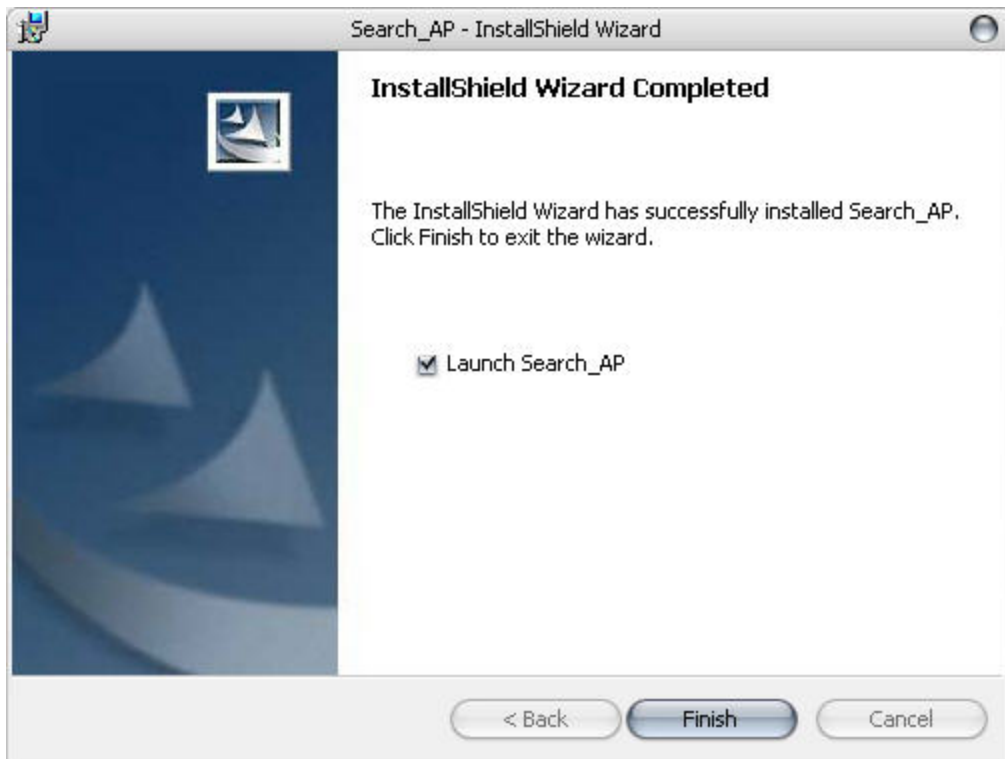
## Use Device Search Utility



If the NVR is placed in a corporate network or a local area network where a DHCP server is already presented, run the “NVR Device Search” utility 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.



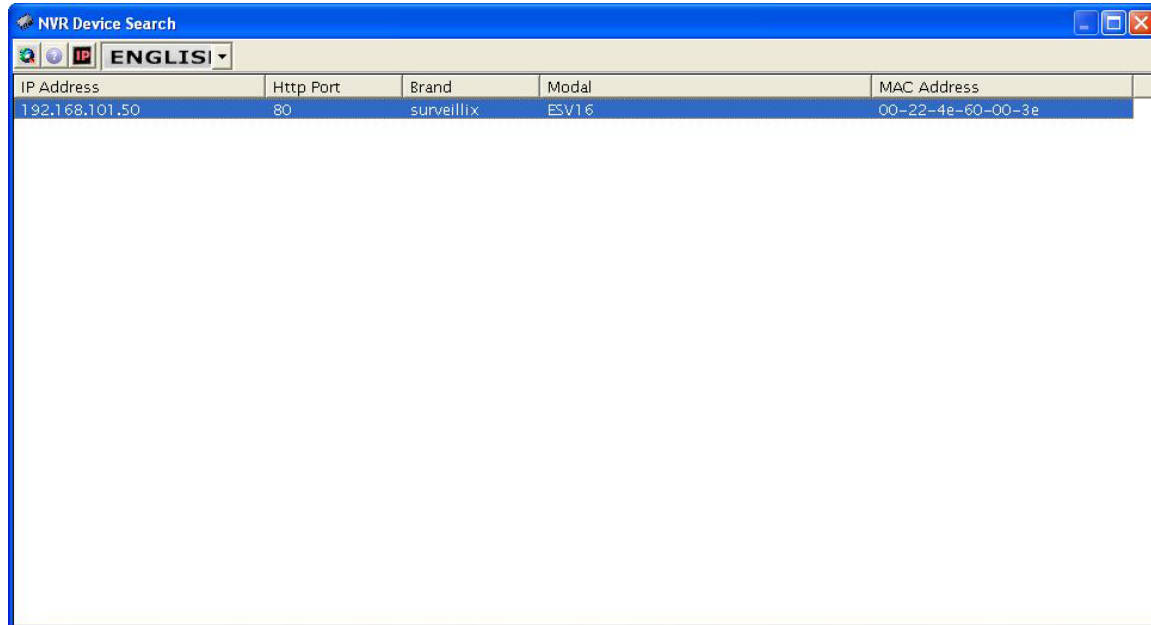
To begin, launch the "NVR Device Search" utility from the CD and proceed with the installation:



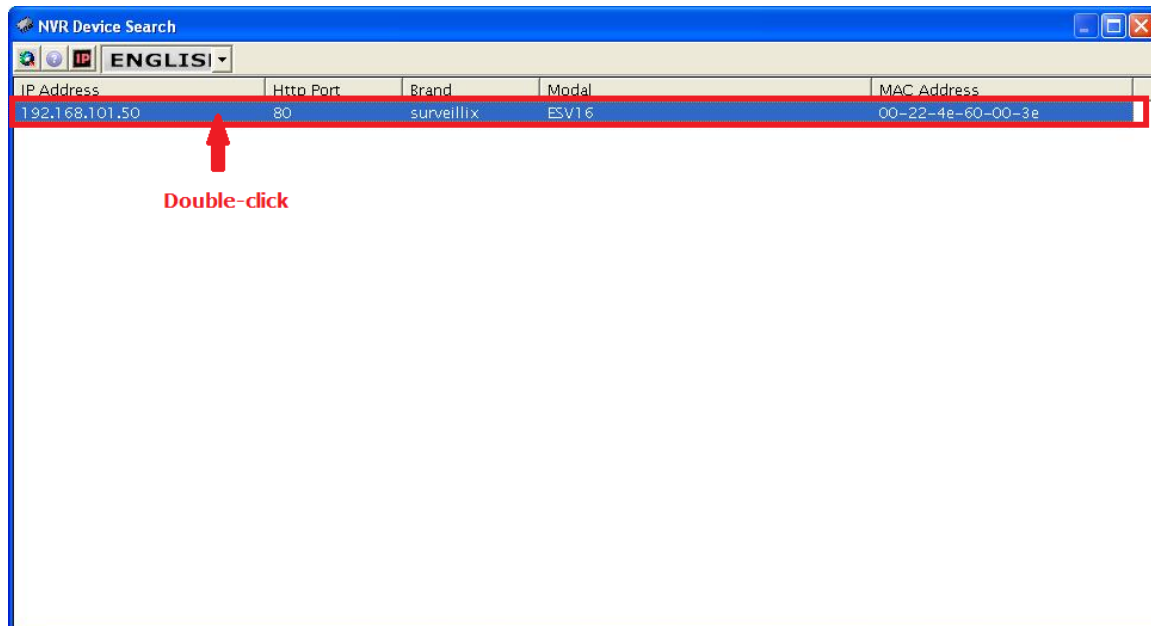
Once the installation is complete, check the "Launch the Search AP" option and click "Finish".



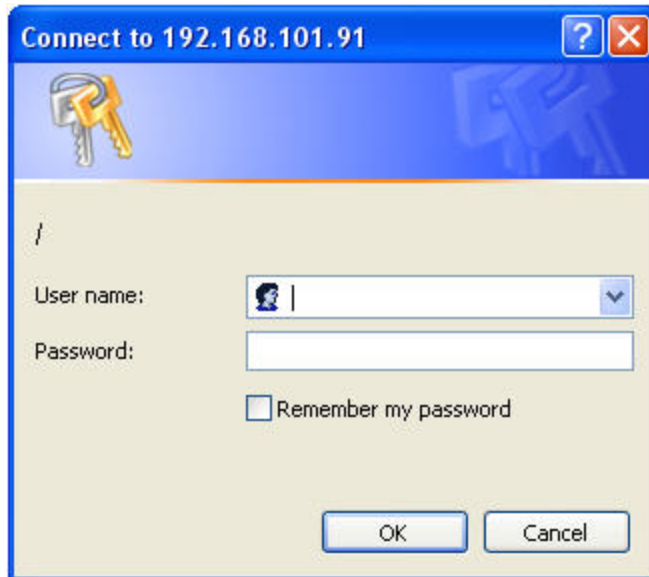
The search should start automatically and its status should be displayed.



The NVR should be located and its IP address should be displayed.

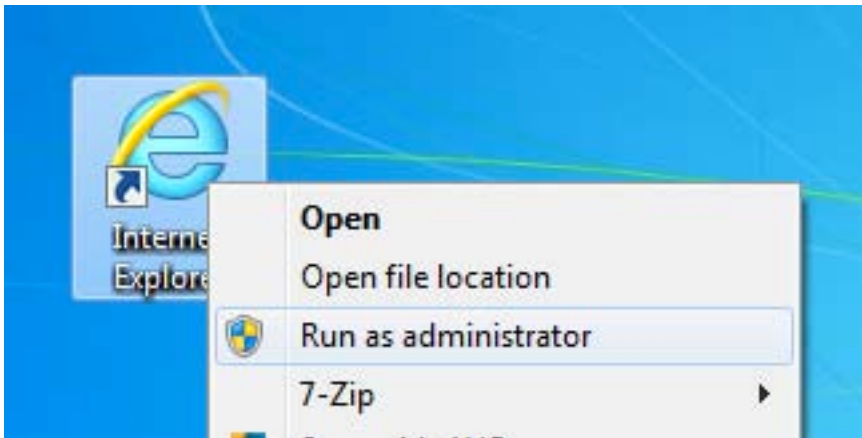


Double-click on an NVR and the search program should automatically access the NVR's web administration page from your default browser.



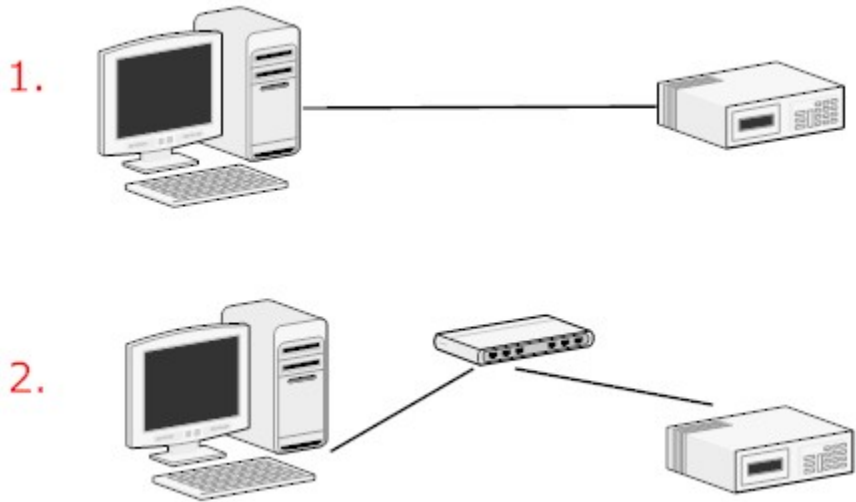
You will be prompted for the NVR's username and password. Enter its default username "**admin**" and password "**admin**" and then click "OK" to enter the system.

- Please make sure you are using Internet Explorer 7 or above (IE 10 is NOT yet supported).
- If you are running Windows Vista or 7, please make sure you are running Internet Explorer with the "administrator" privilege.

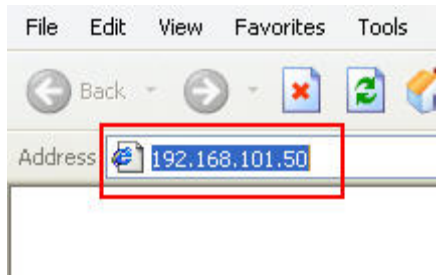




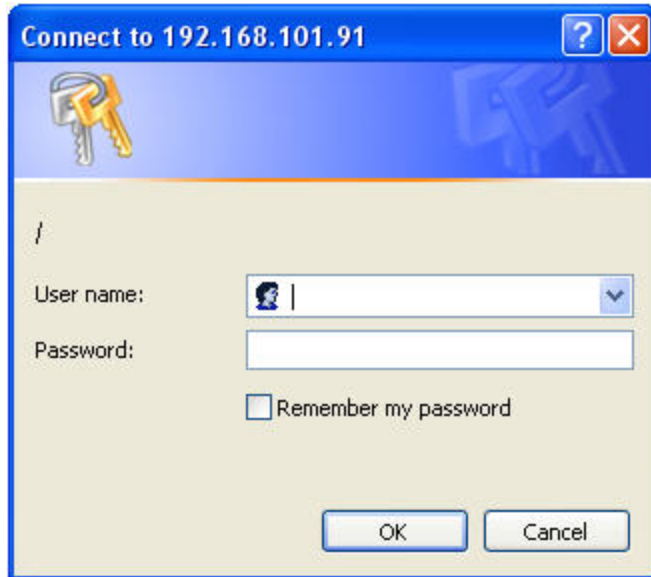
### Access the NVR with its default IP address



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.

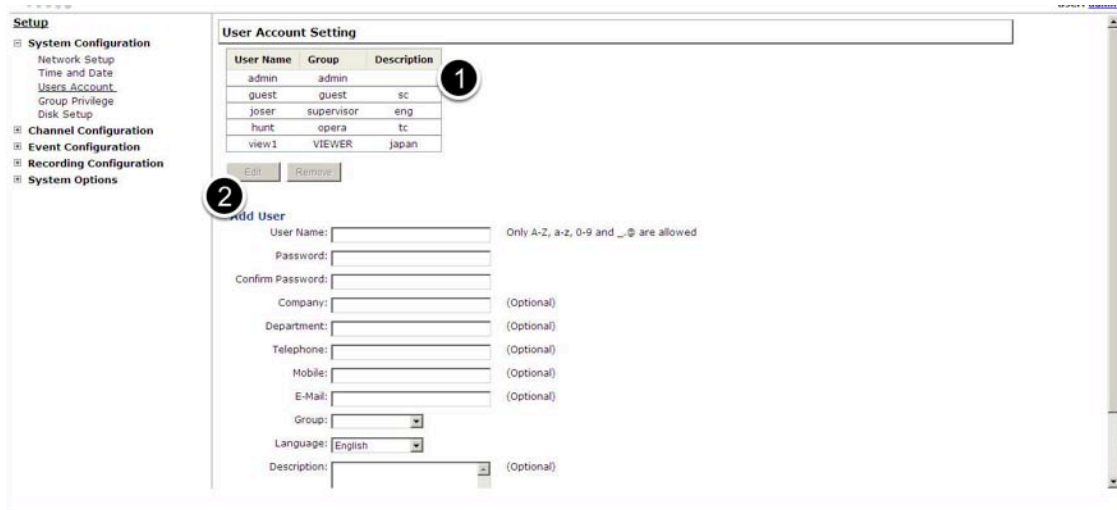


The PC that is connected directly to the NVR (or within the same local area network) should receive an IP from the NVR. Simply access the NVR from your web browser with its IP address



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

## Set up Password



The default login username and password is admin/admin. To change the password of the admin account, go to **"Setup"** --> **"System Configurations"** --> **"User Account"**, click on the **"admin"** account in the account list then press the **"edit"** button to change its password. Finally, click **"Apply"** to save the change.

## Camera Installation

### Add a Camera -- Automatic Search

Click Search to Add:

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

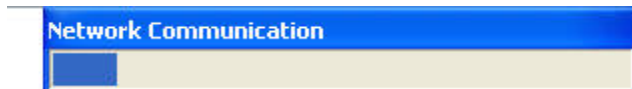
Brand	Model	IP Address	HTTP Port
AVTech	FIX	192.168.101.25	80
Panasonic	BB-HCM515A	192.168.101.23	80
Axis	215 PTZ	192.168.101.21	80
Axis	212 PTZ	192.168.101.24	80
Axis	Q7401	192.168.101.28	80
Axis	207W	192.168.101.20	80
SONY	SNC-RX550N	192.168.101.27	80
SONY	SNC-RZ25N	192.168.101.26	80

\*select a camera from the search result and click configure to "Configure" setting below.

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"



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

Click Search to Add:

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

Brand	Model	IP Address	HTTP Port
AVTech	FIX	192.168.101.25	80
Panasonic	BB-HCM515A	192.168.101.23	80
Axis	215 PTZ	192.168.101.21	80
Axis	212 PTZ	192.168.101.24	80
Axis	Q7401	192.168.101.28	80
Axis	207W	192.168.101.20	80
SONY	SNC-RX550N	192.168.101.27	80
SONY	SNC-RZ25N	192.168.101.26	80

2 Select a camera from the search result and click configure to "Configure" setting below.

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

**Add New Channel:**

Channel ID:

Channel Name:

IP Address:

User Name:

Password:

HTTP Port:

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.

**Detect** ← you fill out above information, click "Detect" to retrieve camera settings

**Additional Camera Information**

Audio Port:

Video Port:

Live video Format:

Live Video Frame Rate:

Live Video Resolution:

Live Video Quality:

Click on "Detect" to establish connection between the recorder and the camera. If a connection is established successfully, the camera's detailed information will be displayed as below. Adjust its video format, frame rate, resolution or bit rate...etc if you wish and then click "Add" to finish adding the camera

**Add a camera manually**

**Add New Channel:**

Channel ID:

Channel Name:

IP Address:

User Name:

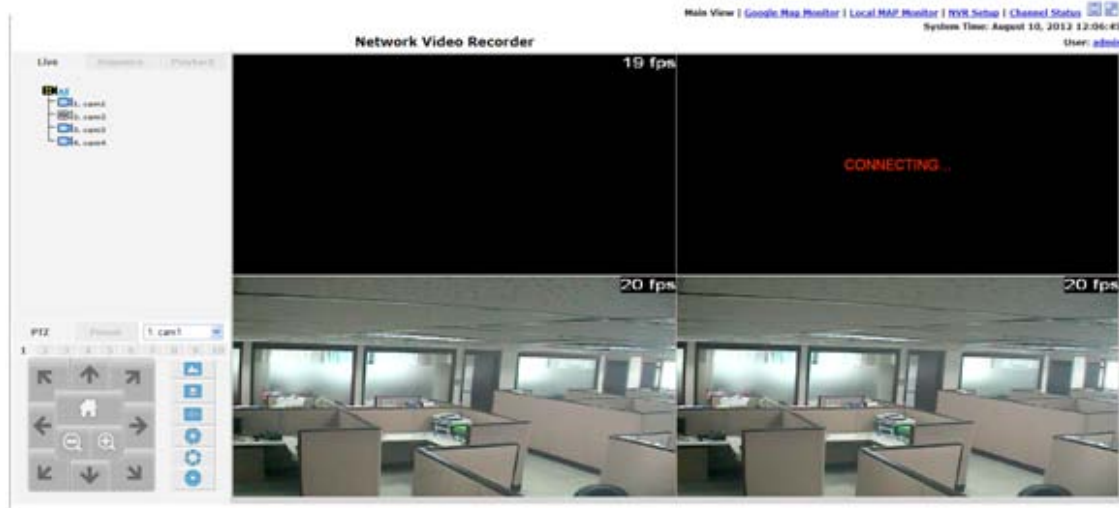
Password:

HTTP Port:

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.

## Live View (Web Interface)

### Live View



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

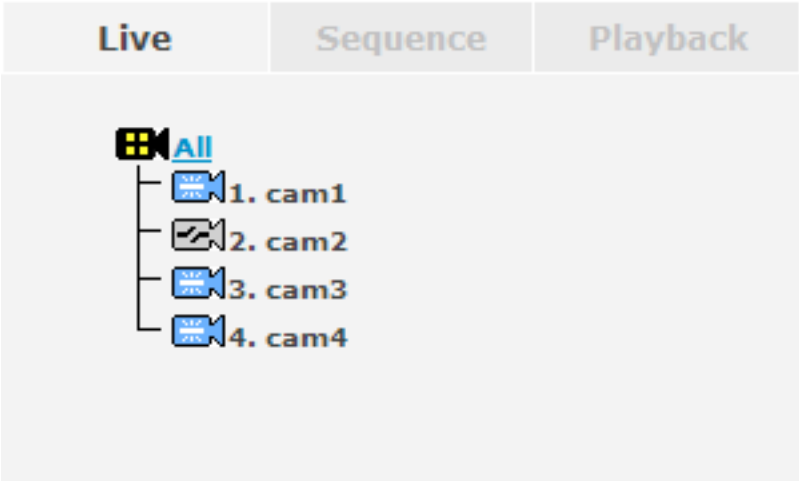
#### Retrieve camera's video stream

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

- Click “All” to display videos of all 4 channels
- Click on any camera individually to display video in single-view mode

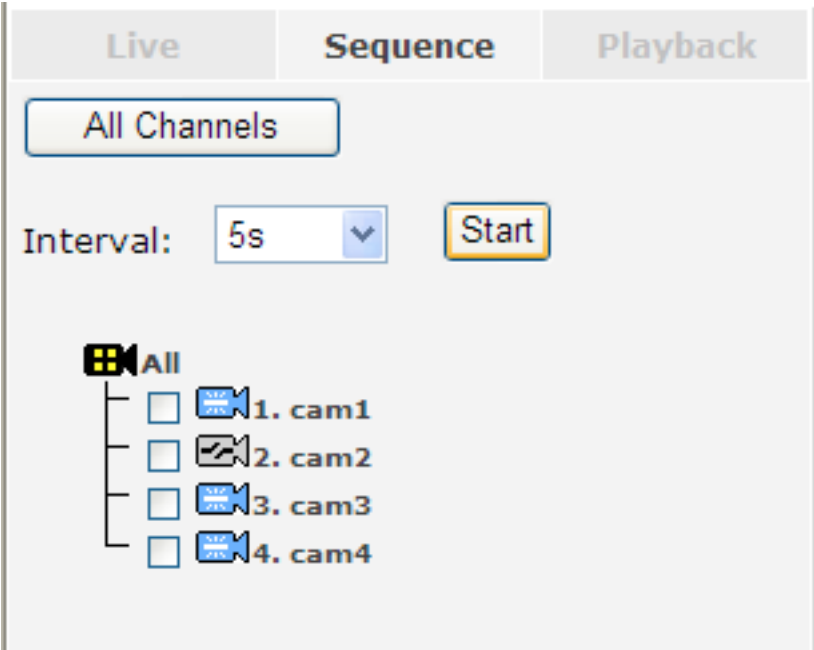
### Retrieve camera's status

The camera list can show each camera's current status. Each status is represented with different colors:

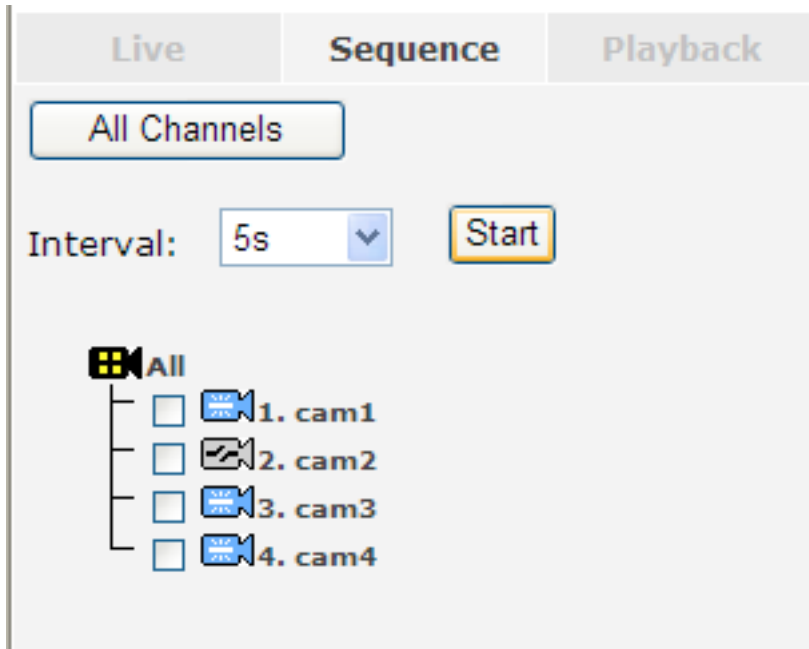


- Blue: Connected
- Gray: Disconnected
- Red: Performing event recording
- Green: Recording (manual/continuous/schedule)
- White: This channel is not configured with any camera

### Perform Sequence Viewing



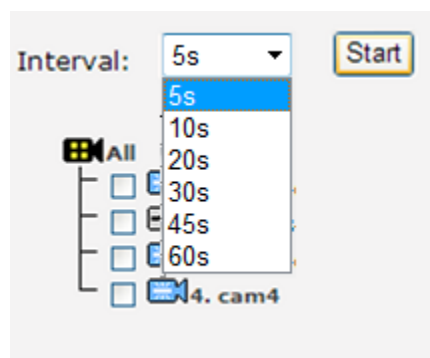
Sequence view is a function that allows you to view multiple video streams from certain cameras in sequence automatically without having to select them one by one. To perform sequence view, select "SEQ View" from the upper-left hand corner



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

Select "all" to start sequence viewing in quad view

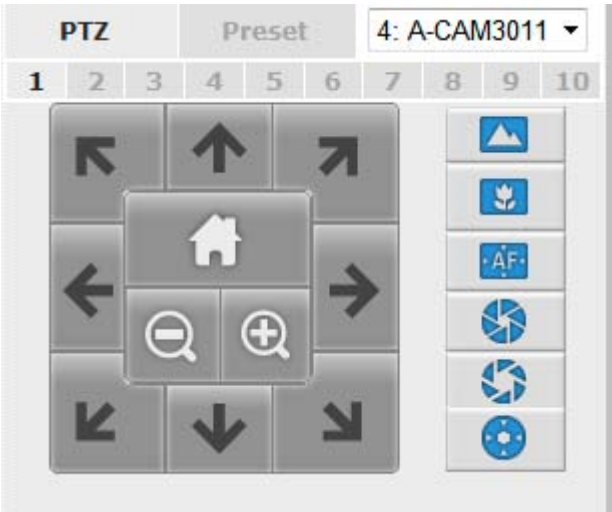
Select "camera" individually to start sequence viewing in single video view



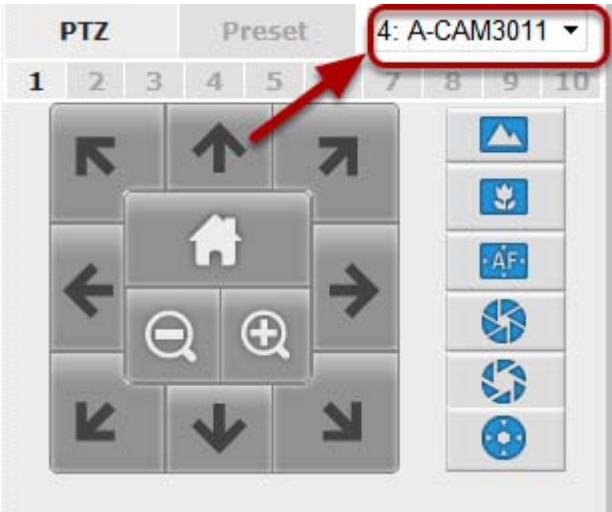
Then, select dwell interval from the drop-down menu and click "Start" to begin.



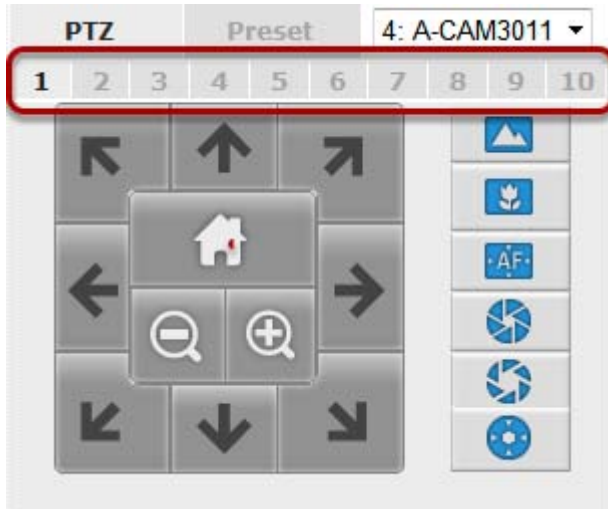
### PTZ Control



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

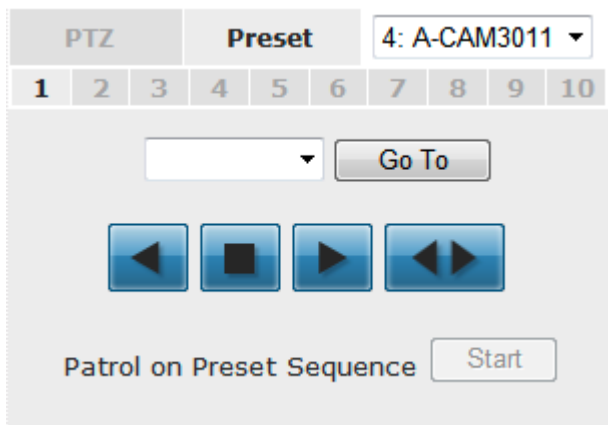


Only PTZ capable cameras will be listed in the drop-down menu



The bar highlighted above controls the moving angle. Larger number means bigger movement angle.

### Perform PTZ Preset Viewing

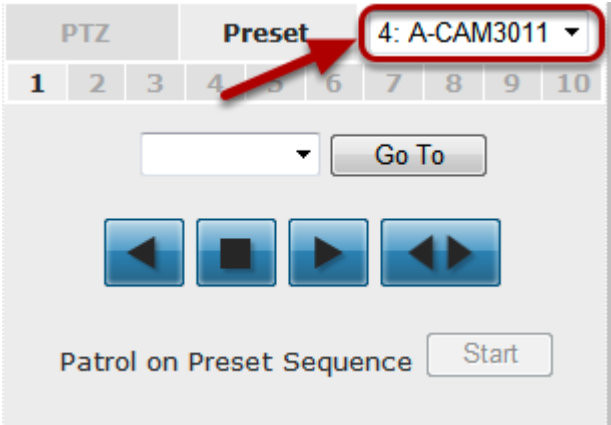


There are three functions provided in the "Preset" section:

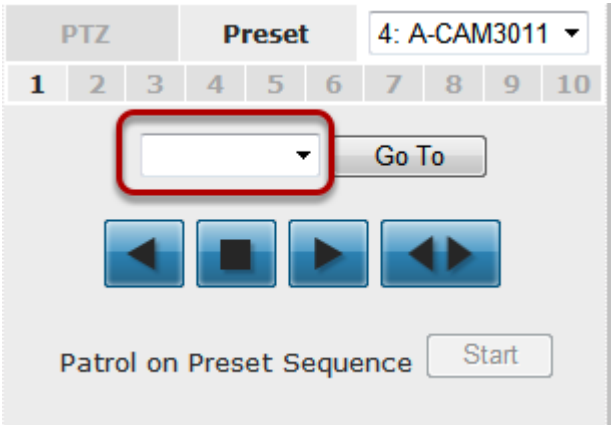
- Perform preset point viewing of a particular camera
- Auto pan a particular camera
- Perform preset point sequence viewing

*(In order to use this function, one must configure camera's preset points in "NVR Setup" >> "Channel Configurations" >> "PTZ Preset" first)*

### Preset Point Viewing

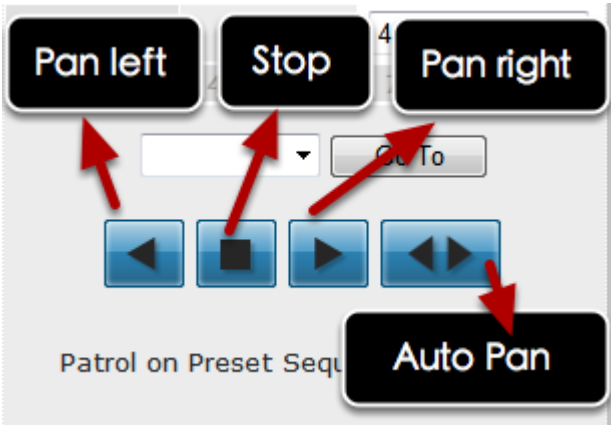


Start by selecting a PTZ camera from the drop-down list



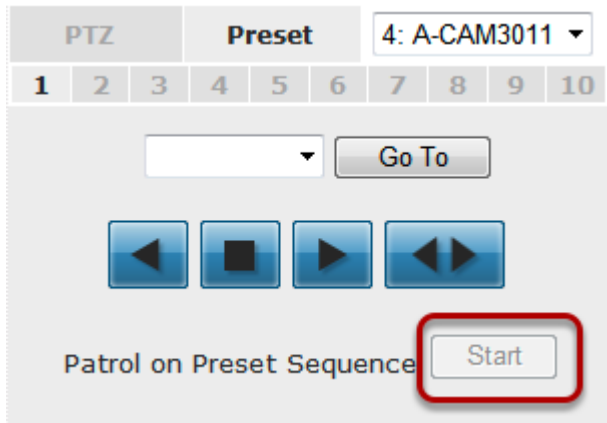
Its available PTZ preset points will be listed in the drop-down list shown below. Click "Go to" to move to the selected position.

### Auto Pan Viewing



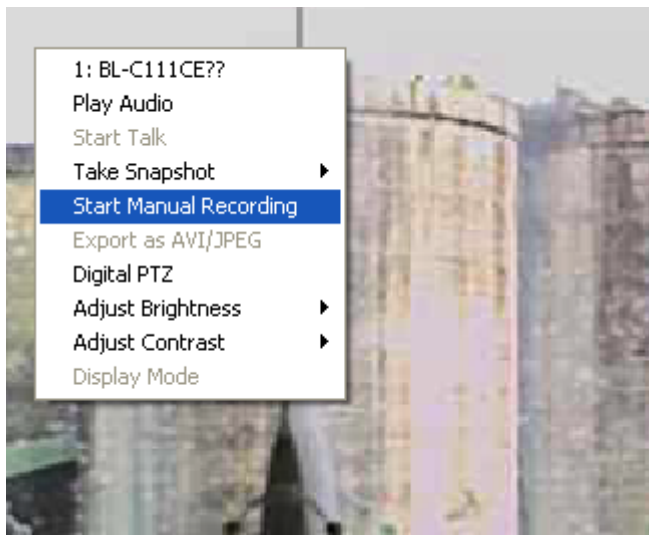
Use the Auto Pan control buttons to pan right, left and stop auto pan  
*\* Certain cameras do not support bi-directional pan movements. Use the "Auto pan" button for such cameras*

### 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"

### Live Video Controls



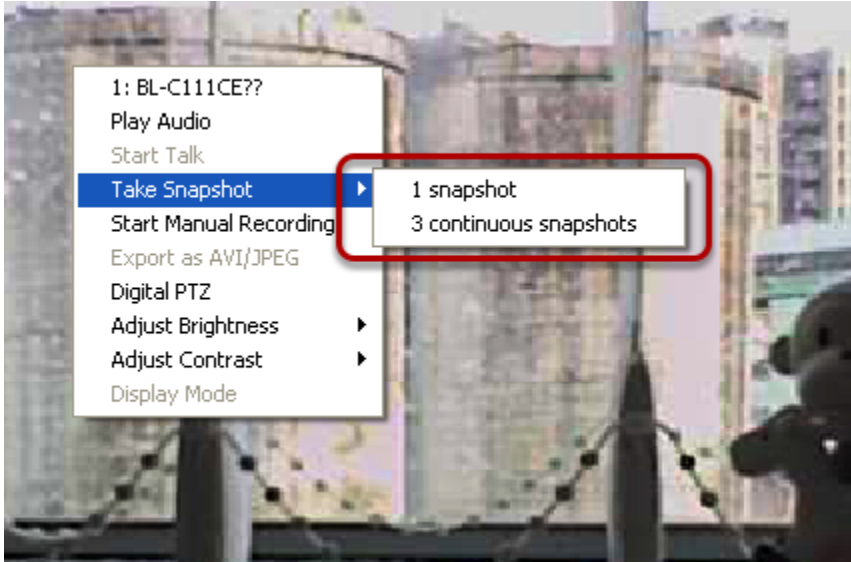
Users can perform certain functions to a live view video. They can be accessed by right clicking on a video.

### Display ratio and full screen

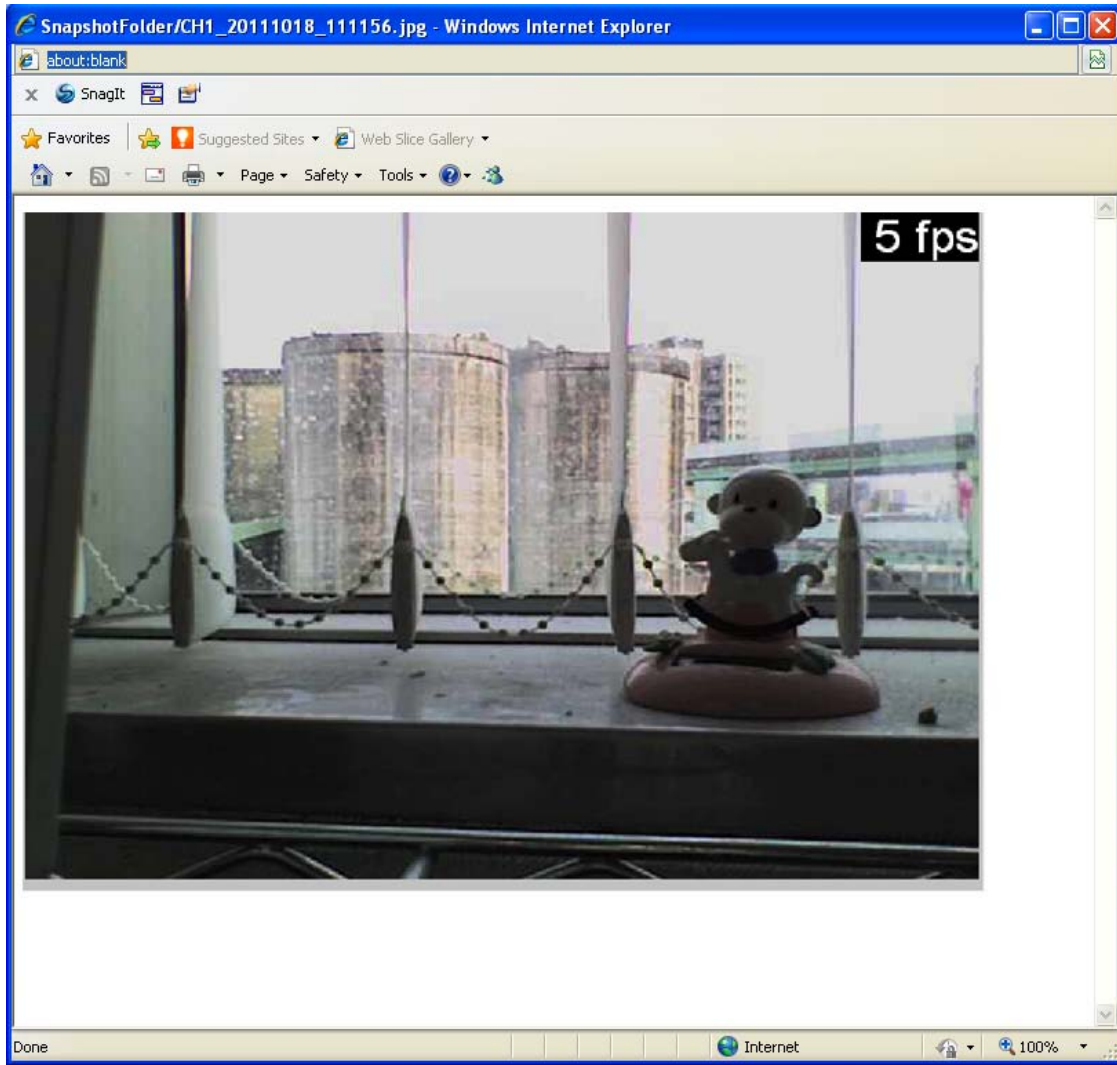


By default, the videos are set to fill the whole video window, to display its original size or ratio, use the button in the upper-right hand corner.

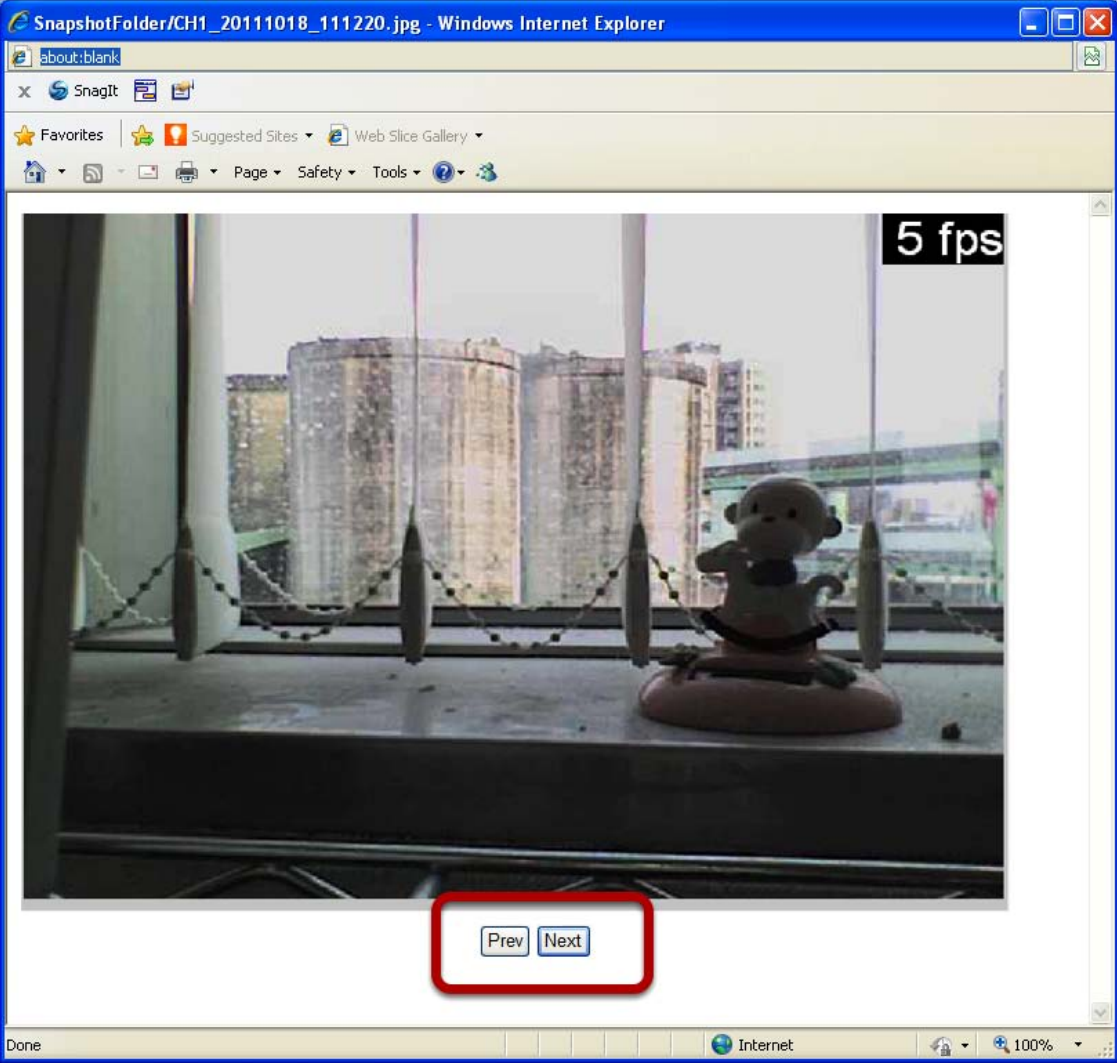
### Take a snapshot of a live video



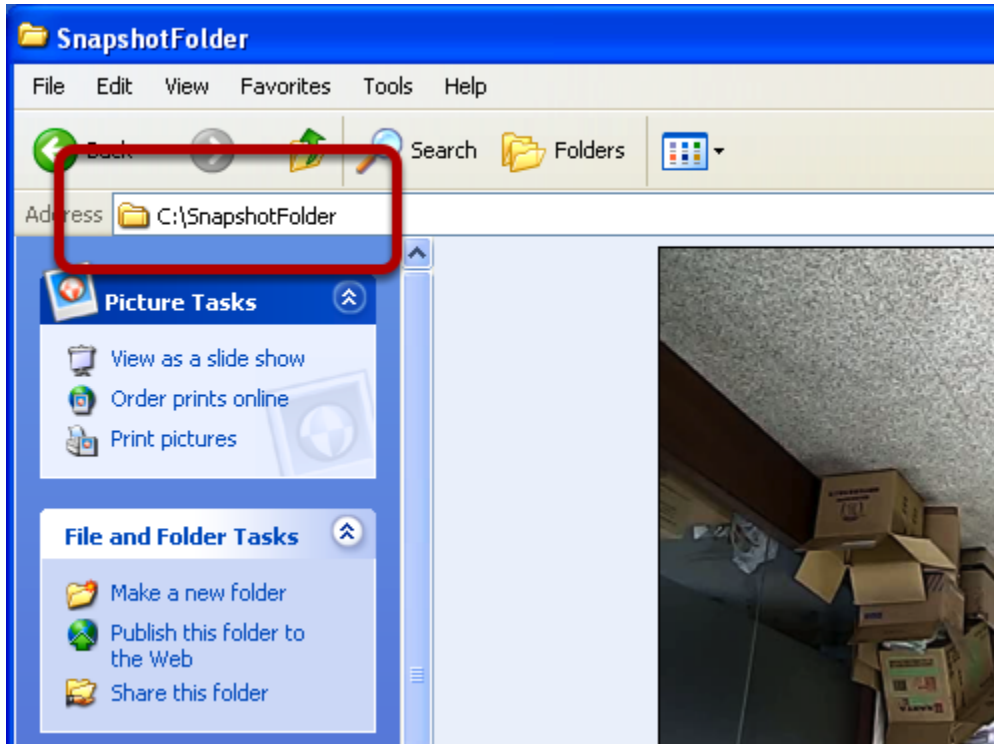
To take a snapshot of a live video, right-click on the video and select "Take Snapshot". You are given with options to take 1 snapshot or 3 continuous snapshots.



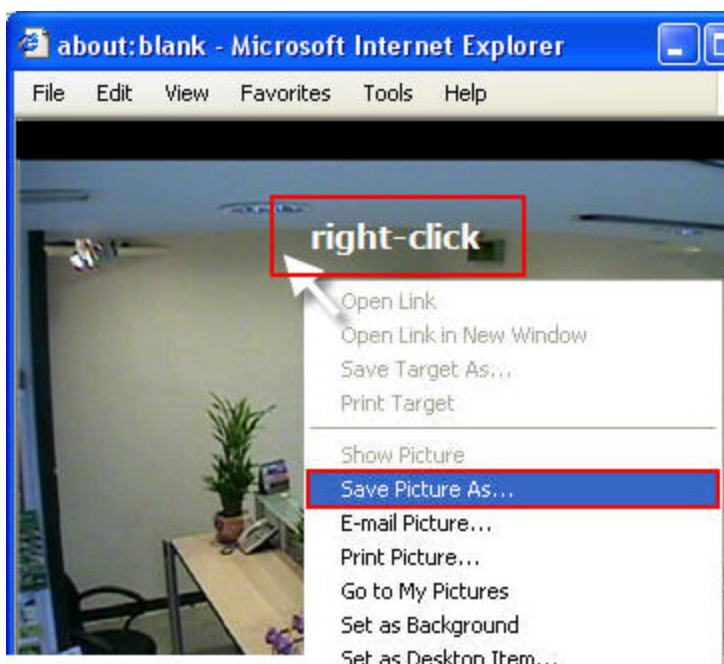
The new window displays the snapshot.



If the "3 continuous snapshots" option is chosen, the new window displays snapshots and lets you view them individually by using the "Prev", "Next" buttons shown above.

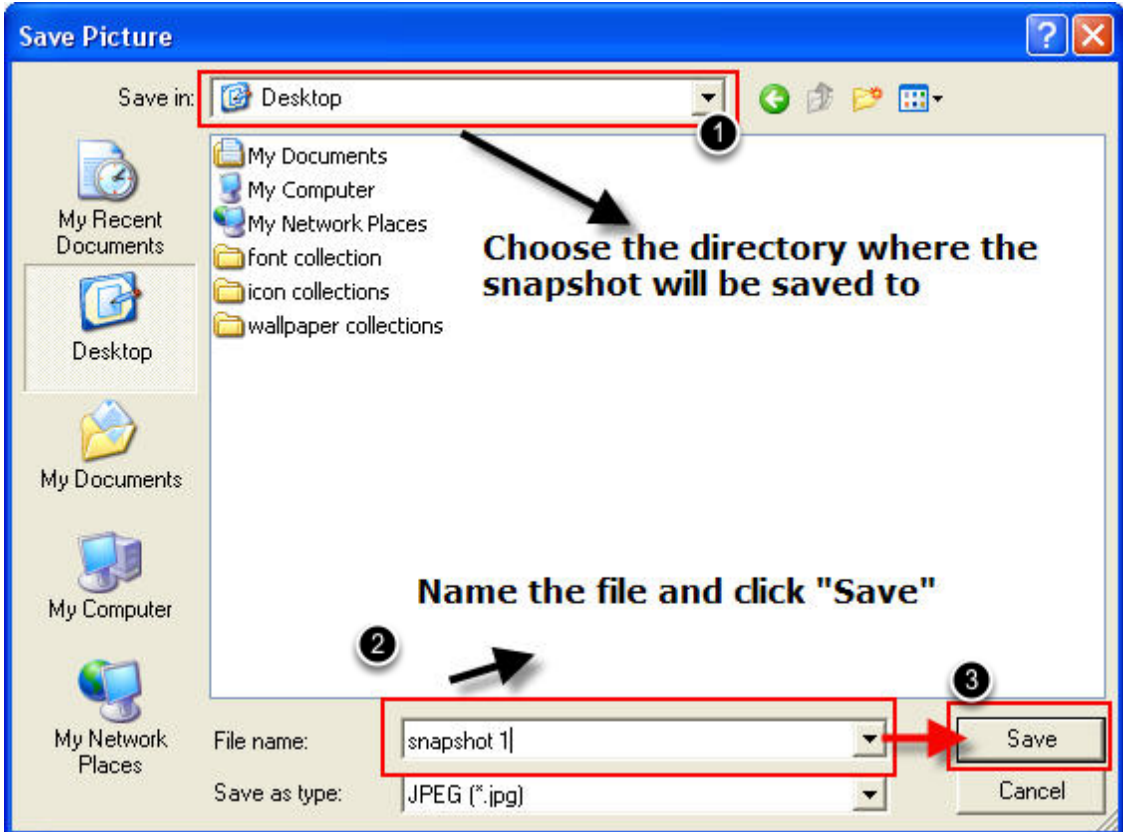


However, as soon as a snapshot selection is made, the snapshots are automatically saved to `x:\SnapshotFolder` ("x" represents the partition where Windows is installed, e.g.: `C:\`)



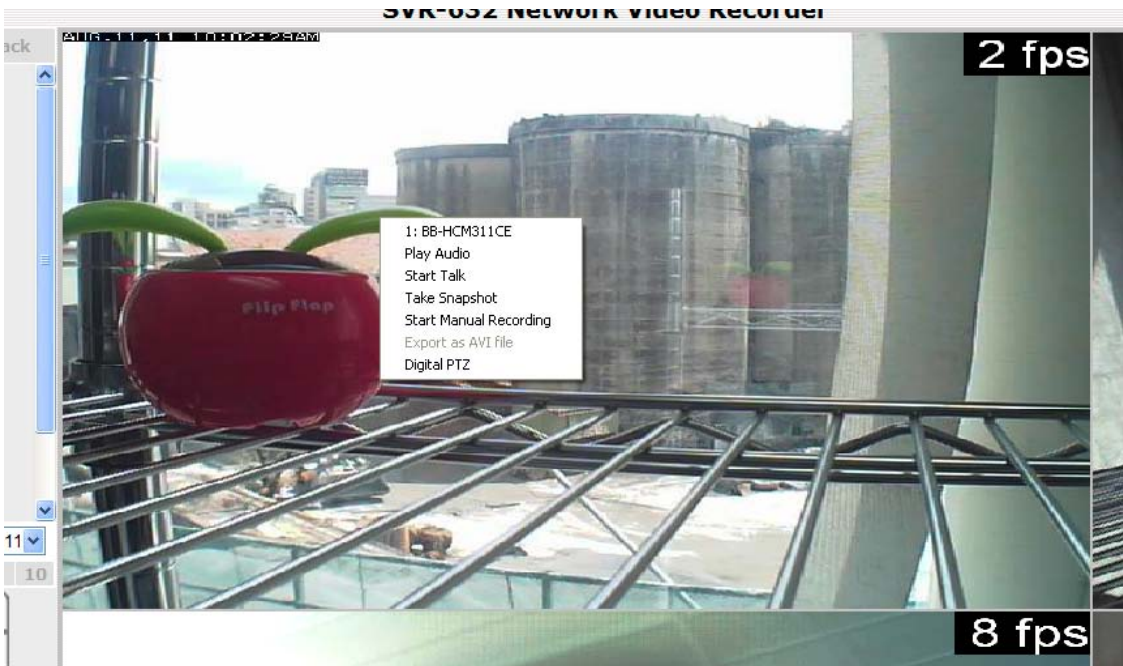
You can right-click anywhere on the image and select "Save Picture As..." to save the images somewhere else if you wish.



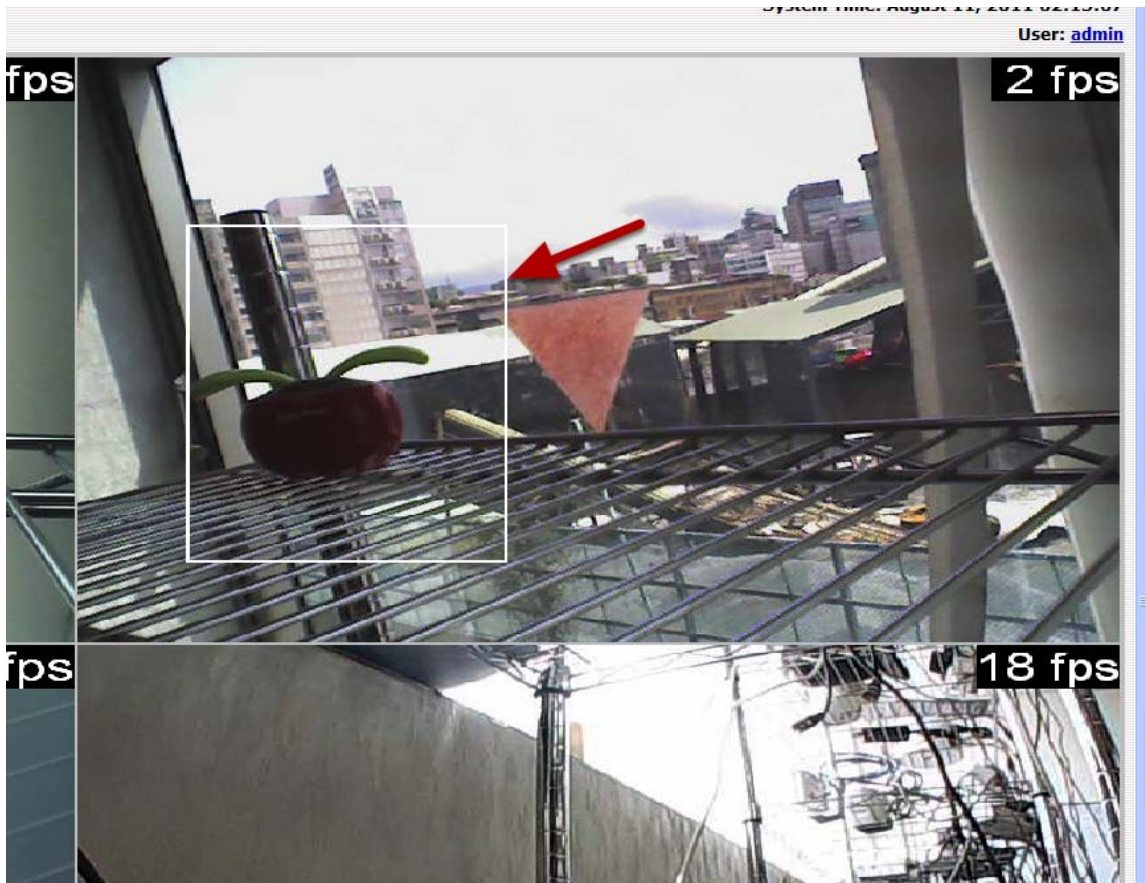


A dialog should be displayed that allows you to choose a directory/folder of where the snapshot will be saved to.

### Perform Digital PTZ



To perform digital PTZ on a particular channel, right-click anywhere on its video and select "Digital PTZ".

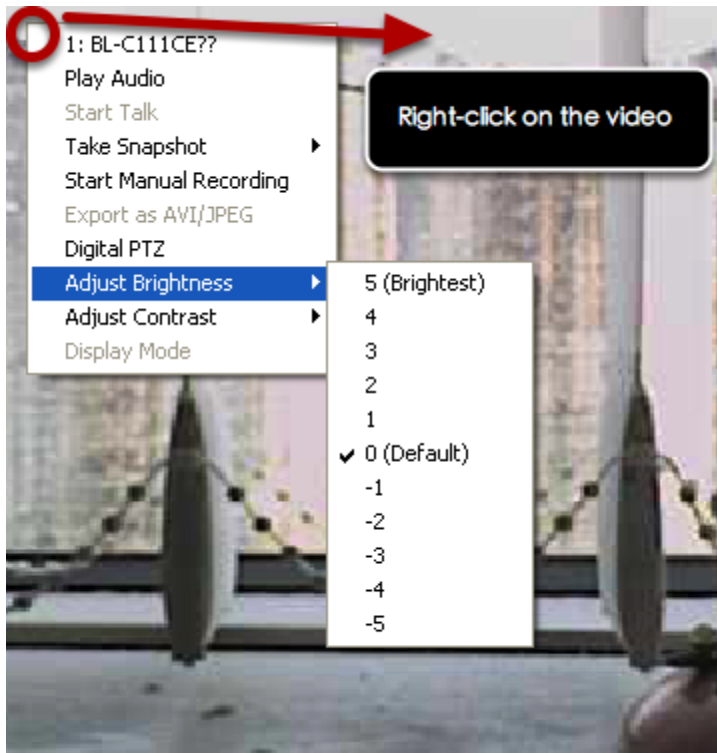


Next, hold the mouse left button and draw a square on the video to specify the zoom in area



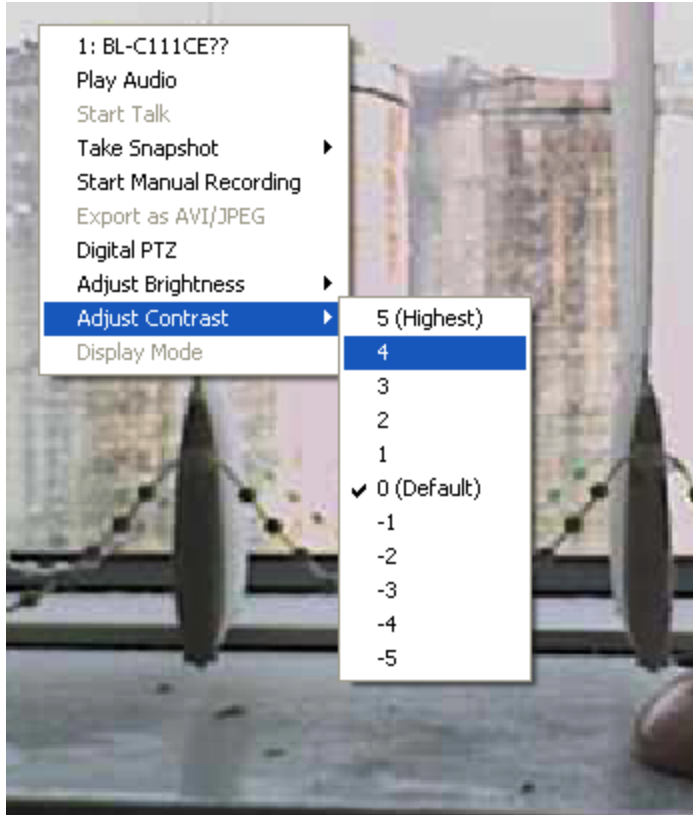
Once the image is digitally zoomed in, use the mouse scroll button to further zoom on or zoom out the image. Hold and left-click on the image and move the mouse to move the zoomed in video.

### Adjust Brightness for the Live Video



You are able to adjust brightness of the live video from the right-click menu.

## Adjust Contrast for the Live Video



Same thing as the brightness, you can set the contrast for the live video from the right-click menu as well.

## 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.

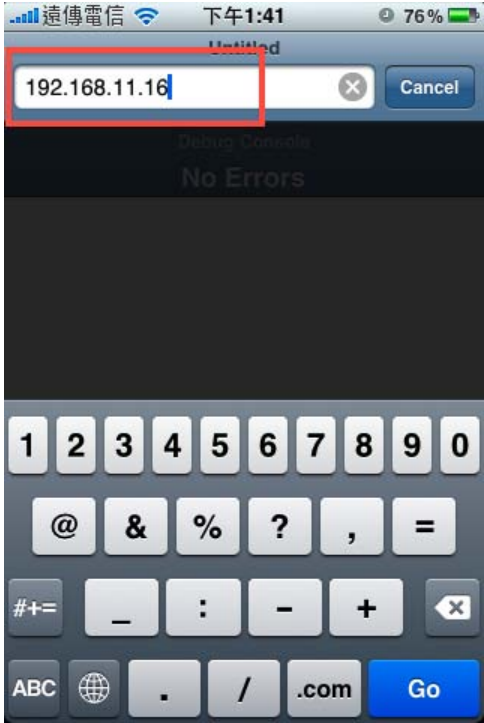
## Live View through iPhone Safari Browser



You can use iPhone and perform single channel live view to the NVR by using its Safari browser. To be able to view the live video through the Safari browser, make sure "javascript" is on under "Settings" >> "Safari" >> "Javascript"



Once Javascript is enabled, click the "Home" button on the iPhone to go back to the home screen and open the Safari browser



Type in the IP address of the NVR in the address bar



You should be prompted to enter the username and password to access the NVR



Upon successful login, you should see the live view video of the first channel



Click on the "Channel" drop-down menu to select other cameras





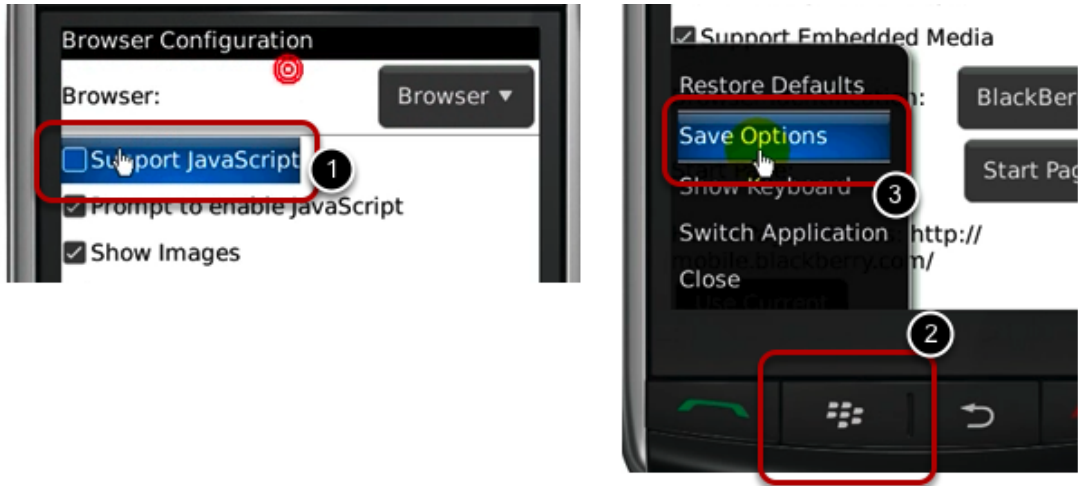
If a PTZ camera is selected, the corresponding control buttons will display (control PT only)

*\* Please note that this function is camera dependent and is not available to all cameras. Certain cameras do not allow adjusting image size and the selection "Auto" will be used.*

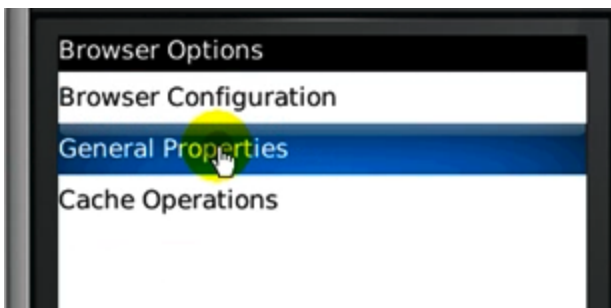
### Live View through Blackberry Phones



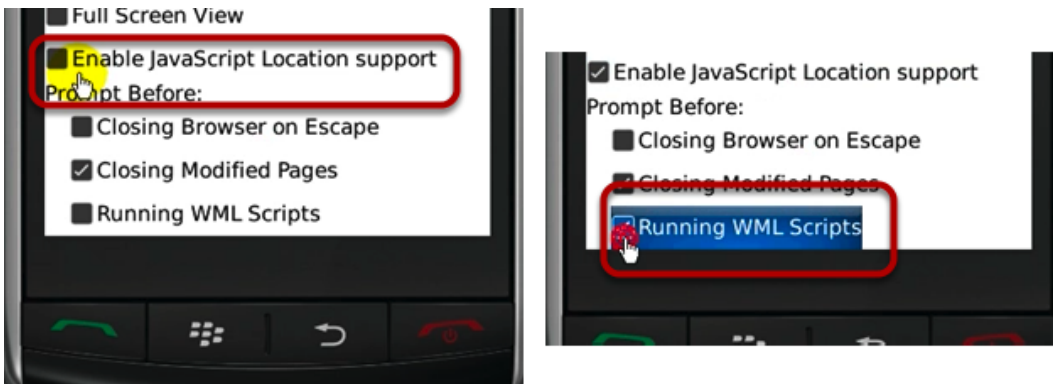
You can use Blackberry and perform single channel live view to the NVR by using its Safari browser. To be able to view the live video through its browser, make sure "javascript" is enabled under "Browser" >> "Menu button" >> "Options" >> "Browser Configuration"



Enable the "Support Javascript" option and click the menu button and click "Save Options"



Go to "General Properties"



Make sure two options illustrated above are enabled



Press the menu button and click the "Save Options" to save settings



Press the button highlighted above to go back to the browser



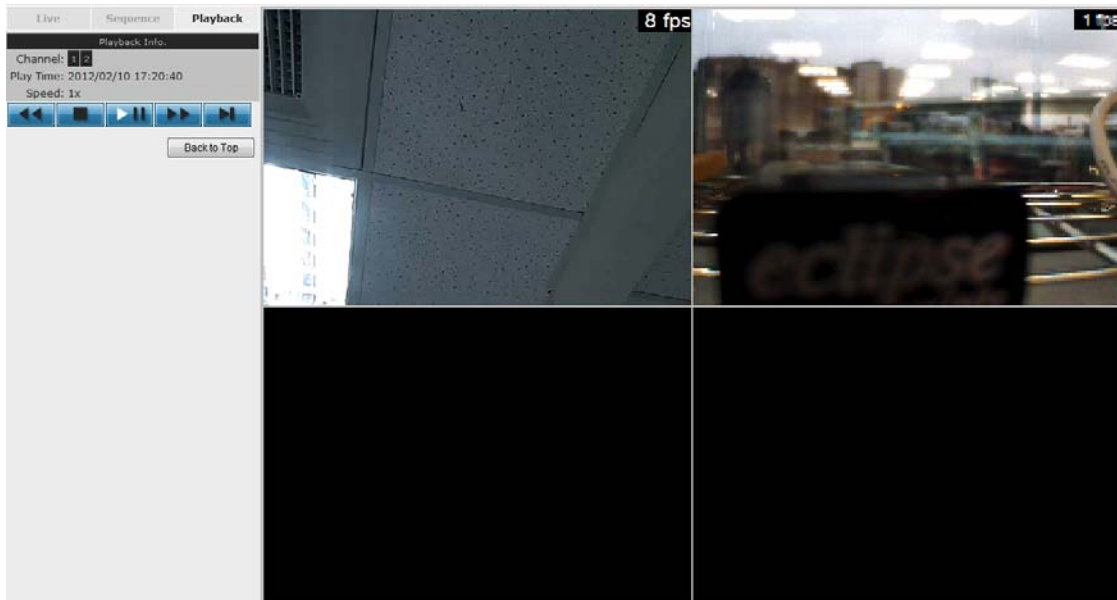
Type in the IP address of the NVR in the address bar



You should be prompted to enter its username and password for access

## Playback (Web Interface)

### 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.

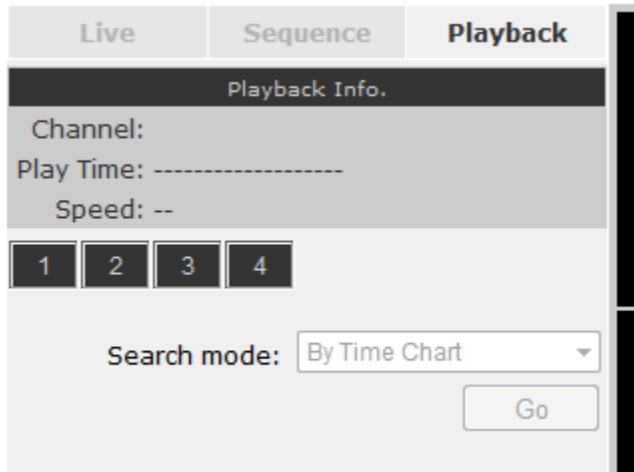
Playback video can be viewed in full screen and snapshots can be taken and saved during a video playback.

### Methods to Search Playback Videos

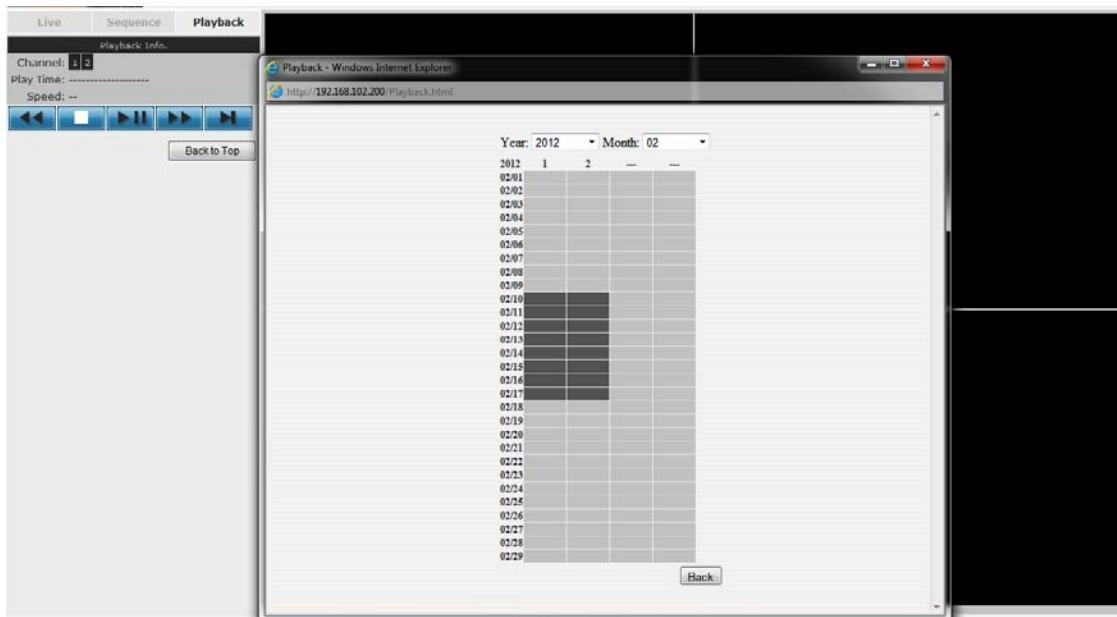
The NVR offers three methods to quickly help users find videos that were previously recorded:

- 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*
- Most Recent Events: *Displays the most recent 15 events*
- Play by start time: *Enter a specific time a video was recorded to start playing back the video*

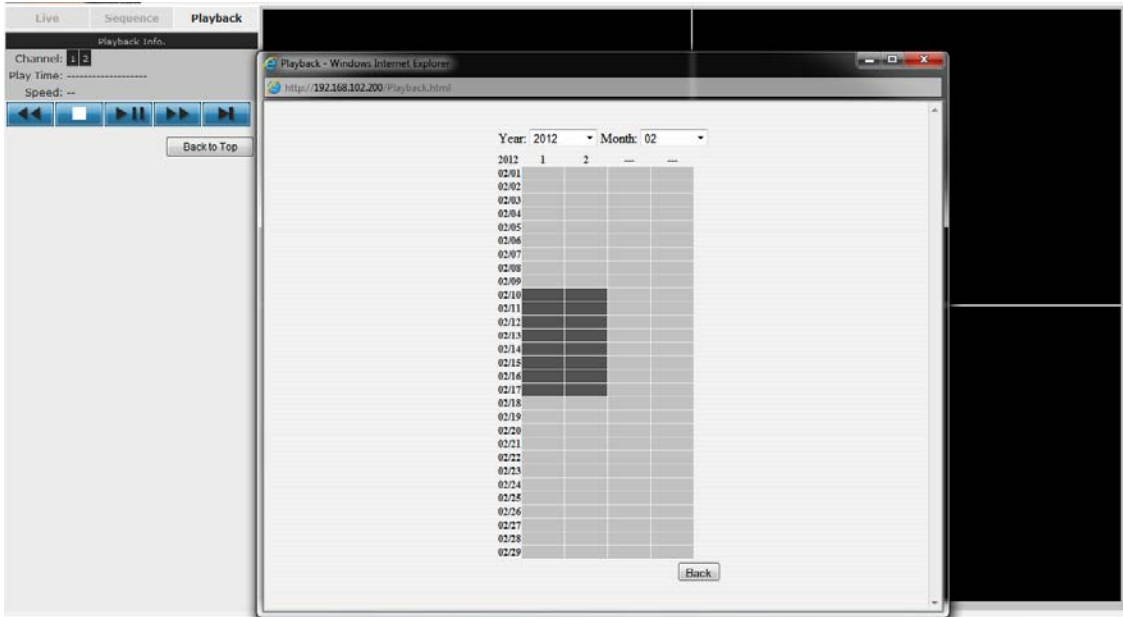
## Search by time chart



1. Start by selecting which channel(s) you would like to perform a search on.
  2. Select "Search by time chart" from the "Search Method" drop-down list and click "Go" to start the search
- \* Selected channels will be marked in red



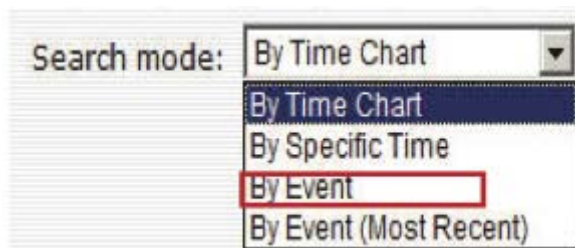
Results will then be displayed in a new dialog with a "Month/Channel" table and boxes marked in dark gray represent videos found in those dates. (\* Videos from other cameras that are recorded on the same date will also be displayed)



Clicking on a cell box marked with gray will take you to the "day" view of the selected month. Repeating the same step will eventually take you to the "second" view (5sec per cell box). Right-click anywhere or the "Back" button on the table will take you back to the previous view.

Click on the play button at anytime will start playing videos from the beginning of the current time view (ex. if the table is in the "month" view, click play will start playing from the first available clip of that month)

### Search by event



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

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

The screenshot displays a software interface titled "Playback Info." at the top. Below the title, there are fields for "Channel:" (set to 1 and 2), "Play Time:" (indicated by a dashed line), and "Speed:" (set to --). A row of five playback control buttons (Previous, Stop, Play/Pause, Next, and Fast Forward) is visible. The main area contains a list of 13 search results, each starting with a small icon and followed by the text "CH2 : 2012/02/14" and a specific timestamp. The timestamps range from 18:38:22 to 19:35:26. At the bottom of the interface, there is a search filter section with a date dropdown set to "February 14, 2012" and a time dropdown set to "18 : 38 : 22". Below these are two buttons: "Search" and "Back to Top".

Playback Info.

Channel: 1 2

Play Time: -----

Speed: --

⏮ ⏪ ⏩ ⏭

- ⊗ [CH2 : 2012/02/14 18:38:22](#)
- ⊗ [CH2 : 2012/02/14 18:39:16](#)
- ⊗ [CH2 : 2012/02/14 18:39:37](#)
- ⊗ [CH2 : 2012/02/14 19:05:50](#)
- ⊗ [CH2 : 2012/02/14 19:07:40](#)
- ⊗ [CH2 : 2012/02/14 19:28:18](#)
- ⊗ [CH2 : 2012/02/14 19:28:53](#)
- ⊗ [CH2 : 2012/02/14 19:30:04](#)
- ⊗ [CH2 : 2012/02/14 19:30:56](#)
- ⊗ [CH2 : 2012/02/14 19:31:11](#)
- ⊗ [CH2 : 2012/02/14 19:31:34](#)
- ⊗ [CH2 : 2012/02/14 19:31:49](#)
- ⊗ [CH2 : 2012/02/14 19:32:21](#)
- ⊗ [CH2 : 2012/02/14 19:34:17](#)
- ⊗ [CH2 : 2012/02/14 19:35:26](#)

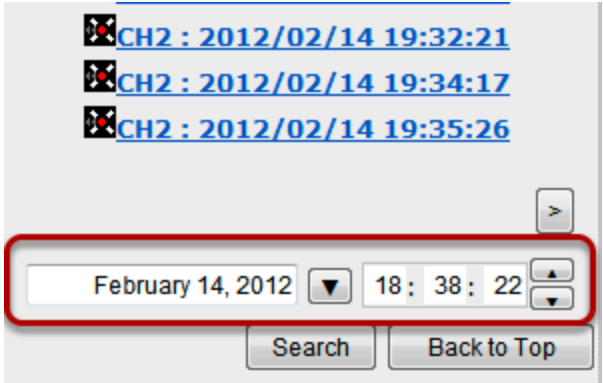
>

February 14, 2012 ▼ 18 : 38 : 22 ▲ ▼

Search Back to Top

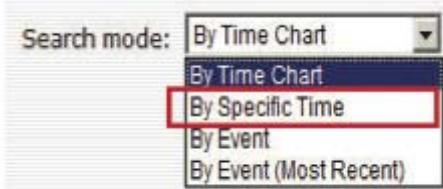
Results will then be listed like what is shown below (displays the oldest record top down). Click on a particular result to start the playback. (\* You can click "Next Search" to display the next 15 results.)





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**

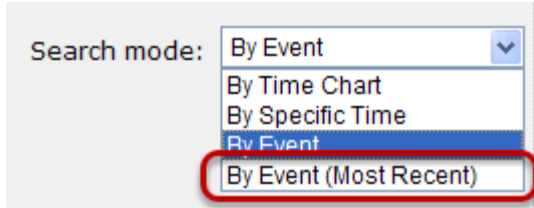


If you know when a recording was taken place, you may choose the "Play by start time" from the "Search Method" drop-down list



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

## Search by event (Most Recent)

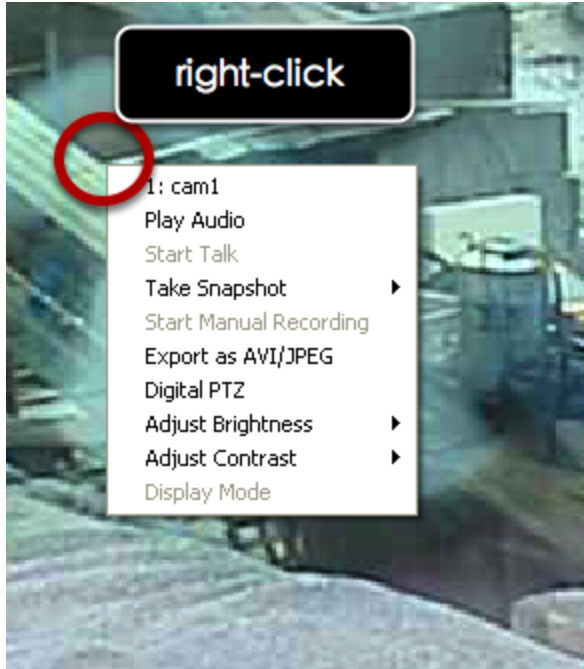


This function quickly displays the most recent event recordings from the selected channels, displaying the most recent result top down.



You may click "Update" to update the list to display the most recent results.

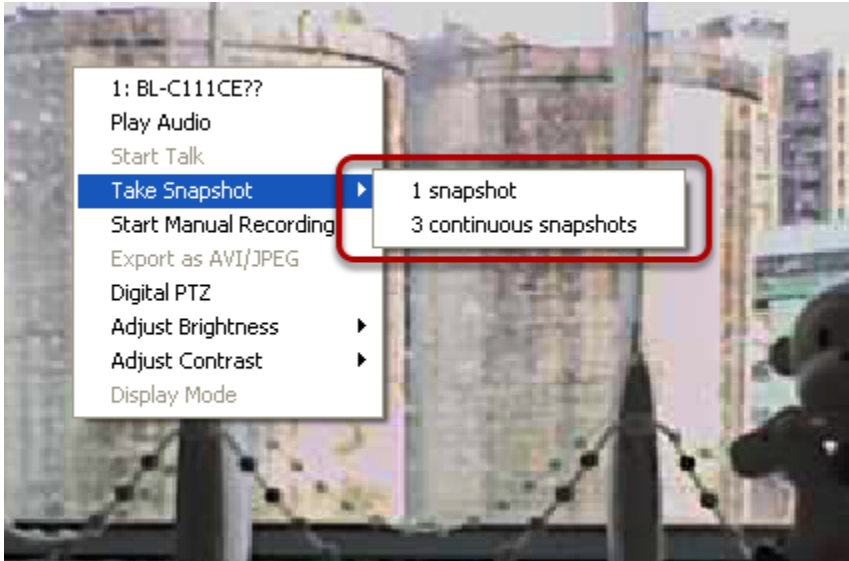
## Certain functions you can perform to the playback video



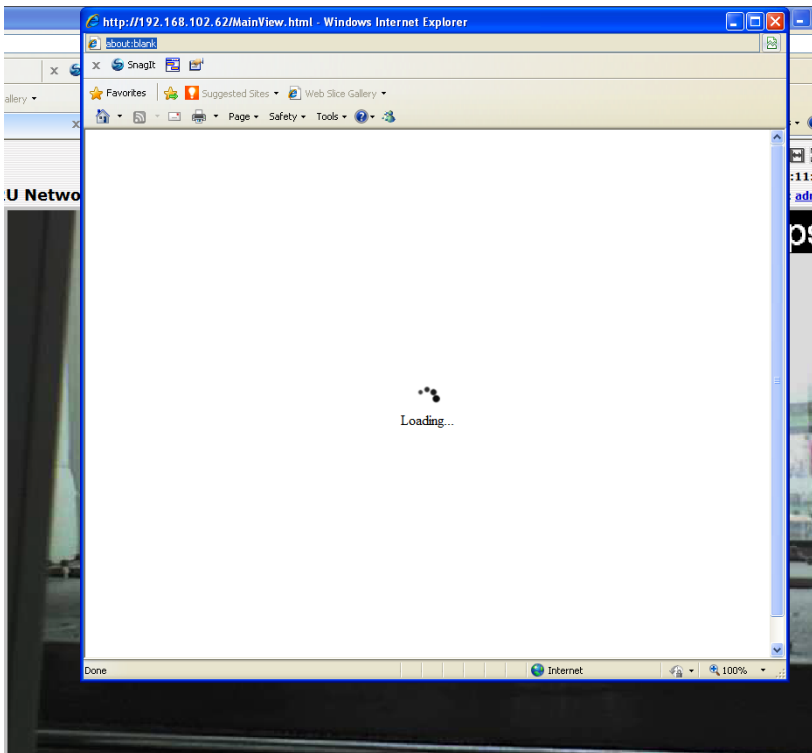
You can do the followings by right clicking on the playback video:

1. Play Audio
2. Snapshot
3. Export as AVI file
4. Digital PTZ
5. Adjust Brightness
6. Adjust Contrast

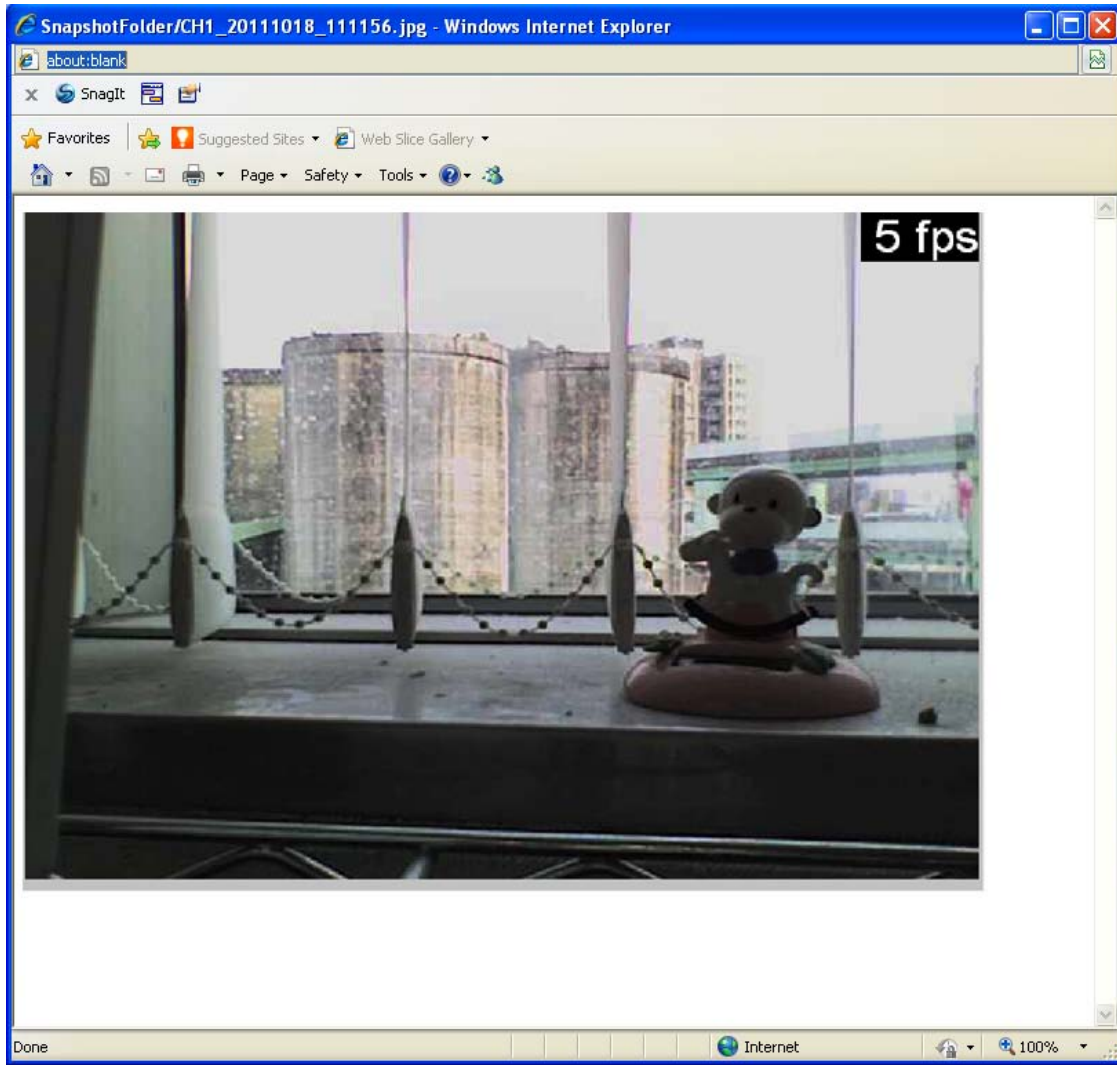
## Take a snapshot of a playback video



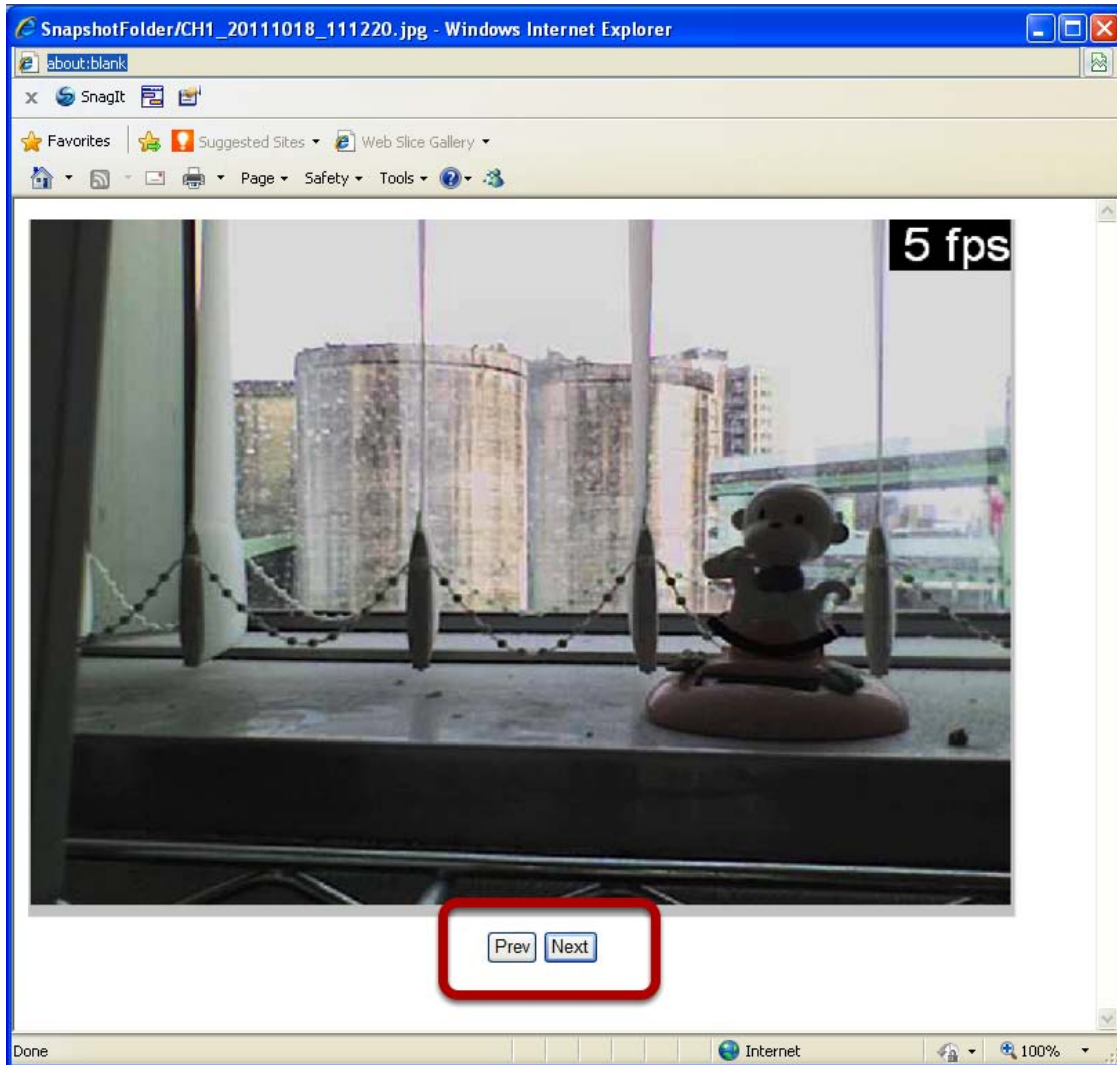
To take a snapshot, right-click on the video and select "Take Snapshot". You are given with options to take 1 snapshot or 3 continuous snapshots.



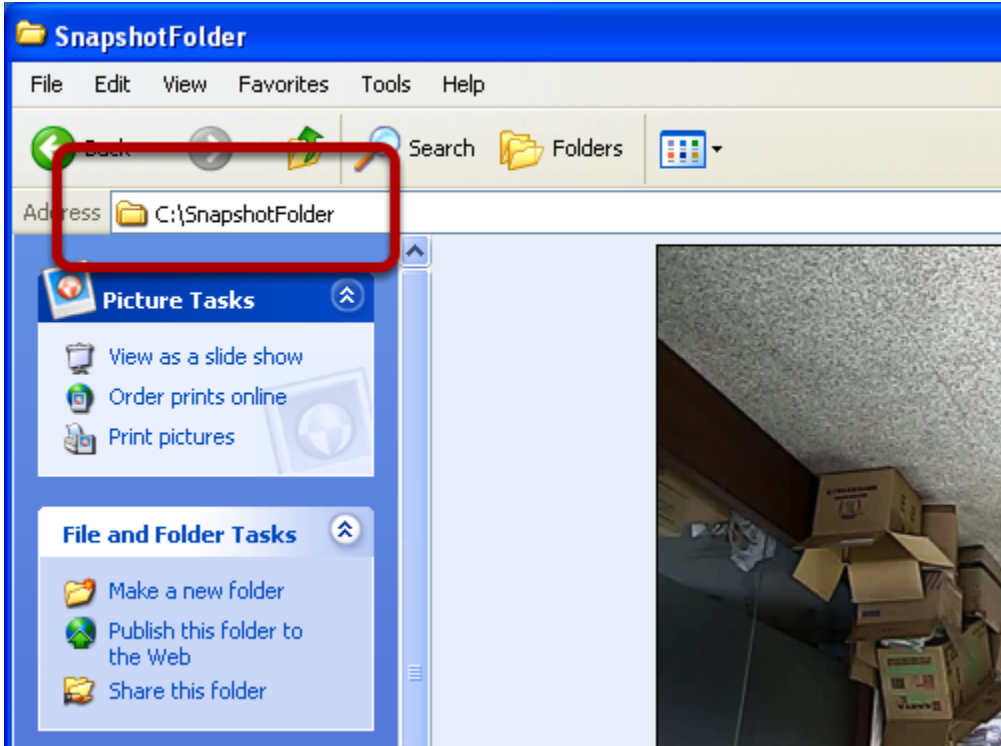
A new window should display and load the snapshot image.



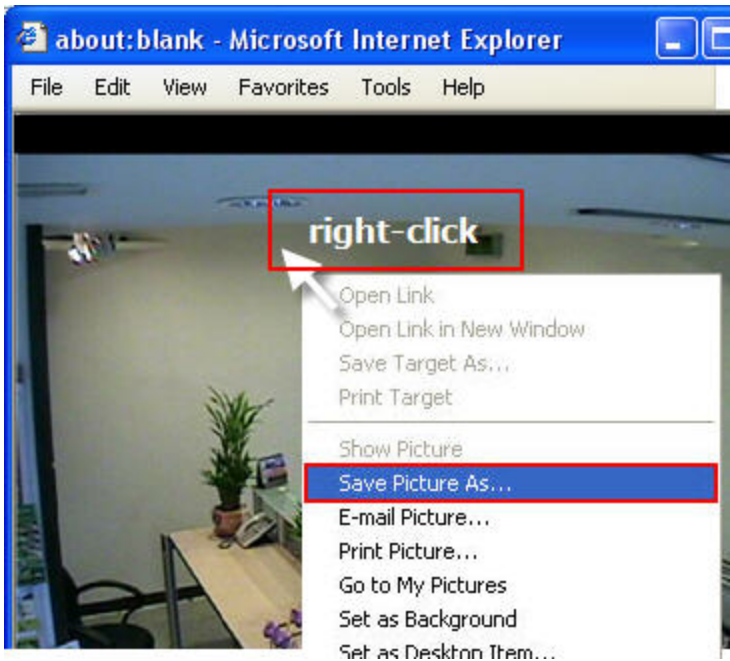
The new window displays the snapshot.



If the "3 continuous snapshots" option is chosen, the new window displays snapshots and lets you view them individually by using the "Prev", "Next" buttons shown above.

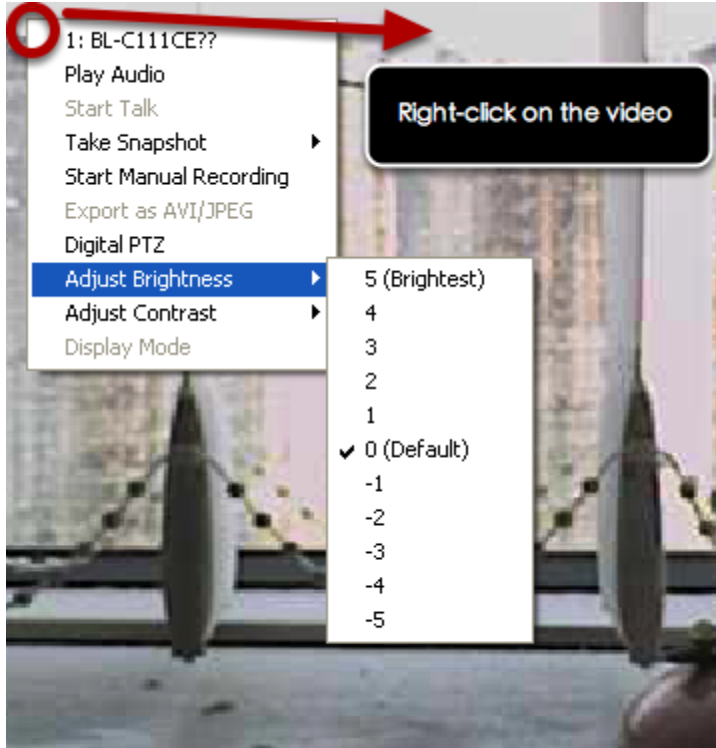


However, as soon as a snapshot selection is made, the snapshots are automatically saved to x:\SnapshotFolder ("x" represents the partition where Windows is installed, e.g.: C:\)



You can right-click anywhere on the image and select "Save Picture As..." to save the images somewhere else if you wish.

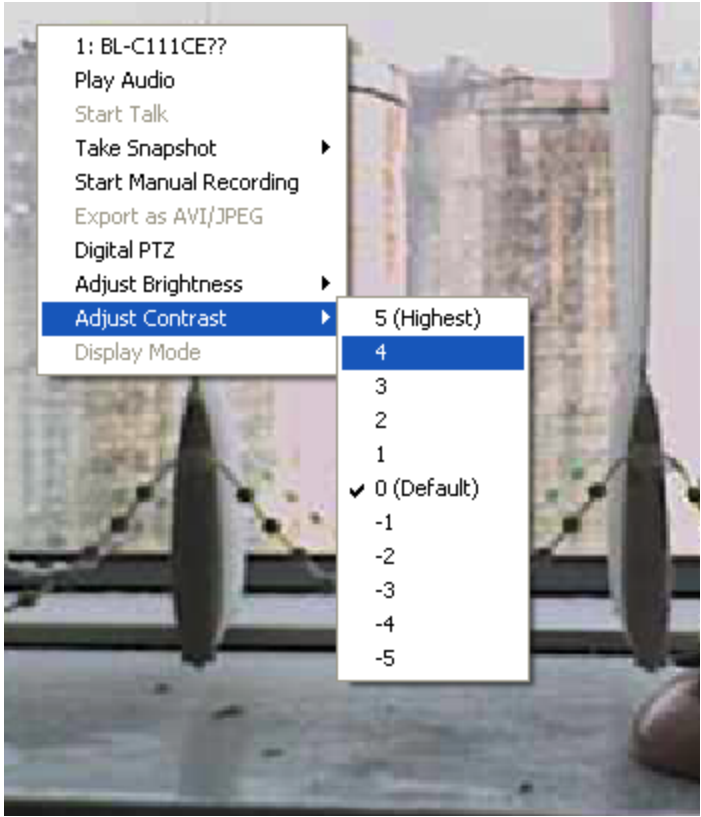
## Adjust Brightness for the Playback Video



You are able to adjust brightness of the playback video from the right-click menu.

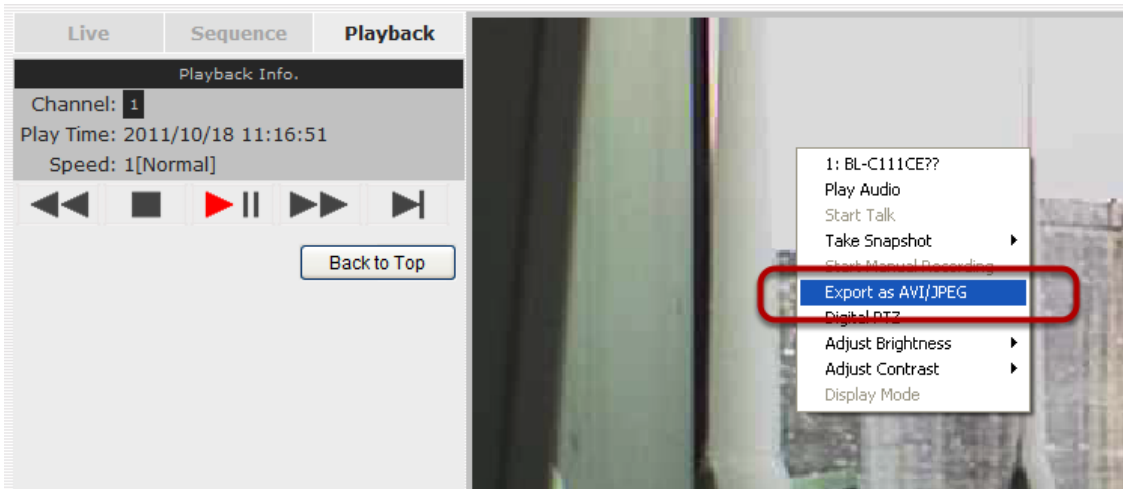


### Adjust Contrast for the Playback Video



Same thing as the brightness, you can set the contrast for the playback video from the right-click menu as well.

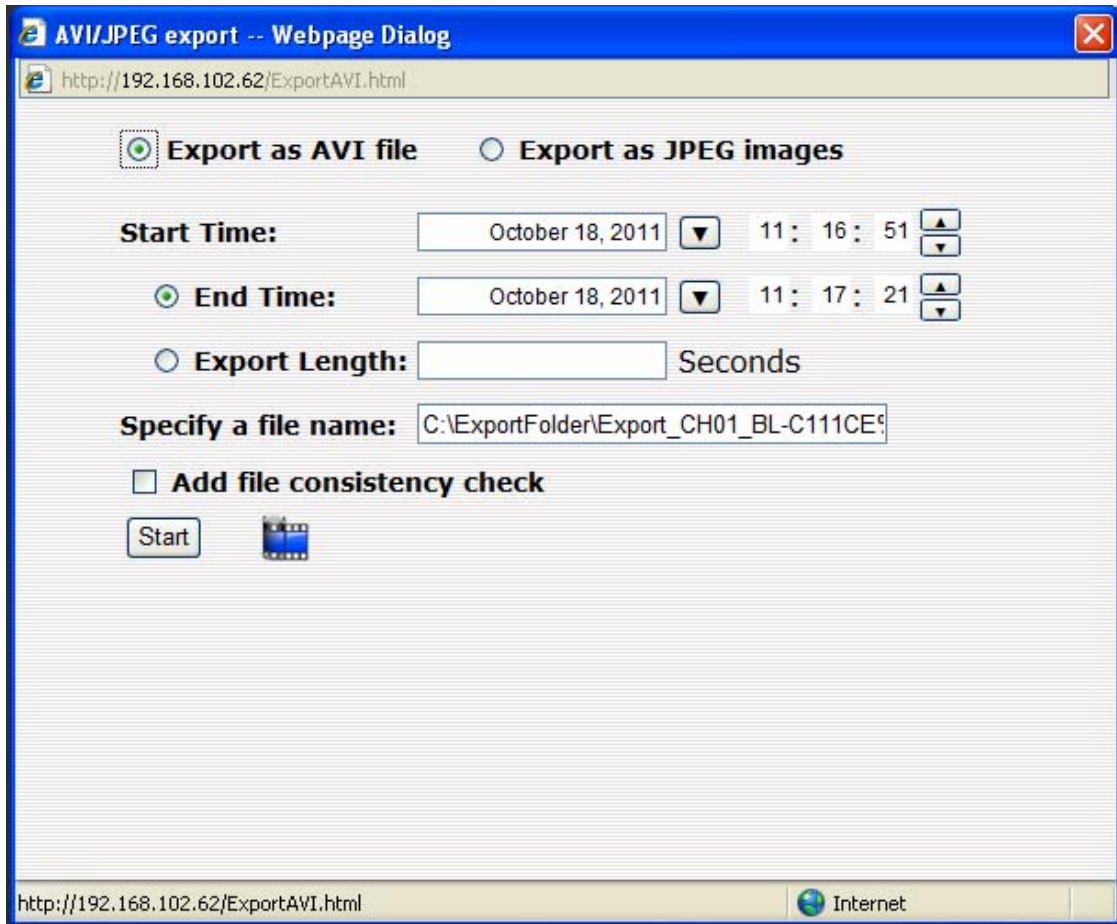
### Export Playback Videos to AVI Files



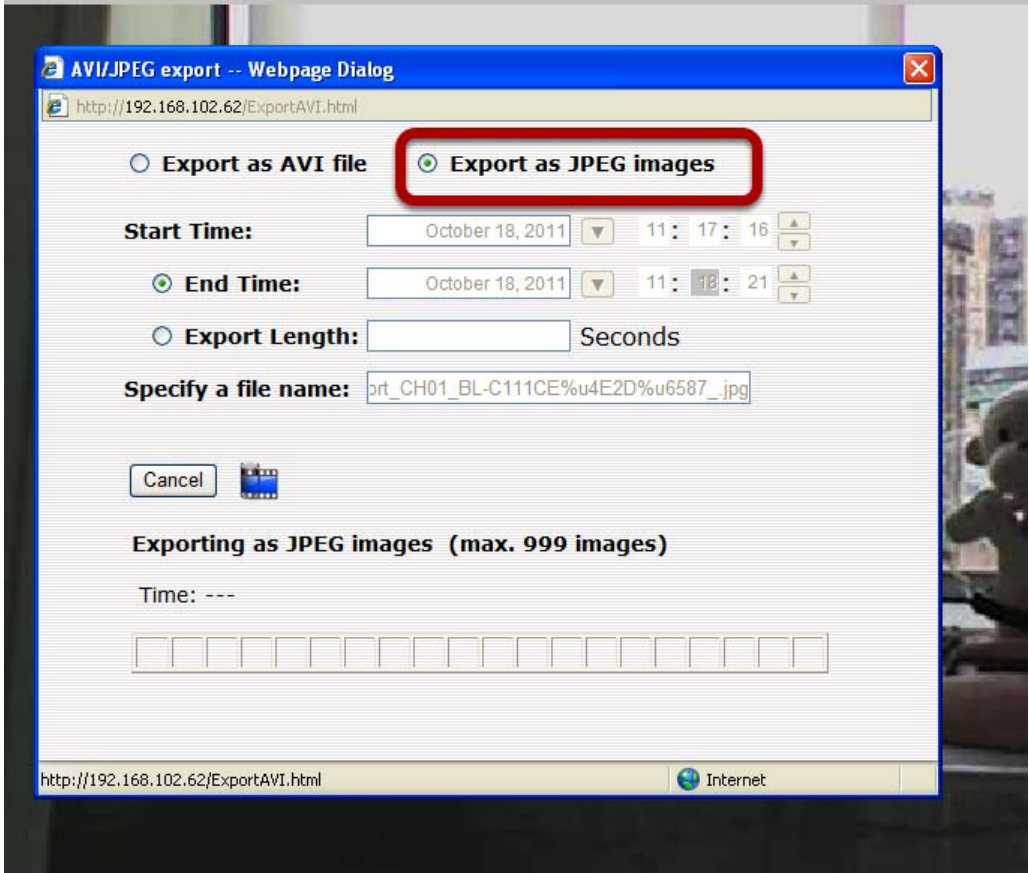
User can export the recorded playback videos stored on the NVR to a local computer and save them in AVI file format. The files can then be

played on the PC by a 3rd party media player such as VLC player or Windows Media player.

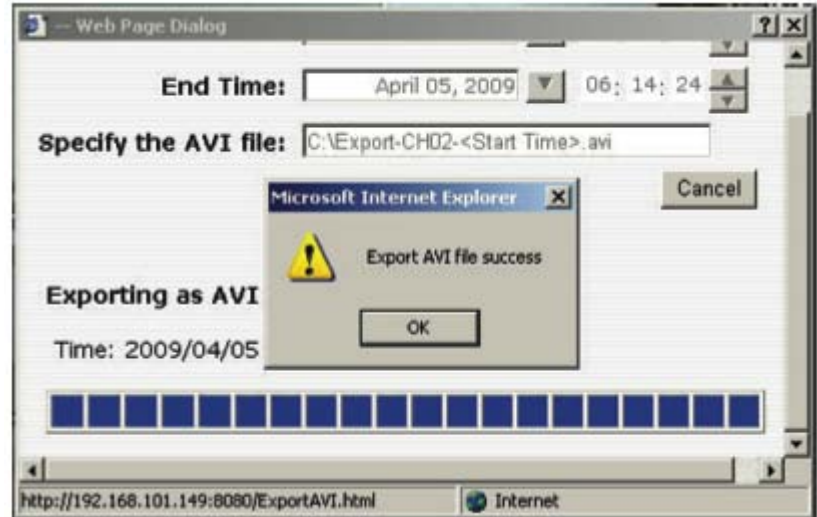
Once you locate the recorded videos with steps described in the previous section, select "Export as AVI file"



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

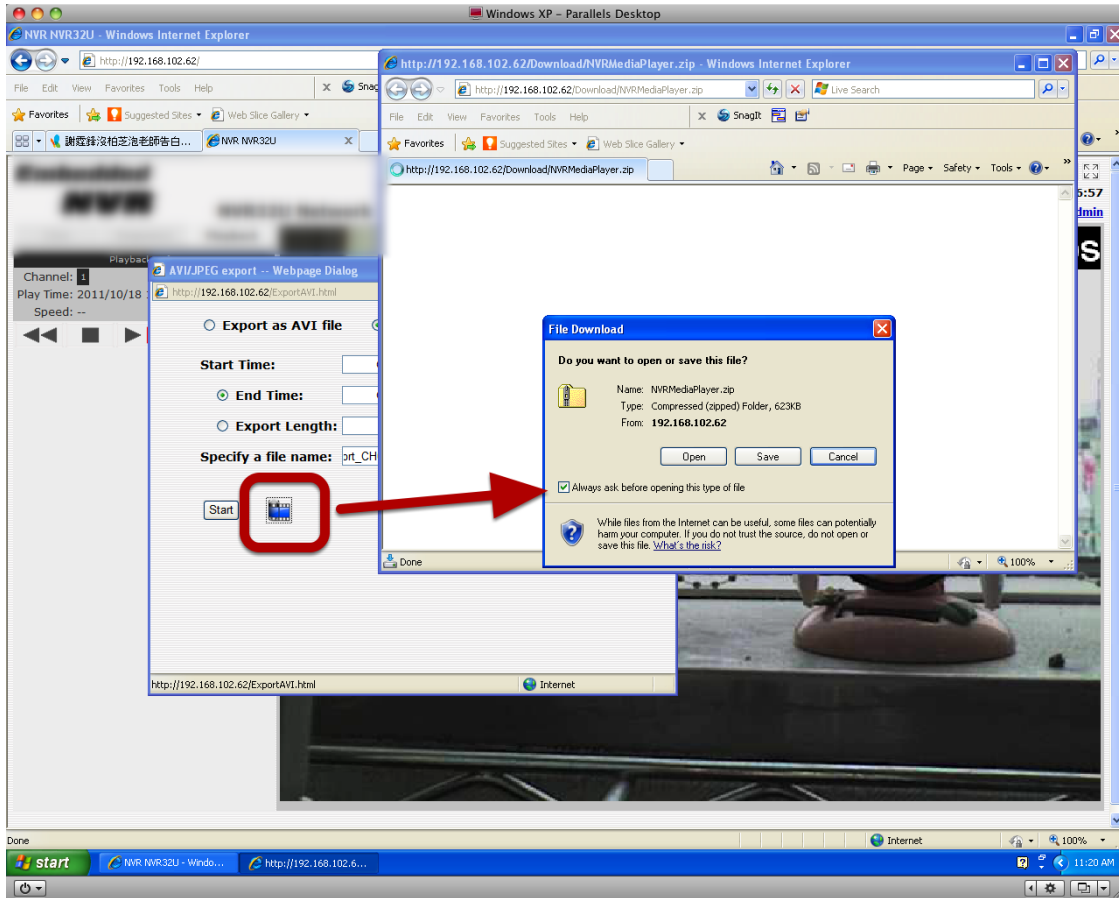


You can alternatively choose to export the recorded video to JPEG images by choosing the "Export as JPEG images" option.

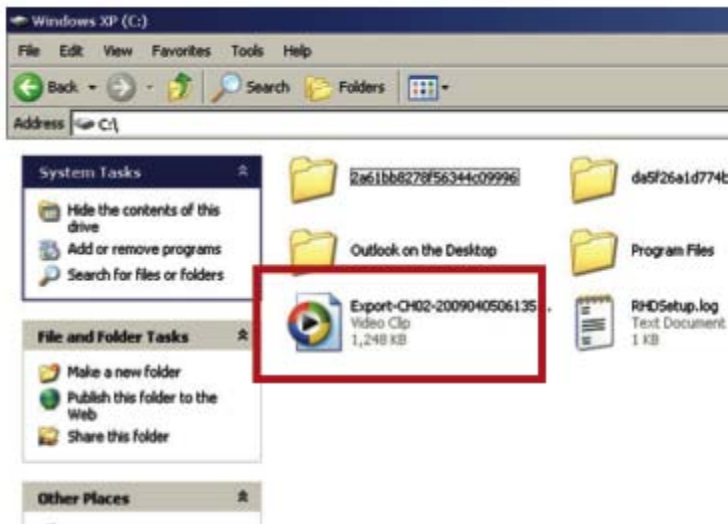


Specify the Start time/End time (or export length) and click "Start" to begin exporting.

You will be notified once the process is completed successfully



The best way to view the exported video or JPEG images is to use the NVR media player, which can be obtained from the same dialog window. Simply click on the icon at the bottom (highlighted above), and a message box should appear to let you open the media player directly, or save it to the local hard drive for later use.

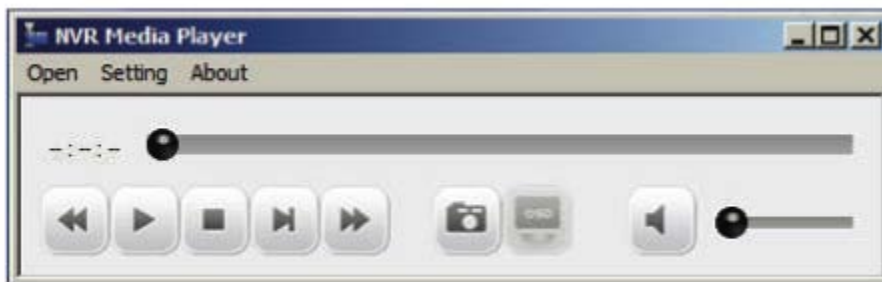


The exported AVI files (or JPEG images) will be saved under the C partition (or the partition where Windows is installed)

\* *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/>

## Play Exported Playback Videos with NVR Media Player

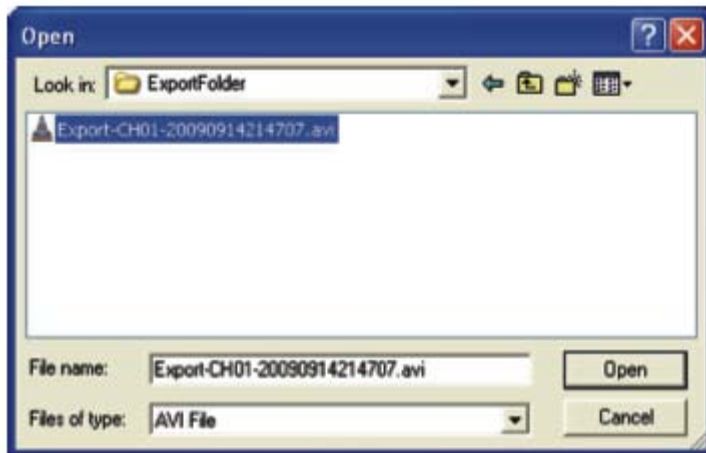


You can also use the NVR Media Player to play the exported AVI files. This can save you the trouble of installing third-party media player or codecs when playing the exported AVI videos.

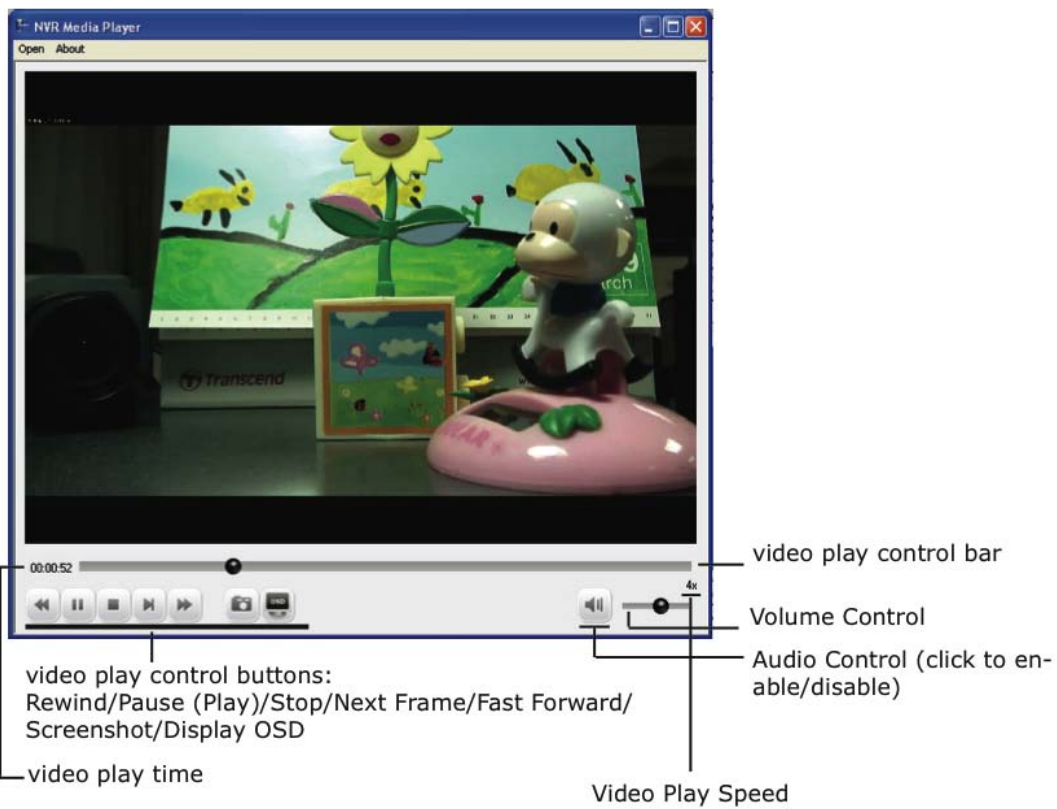
The NVR Media Player will be automatically installed after the CMS software is installed. You can find it in the Windows Start menu.



Click "Open" >> "AVI File"

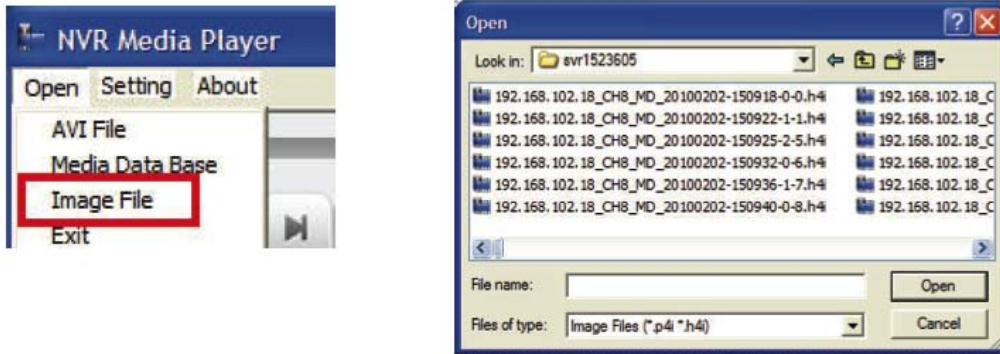


Locate the exported AVI file, and click "open". (Normally under "C:\ExportFolder")



The video will then start playing

## 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 types 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.

## NVR Setup -- System Configurations (Web Interface)

### Network Setup

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.

## Network Settings

### NVR Setup

- ☐ System Configuration
  - ☐ Network Setup
    - Device Network Setting
    - DHCP Server
    - DDNS Service
    - Time and Date
    - Users Account
    - Group Privilege
    - Disk Setup
  - ☐ Channel Configuration
  - ☐ Event Configuration
  - ☐ Recording Configuration
  - ☐ System Options

#### Network Setting

Connection Type: DHCP Client

Status: IP obtained from DHCP Server

IP Address: 192.168.102.62

Subnet Mask: 255.255.248.0

Gateway: 192.168.101.1

DNS 1: 192.168.101.1

DNS 2: 192.168.101.11

HTTP Port: 80

Streaming Port: 9877

UPnP Port Forwarding:  External Port: 6000 Test

---

#### Optional Setting

Device Name:  

Apply

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 "Auto Mode" which if there's a DHCP server in the same local network, the NVR can obtain IP address from DHCP server, and you can locate the NVR by using the NVR search utility.

If there's no DHCP server in the network, and the NVR is set to use "Auto Mode", it will use its own default static IP 192.168.101.50.

#### Network Setting

Connection Type: DHCP Client

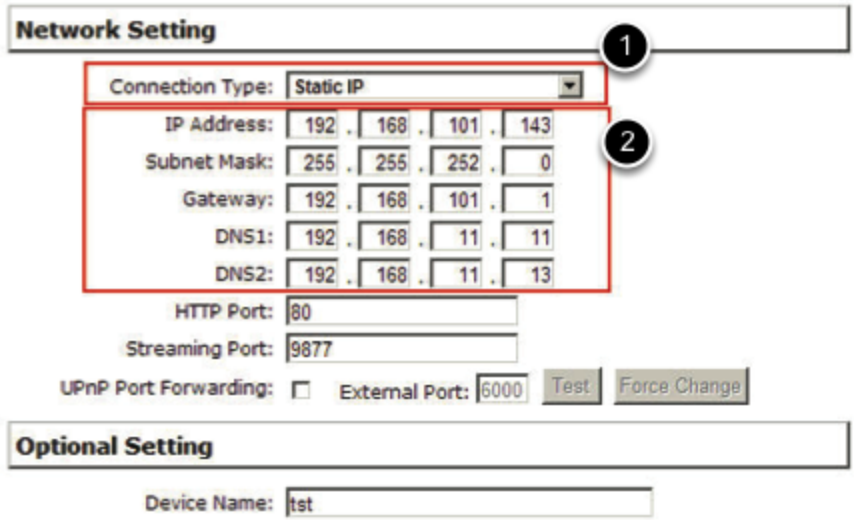
Status: Auto Mode

IP Address: DHCP Client

Static IP

The NVR supports three connection types that can be configured depends on how the network is setup.



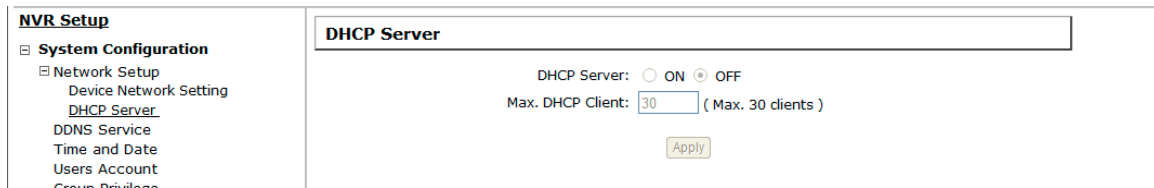


If you wish to set the recorder to use a static IP address in your local area network,

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

*\* 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 or you can manually turn off the DHCP server function from "System Configurations" >> "Network Setup" >> "DHCP Server" if you wish to use a separate DHCP server*

### DHCP Server



The built-in DHCP Server function is NOT always configurable and is greatly dependant to the connection type that is set to use in "Device Network Setting":

1. If the connection type is "Auto Mode", the DHCP server function is NOT configurable. It will be ON if the NVR doesn't obtain an IP from a DHCP server in the local network and uses its own default static IP 192.168.101.50
2. If the connection type is "Auto Mode", the DHCP server function is NOT configurable. It will be OFF if the NVR obtains an IP from a DHCP server in the local network.
3. If the connection type is "DHCP Client", the DHCP server function is NOT configurable. It will be OFF if the NVR obtains an IP from a DHCP server in the local network.
4. If the connection type is "DHCP Client", the DHCP server function is NOT configurable. It will be ON if the NVR doesn't obtain an IP from a DHCP server in the local network and uses its own default static IP 192.168.101.50
5. If the connection type is "Static IP", the DHCP server function is configurable and can be turned on/off manually.

## DDNS Service

### NVR Setup

#### System Configuration

Network Setup

DDNS Service

Time and Date

Users Account

Group Privilege

Disk Setup

#### Channel Configuration

#### Event Configuration

#### Recording Configuration

#### System Options

### Dynamic DNS Service

Enable DDNS Service

Server Address:

Domain Name:

User ID:

Password:

Connection Status: Disconnected

DDNS, which stands for "Dynamic DNS", is a method, protocol, or network service that provides the capability for a networked device, such as a router or computer system (in this case, the NVR) using the Internet Protocol Suite, to notify a domain name server to change, in real time, the active DNS configuration of its configured hostnames, addresses or other information stored in DNS.

A popular application of dynamic DNS is to provide a residential user's Internet gateway that has a variable, often changing, IP address with a well known hostname resolvable through standard DNS queries.

This is useful if the NVR is placed on the Internet with a dynamic public IP, which once the DDNS is properly setup, users can access the NVR remotely with the DDNS domain name without worrying if the IP has changed or not.

*\*Please make sure a valid DNS server has been configured under the "Network Setting" page in order for this function to work properly.*

*\*The NVR currently only works with free DDNS service provided by "DynDNS". For more information, please go to [www.dyndns.com](http://www.dyndns.com)*

*\*If the NVR is placed behind a router or Internet gateway, please make sure port forwarding for port 80 is configured on the router or the gateway in order for the DDNS function to properly register with the service. **It's often suggested to use the DDNS function in the router/ gateway for such case instead.***

*\*Once you have the DDNS function successfully up and running, please DO NOT forget to configure port forwarding for the NVR web port (default 80) and the streaming port (default 9877) in the router/gateway for remote viewing. You can then type in <http://yourddnsdomain> in the browser to access the NVR remotely for live view.*

The screenshot shows the DynDNS Free service page. At the top, there is a navigation bar with the Dyn logo, links for DNS, EMAIL, and LABS, and a search bar. Below the navigation bar is a large banner with the text "DynDNS Free" and "Free DNS for 10 years and counting." A yellow "GET IT NOW" button is prominently displayed. Below the banner is a breadcrumb trail: "Home » Managed DNS: Rock Solid, Scalable, Reliable » DynDNS Free".

The main content area is divided into three columns:

- Managed DNS:** A list of services including DynECT Managed DNS, DynECT Managed DNS Lite, Dyn Standard DNS, DynDNS Pro, DynDNS Free (highlighted in yellow), Secondary DNS, Domain Registration, DNS Case Studies, Support, and Contact Sales. A blue button "Already a user? Sign In" is located below this list.
- Free DNS When You Need It:** A section describing the service. It states: "Dyn's legendary free DNS service allows you to create a hostname that points to your home or office IP address, providing a easy URL for you to remember anywhere you have internet access." It also mentions: "Dyn also provides update mechanisms for making hostnames work with your dynamic IP address, delivery of your DNS records to five DNS servers in five Tier 1 bandwidth datacenters around the world, fast propagation/reliable static IP caching for DNS TTL values and more."
- Query volume:** "Get up to 648,000 queries per month."
- Free service:** "Get two domains in 18 available hostnames like DynDNS.org, DynDNS-home.com and more."
- Uptime when you're down:** "When you're offline, forward web requests or mark your host servers offline."

At the bottom of the page, there is a dark blue banner with the text "DynDNS Free" and a yellow "GET IT NOW" button, which is highlighted with a red rectangular box.

In order to properly configure the DDNS service function, please register a free DDNS domain name and account from DynDNS first. Go to <http://dyn.com/dns/dyndns-free/> from the browser to do so.

**Add New Hostname** ↑ Host Services

Note: You currently don't have any active [Dynamic DNS Pro](#) in your account. You cannot use some of our Host Service features. Paying for an Dynamic DNS Pro will make this form fully functional and will add several other features.

Hostname:  · dyndns.org ↓ *Enter a desired hostname here*  
*Select a desired sub-domain from the drop-down menu*

Wildcard Status: Disabled [[Want Wildcard support?](#)]

Service Type:  
 Host with IP address [?]  
 WebHop Redirect [?]  
 Offline Hostname [?]

IP Address:   
Your current location's IP address is 60.250.139.170  
TTL value is 60 seconds. [Edit TTL.](#) *Click here to automatically fill in the current public IP in the "IP Address field"*

Mail Routing:  Yes, let me configure Email routing. [?]

What do you want to use this host for?  
Select services and devices you would like to use with this hostname.

Work From Home Office or VPN:  
vpn remote file access remote desktop mail server web server  
chat server ftp backup ssh database voip *Pick one or more options here (any is fine)*

Hosting and Design For Web Sites and Blogs:  
blog gallery wiki portfolio ecommerce web page

Remote Access For Devices:  
dvr webcam data storage cctv printer alarm and security  
thermostat weather station game server home automation

Add To Cart *Click to go to the next step*

Fill in the necessary fields as illustrated above

Hostname:  · dyndns.org ↓

This hostname already exists. It may be in use by another customer.

The page will check whether another user has used the hostname you entered or not as soon as you click the "Add to Cart" button. If you see below message, simply enter a different and click "Add to Cart" again

## Shopping Cart

Host [seenergy88.dyndns.org](https://seenergy88.dyndns.org) added to cart. **Finish FREE checkout to activate.**

Your cart contains **free services only**. You will not be asked for credit card information.

**Upgrade Options**

Free accounts allow only five Dynamic DNS hosts.

- To add more and enjoy [additional benefits](#) for only \$15.00 per year, [purchase Dynamic DNS Pro](#).
- To get Dynamic DNS for **your own domain**, use [Custom DNS](#).

**Dynamic DNS Hosts**

<a href="https://seenergy88.dyndns.org">seenergy88.dyndns.org</a>	-	remove	\$0.00
---	---	--------	--------

Have a coupon? [Log in.](#)

<b>Sub - Total:</b>	<b>\$0.00</b>
<b>Order Total:</b>	<b>\$0.00</b>

**Create account or log in to continue**

Create an username and a password here. This will be used in the NVR's configuration. Enter a valid email address as well.

**Username:**

**Password:**


**Confirm password:**

**Email:**

**Confirm email:**

Subscribe to:  DynDNS.com newsletter (1 or 2 per month)  
 Dyn Inc. press releases  
 Remove HTML formatting from email

**Security Image:**



Enter the numbers from the above image:


I agree with the [acceptable use policy \(AUP\)](#) and [privacy policy](#).

**Already Registered?**

**Username**

**Password**

[Forgot your password?](#)



→
→
→
→

Once you get to the next page, fill in the necessary fields as illustrated above

**Dynamic DNS Service**

Enable DDNS Service

Server Address:

Domain Name:

User ID:

Password:

Go back to the NVR's DDNS service configuration page under "Setup" >> "System Configuration" >> "DDNS Service". Fill in the domain name you picked during the registration in the "Domain Name" field and the username/password you created in the "User ID" and "Password" field and click "Apply" to finish

**Dynamic DNS Service**

Enable DDNS Service

Server Address:


Domain Name:

User ID:

Password:

Connection Status: Disconnected

Message from webpage

 Connect DDNS successful

You can click the "Check DDNS Status" button to check the DynDNS service status. If you are getting a "Disconnected" message, it means that DDNS service server is down or the NVR is not connected to the Internet. If everything is ok normally, you should be prompted with a success message.

## Time and Date

The screenshot shows the 'Time and Date Setting' configuration page. On the left is a 'Setup' sidebar with a tree view containing: System Configuration (Network Setup, Time and Date, Users Account, Group Privilege, Disk Setup), Channel Configuration, Event Configuration, Recording Configuration, and System Options. The main panel is titled 'Time and Date Setting' and contains the following elements:

- 'Time Zone:' dropdown menu set to 'GMT+08 (Beijing, Hong Kong, Shanghai, Taipei)'. A 'Summer time' checkbox is present and unchecked.
- 'Manual' radio button selected. Below it is a form with six dropdown menus: Year (2009), Month (05), date (06), Hour (10), Minute (24), and Second (29).
- 'Sync with NTP Server' radio button selected. Below it is a form with two fields: 'NTP Server:' (ntp.ucsd.edu) and 'Update Interval:' (24 hr).
- 'Sync with PC' radio button is unselected. To its right, the current system time is displayed as 'May 06, 2009 10:24:29'.
- An 'Apply' button is located at the bottom right of the main panel.

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



## User Account

**Setup**

- System Configuration
  - Network Setup
  - Time and Date
  - Users Account
  - Group Privilege
  - Disk Setup
- Channel Configuration
- Event Configuration
- Recording Configuration
- System Options

**User Account Setting**

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:

Description:  (Optional)

Multiple users can access the recorder 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 "admin" account with password "admin". It's highly recommended to change the password upon your initial login.

## Add a new user

**Add User**

User Name:  Only **1** a-z, 0-9 and \_.@ are allowed

Password:

Confirm Password:

Company:  (Optional)

Department:  (Optional)

Telephone:  (Optional)

Mobile:  (Optional)

E-Mail:  (Optional)

Group:  **2**

Language:  (Optional)

Description:  (Optional)

**3**

- 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 “Add” to finish configuration

## Change the password of the "admin" account

The screenshot shows a table with three columns: Username, Group, and Description. The first row contains 'admin', 'admin', and 'This is the admin account'. A red box highlights this row, with a red arrow labeled '1.' pointing to it. Below the table are two buttons: 'Edit' and 'Remove'. The 'Edit' button is highlighted with a red box, with a red arrow labeled '2.' pointing to it. Below the buttons is a form titled 'User Account Information' with the following fields: Username: admin, Password: \*\*\*\*\*, Confirm Password: (empty), Company: (empty) (optional), and Department: (empty) (optional). The Password field is highlighted with a red box.

Username	Group	Description
admin	admin	This is the admin account

User Account Information

Username:

Password:

Confirm Password:

Company:  (optional)

Department:  (optional)

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"

## Group Privilege

### NVR Setup

- [-] System Configuration
  - [-] Network Setup
  - [-] DDNS Service
  - [-] Time and Date
  - [-] Users Account
  - Group Privilege**
  - [-] Disk Setup
- [-] Channel Configuration
- [-] Event Configuration
- [-] Recording Configuration
- [-] System Options

#### Group Privilege Setting

Group:

Live:

<input checked="" type="checkbox"/> CH1 <input type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH2 <input type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH3 <input type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH4 <input type="checkbox"/> Audio
---	---	---	---

Playback:

<input checked="" type="checkbox"/> CH1 <input type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH2 <input type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH3 <input type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH4 <input type="checkbox"/> Audio
---	---	---	---

Allow use of PTZ:

<input checked="" type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4
---	---	---	---

System Configuration:

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

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 "admin" 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 "admin" 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.

Group:    
Privilege Type:

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

Live:

<input checked="" type="checkbox"/> CH1 └ <input checked="" type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH2 └ <input checked="" type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH3 └ <input checked="" type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH4 └ <input checked="" type="checkbox"/> Audio
--	--	--	--

Playback:

<input checked="" type="checkbox"/> CH1 └ <input checked="" type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH2 └ <input checked="" type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH3 └ <input checked="" type="checkbox"/> Audio	<input checked="" type="checkbox"/> CH4 └ <input checked="" type="checkbox"/> Audio
--	--	--	--

Allow use of PTZ:

<input checked="" type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4
---	---	---	---

System Configuration:

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

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

## Disk Setup

### **NVR 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	142GB	Online	<input type="button" value="Format"/>

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.

*\*This page will list the internal disks only. The HDD will be formatted in EXT3 file system.*

*\*Maximum capacity of each internal hard disk drive is 3TB.*

*\*The USB HDDs will only be listed in the "USB Backup" and "Hard Disk Status" pages in "System Options". The USB HDDs have to be formatted in advance in FAT16/FAT32 or EXT3 file system. (FAT32 is recommended)*

# NVR Setup -- Channel Configurations (Web Interface)

## Add a camera

- NVR Setup**
- System Configuration
- Channel Configuration
  - Channel Setting
  - OSD Setting
  - PTZ Setting
  - E-Map Setting
- Event Configuration
- Recording Configuration
- System Options

**Channel Setting**

Channel	Channel Name	IP Address	Format	Resolution
1	P3301	<a href="#">192.168.102.15</a>	h264	320x240
2	IK-WB16A-W	<a href="#">192.168.11.80</a>	jpeg	320x240

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:

IP Address:

User Name:

Password:

HTTP Port:

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

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.

### Automatic Search

2 IK-WB16A-W [192.168.11.80](#) jpeg 320x240

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:

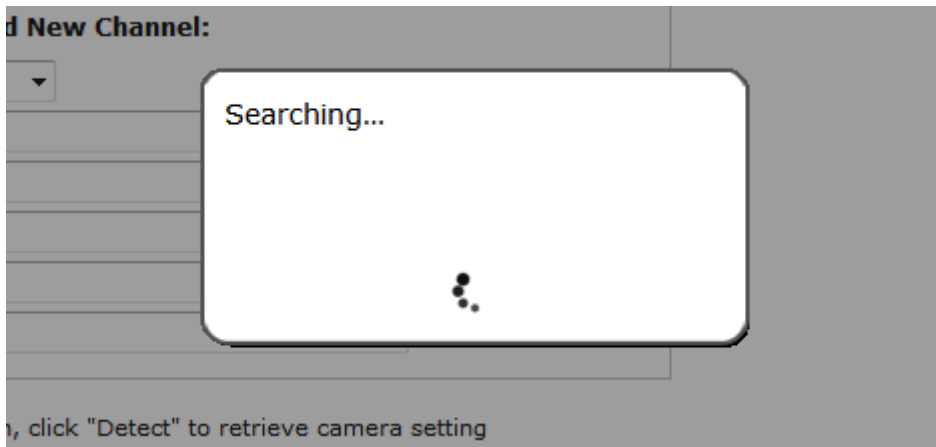
IP Address:

User Name:

Click the "Search" button to perform the camera search.



You should be prompted to install Active Control component the first time you visit the page in order for the search to function properly. Go ahead and click "Install"



Once you have the ActiveX component installed, the search status should be displayed after clicking "Search"

AXIS	P3301	192.168.101.86	80
------	-------	----------------	----

\*Select a camera from search result and click "Configure" to configure setting below.

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



**Add New Channel:**

Channel ID: 2

Channel Name: SNC-DH140

IP Address: 192.168.102.23

User Name: admin

Password: ●●●●

HTTP Port: 80

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.

**Additional Camera Information**

Video Port: 554

Format: MPEG4


Resolution: 640x480

Frame Rate: Full

Bitrate: Full

Record:  Continuous

Record Audio:  Record audio



Preview

Add Cancel

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.

Adjust its video format, frame rate, resolution or bit rate...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

1 a new camera by manually entering camera's setting in the "Came

	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	

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

HTTP PORT: [ 80 ]

**Detect** Once you change the camera's IP, User Name, Password or HTTP Port, click "Detect" to retrieve the camera's settings

**Additional Camera Information**

Video Port: [ 554 ]

Format: [ jpeg ]

Resolution: [ 1920x1080 ]

Frame Rate: [ Full ]

Quality: [ 2 ]

Record:  Continuous [ Full ]

Format: [ h264 ]

Resolution: [ 1920x1080 ]

Frame Rate: [ Full ]

Bitrate Mode: [ CBR ]

Bitrate: [ Full ]

Record Audio:  Record audio

**Settings for live video**

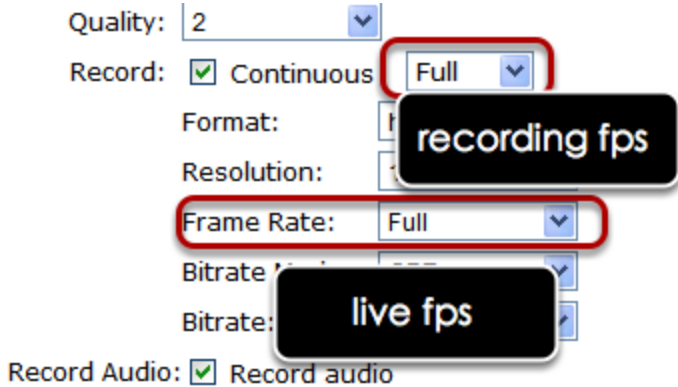
**Settings for conitnuos recording**

[ Apply ] [ Cancel ]

Once the camera's settings are polled and displayed, you can also enable "continuous" recording and adjust its recording quality settings before adding the camera.

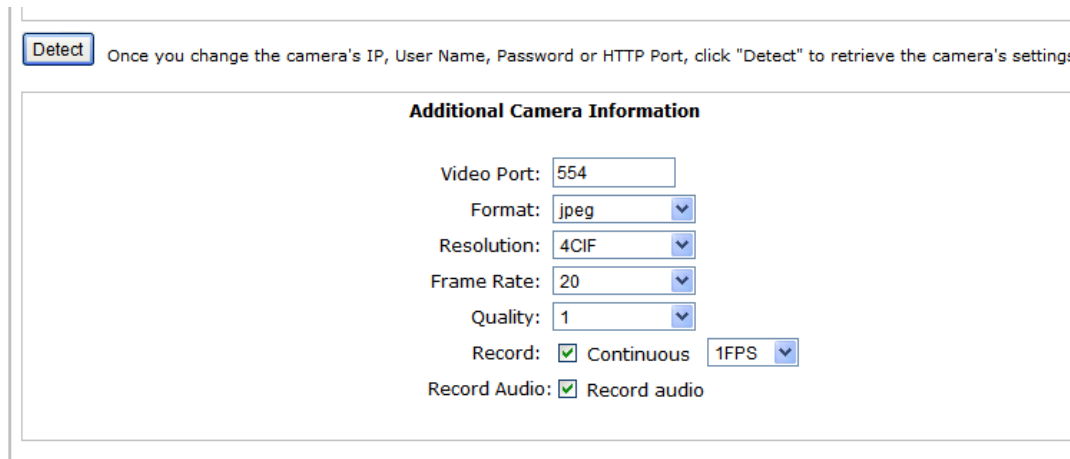
Some cameras are capable of multiple streaming profiles, in which different video codecs are used for different purposes.

You will be able to use different video format for continuous recording if it's a multi-stream capable camera.



There are two types of fps settings here, one is the fps that NVR sets back to the camera, and this is the fps NVR will be receiving from the camera. The other is recording fps, which will be limited by the live fps. (ex. if the live fps is set to 10, choosing "Full" in the recording fps meaning it will only record at 10fps maximum).

For MPEG/H.264, only i frame or full (i+p frame) can be selected for recording fps.



For single stream camera, only the recording fps can be adjusted.

## Add a camera manually

**Add New Channel:**

Channel ID:

Channel Name:  **1. enter manually**

IP Address:

User Name:

Password:

**2. click "Detect"** HTTP Port:

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

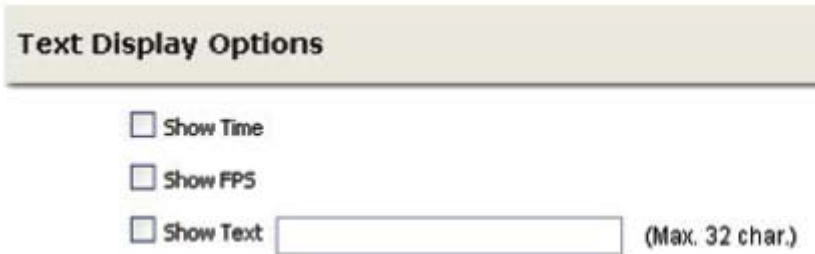
Simply follow the instruction described above but instead of using the "Search" function, enter the camera's IP address and credential in the "Camera Information" manually.

## OSD Settings

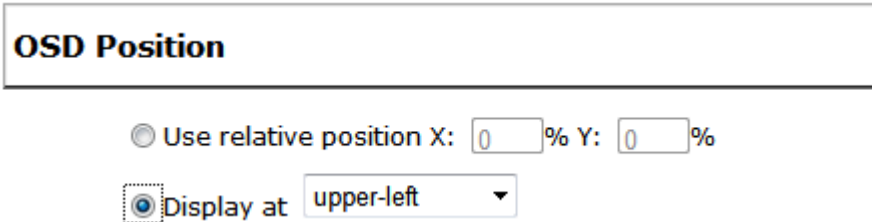
The OSD (On Screen Display) allows users to add informational text message and embed it onto the video. By default, this function is turned off. To add texts to one or more videos:



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



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.



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



Preview

\* Click this button to see a preview of your OSD settings

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

#### Customize OSD text & background

Text Size:  Auto

Customized 8

Text Color:

Font:

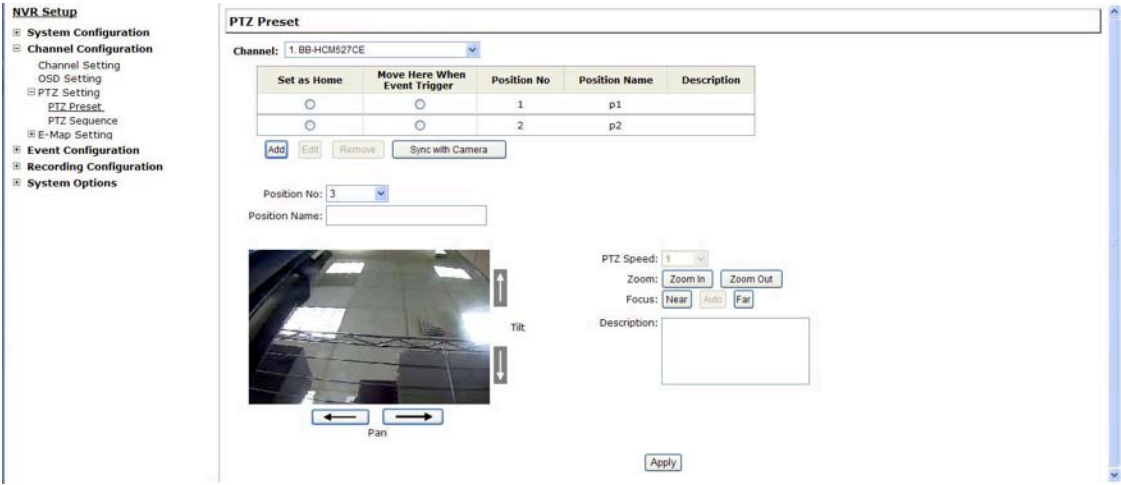
Text Background Color:  Transparent

Customized

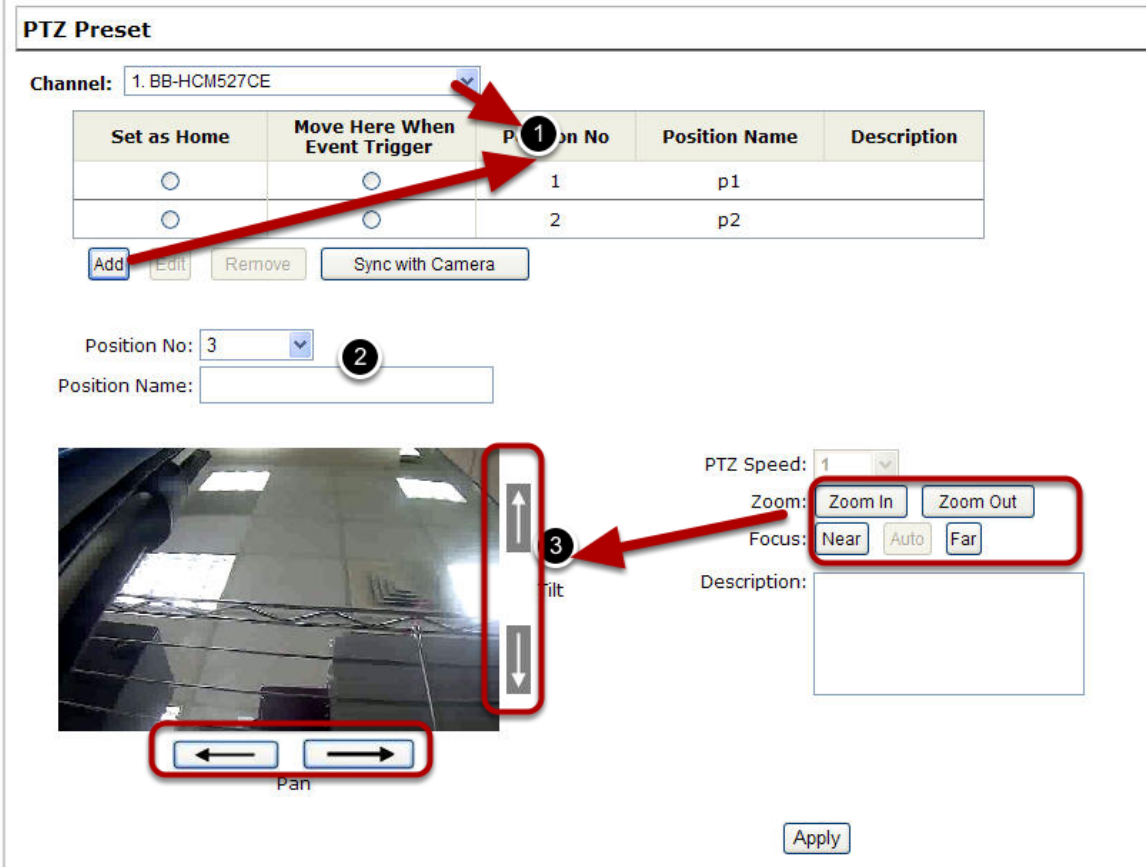
*The texts can be further adjusted with changes to different size, color or font so they can be more visible on the video.*

# PTZ Setting

## 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.



To set up PTZ preset points:

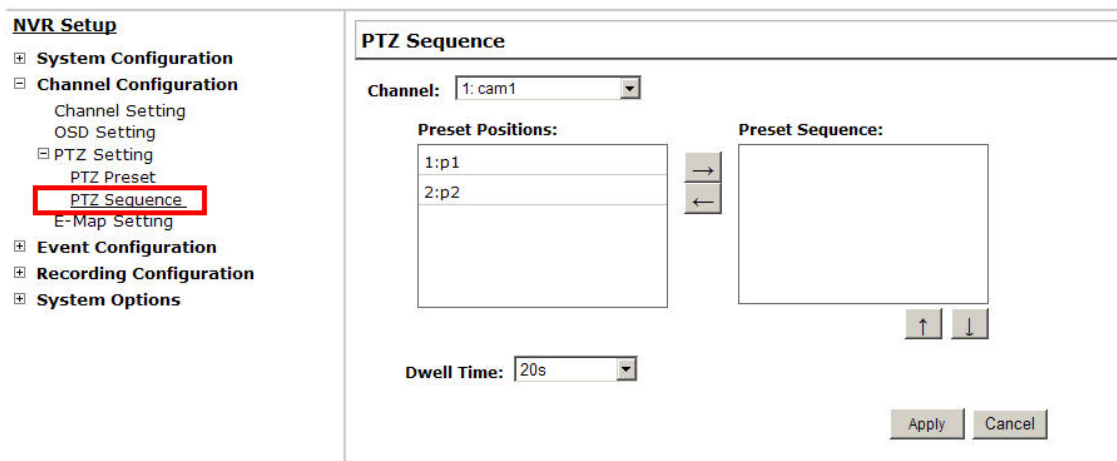
1. Select a camera from the "Camera" drop-down menu and click "Add".
2. Select a position number for the preset point from the "Position Number" drop-down menu and fill in a name in the "Position Name" field for easier identification.
3. Use the PTZ control provided in the configuration page to set the 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.

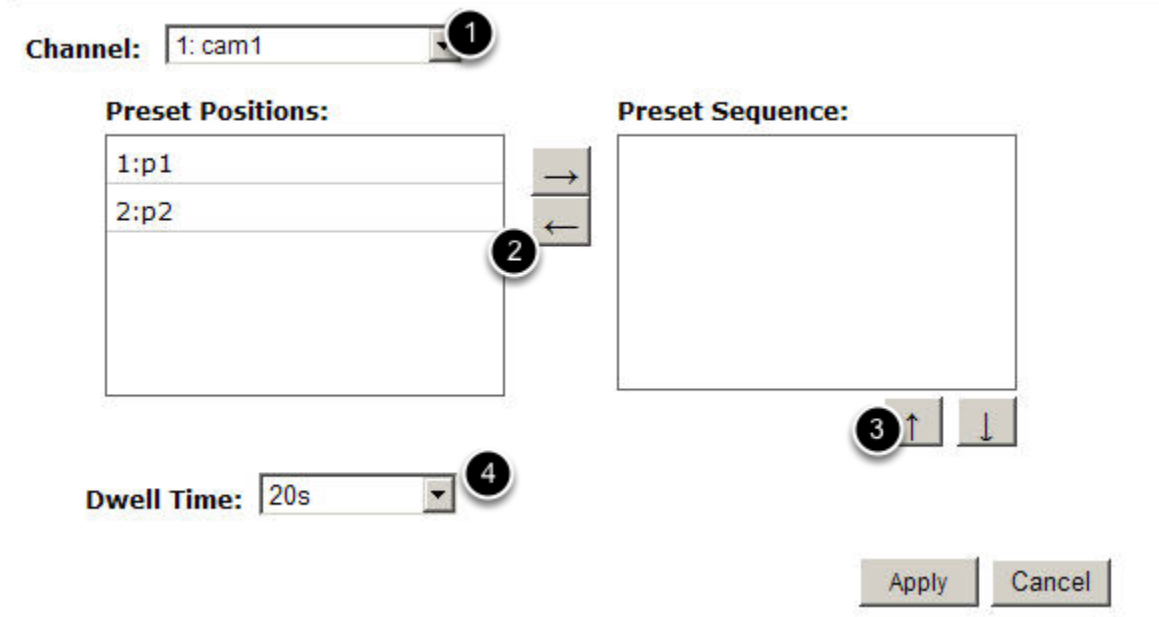
\* "Move Here when Event Trigger": In order for this function to work properly, please also complete configuration in "Event Configuration" >> "Event Trigger"

## PTZ Preset Sequence





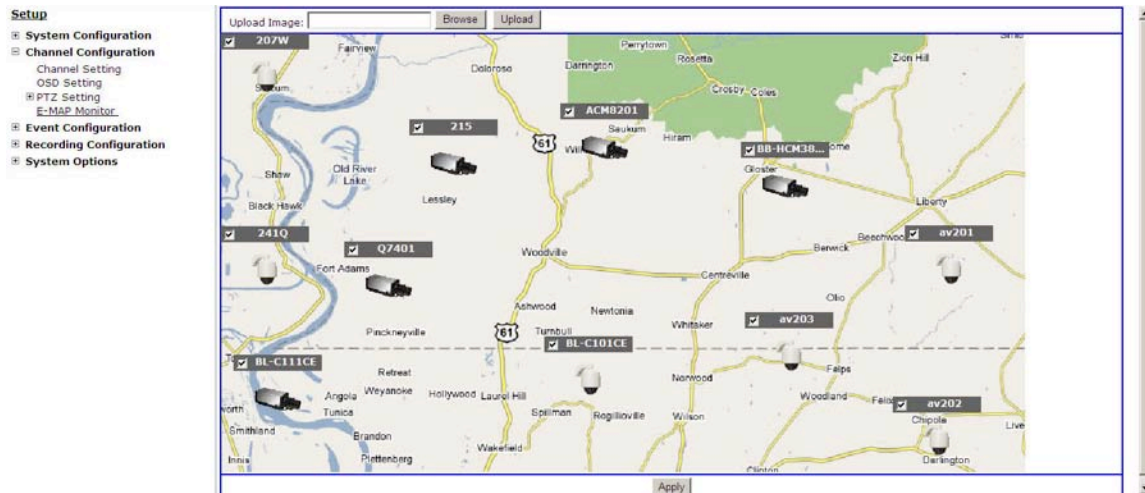
Once you have multiple preset points defined for a camera, it is convenient for monitoring to set up the sequencing viewing among those preset point and let the recorder automatically switch between them for you.



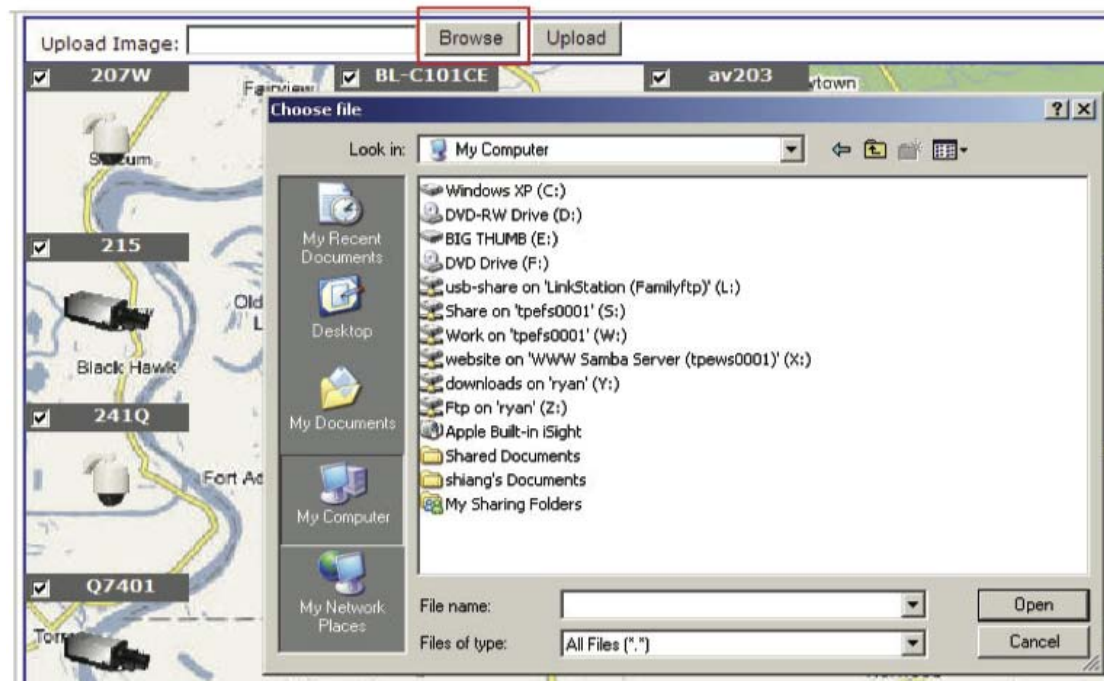
- To configure preset sequence for a camera,
1. Select a channel from the "Channel" drop-down menu. The available preset points should be listed in "Camera Presets" section.
  2. Pick the ones you like for sequence viewing and press the "->" button to move them to the "Preset Sequence" section, then
  3. Use the up and down buttons to adjust their sequencing positions.
  4. Finally, select a dwell time from the drop-down menu and click "Apply" to save the configuration

## E-Map Setting

### 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.



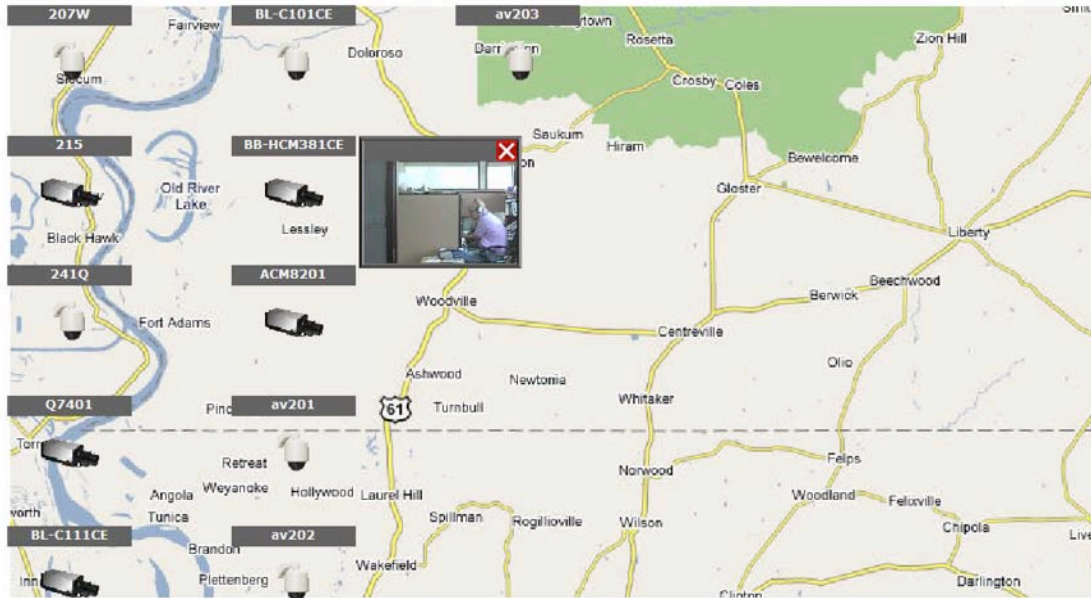
Then click and drag the camera icon to move the camera to define its location.

[Main View](#) | [Google Map Monitor](#) | [Local MAP Monitor](#) | [NVR Setup](#) | [Channel Status](#)

System Time: December 25, 2012 09:55:16

User: [DEMO](#)

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



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.

## 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.

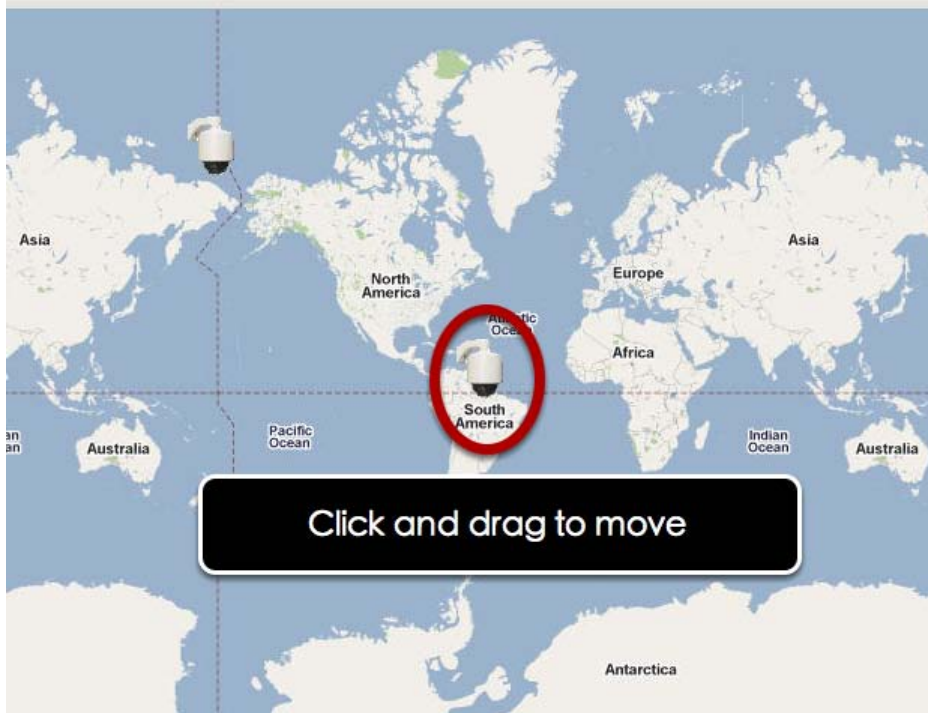


To configure locations of each camera, first determine the location you'd like to place the camera to on the map. You can do so by:

- 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

*\* The Google Map Monitor requires active Internet connection and cannot be used in conjunction with the regular E-Map monitor function.*

## NVR Setup -- Event Configurations (Web Interface)

### Event Configuration

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.

## General Settings

**NVR Setup**

- System Configuration
- Channel Configuration
- Event Configuration
  - General Setting
  - DI/DO Setting
  - Event Servers
  - Event Trigger
- Recording Configuration
- System Options

---

**General Setting**

**Event Trigger Duration**

Always

Only during:  Sun  Mon  Tues  Wed  Thur  Fri  Sat

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

**Event Trigger Interval**

Interval: 5 Seconds. (5~86400)

**Trigger Actions**

Subject: <TIME> : <CH> <TRIGGER> from <IP>

Send Message

Text:

FTP File Name:

<IP>\_<CH>\_<TRIGGER>\_<TIME>

Send Image

1 Frames,

File Name:

Apply Cancel

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.

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:

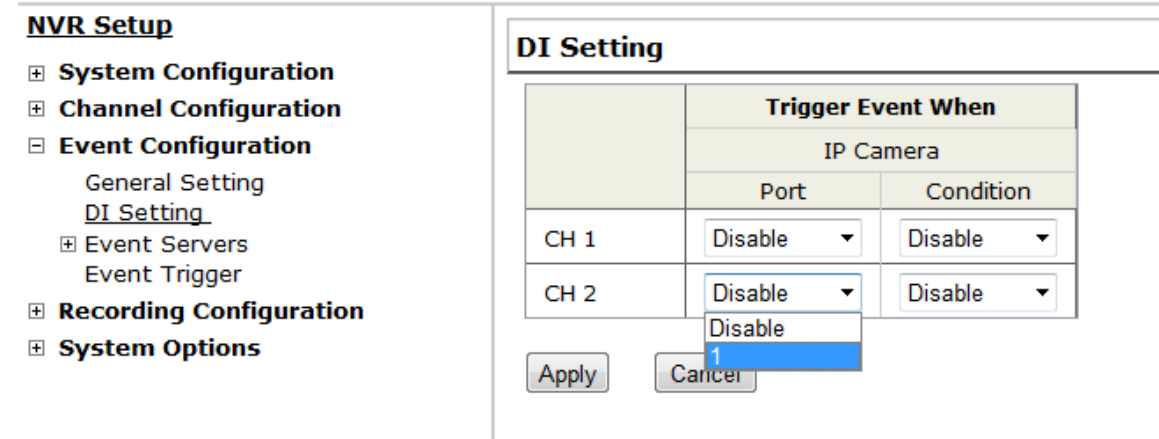
- You can choose to have the recorder send out the first few frames of the video recorder upon an event is triggered
- You can also choose to

have the recorder send out a warning message in e-mail or in txt file format and upload it to an destined FTP server



## DI Settings

This function allows users to manage camera's digital input and output ports right from the recorder. You can setup the recorder to receive triggers from a particular camera's input port and trigger a device, such as an alarm that is connected to the camera's output port.



1. For cameras that come with physical digital input ports, their ports will be listed in the far left drop-down menu.
2. Pick the desired channel for I/O mapping, and then select the camera's input port from the drop-down menu.
3. Select the trigger condition from the "Condition" drop-down menu.

*\*Only connected cameras will be displayed in the list.*

*\*Some cameras only allow one trigger source be configured at a time, e.g.:*

*If the camera has the motion detection function turned on, its digital input will be disabled and vice versa. Under such circumstance, if you set to use camera's digital input port as the event trigger source, you will not be able to select motion detection as the trigger source for this camera under "Event Configurations" >> "Event Trigger" setup page.*

*\* 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.*

## Event Servers

### 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:

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.

**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:  ①

Network Address:  ② or host name or IP address

Port:  ③

**Login Information**

User Name:  ④

Password:  ④

**Passive Mode**

Use Passive Mode ⑤

**Test**

⑥ Click "Test" to test the connection to the FTP server:

⑦

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)
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
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

## Configuring an SMTP server

**SMTP Servers Setting**

**SMTP Server 1**

Network Address:  \*Enter host name or IP address

Port:

Sender's Name:

Sender's E-mail:

Enable Authentication:

User Name:

Password:

**Test**

Send Test Email To:

**SMTP Server 2**

Network Address:  \*Enter host name or IP address

Port:

Sender's Name:

Sender's E-mail:

Enable Authentication:

User Name:

Password:

**Test**

Send Test Email To:

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 if it requires authentication
6. Click "Apply" to save the configuration

\*The NVR supports SMTP servers that use base64 or MD5 authentication methods.

\* 3rd party free E-mail services such as Gmail, Hotmail, or Yahoo mail are not supported.

## Event Triggers

**Event Handling Setting**

When Channel is triggered by

**Reminder:**  
 \*Please make sure you have properly enabled and configured motion detection region in the camera's web configuration UI before enabling motion detection in the NVR. The NVR only supports single region detection, and only the first region will be used even if you set multiple motion detection regions in the camera.

	1	2	3	4
I/O Input	<input type="checkbox"/>	<input type="checkbox"/>		
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>		
Custom Event	<input type="checkbox"/>	<input type="checkbox"/>		

When NVR is triggered by

Disk fail
  Recycled  
 When NVR start up
  When NVR system configuration changed  
 When channel's configuration changed
  When camera connection status changed  
 When remaining HDD space is lower than  GB (min. 2GB when HDD recycle function is disabled)  
 When system temperature is too high

Trigger Actions

**E-Mail:** E-Mail Addresses:  \*use ", " to separate e-mails  
 **FTP:** Upload Path:   
 **Move to particular preset points**

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

**Event Handling Setting**

When Channel is triggered by

**Reminder:**  
 \*Please make sure you have properly enabled and configured motion detection region in the camera's web configuration UI before enabling motion detection in the NVR. The NVR only supports single region detection, and only the first region will be used even if you set multiple motion detection regions in the camera.

	1	2	3	4
I/O Input	<input type="checkbox"/>	<input type="checkbox"/>		
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>		
Custom Event	<input type="checkbox"/>	<input type="checkbox"/>		

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

*\*Once motion detection is enabled in this page, please configure the motion area and enable motion detection in the corresponding channels (cameras) from camera's own web UI. 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.*

**When NVR is triggered by**

- Disk fail
- Recycled
- When NVR start up
- When NVR system configuration changed
- When channel's configuration changed
- When camera connection status changed
- When remaining HDD space is lower than  GB (min. 2GB when HDD recycle function is disabled)
- When system temperature is too high

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

**Trigger Actions**

- E-Mail:** E-Mail Addresses:  \*use "," to separate e-mails
- FTP:** Upload Path:
- Move to particular preset points**

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

*\* 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.*

## **NVR Setup -- Recording Configurations (Web Interface)**

### **General Settings**

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.

## General Settings

**Recording General Settings**

---

**Recording Buffer**

Pre-Alarm Buffer:  Seconds (0~60)

Post-Alarm Buffer:  Seconds (5~60)

---

**Recording Frame Rate**

Channel: 1~4

	1	2	3	4
Format	Same as Live ▼	Same as Live ▼		
Continuous	1 Only ▼	1 ▼		
Schedule	Full ▼	5 ▼		
Event	Full ▼	Full ▼		
Manual	Full ▼	Full ▼		

---

**Recycle HDD space**

Enable Recycle (When enabled, recycle automatically starts when remaining HDD space reaches 10GB. The system recycles HDD space 20GB at a time)

---

**Keep Video**

Keep the previous  days of recorded videos.

---

**Camera Recording Setting**

	1	2	3	4
Continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Schedule	<input type="checkbox"/>	<input type="checkbox"/>		
Event	<input type="checkbox"/>	<input type="checkbox"/>		

---

**Record Audio**

	1	2	3	4
Record audio	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

You can define the following in "General Settings":

- Pre-Alarm/Post-Alarm recording length
- Recording frame rate
- Turn on/off HDD recycle function
- Define to always keep a number of days of previously recorded data
- Enable/disable different recording types on different cameras
- Enable/disable audio recording

### Recording Buffer

Pre-Alarm Buffer:  Seconds (0~60)

Post-Alarm Buffer:  Seconds (5~60)

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.

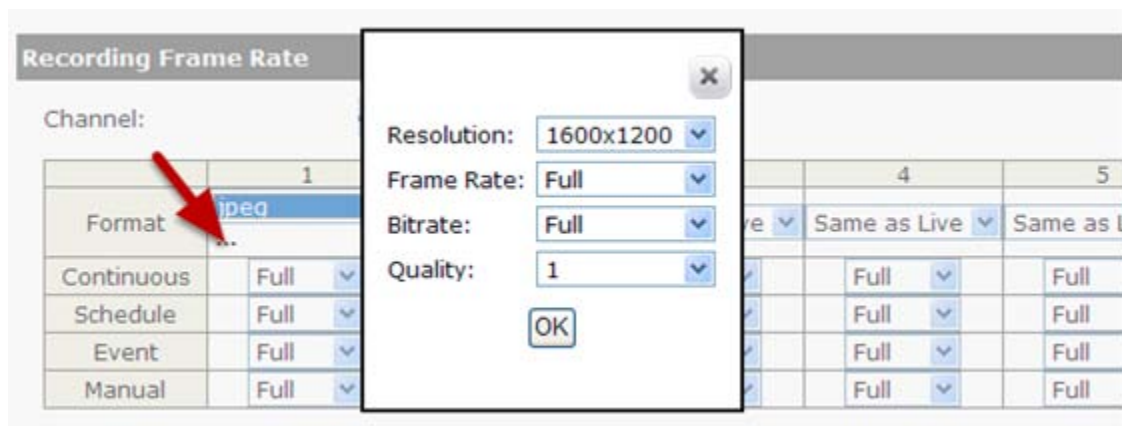
\* The "Pre-alarm" function only works when the "Continuous" recording is also activated.

### Recording Frame Rate

Channel: 1~4

	1	2	3	4
Format	Same as Live ▾	Same as Live ▾	Same as Live ▾	Same as Live ▾
Continuous	Full ▾	Full ▾	Full ▾	Full ▾
Schedule	Full ▾	Full ▾	Full ▾	Full ▾
Event	Full ▾	Full ▾	Full ▾	Full ▾
Manual	Full ▾	Full ▾	Full ▾	Full ▾

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

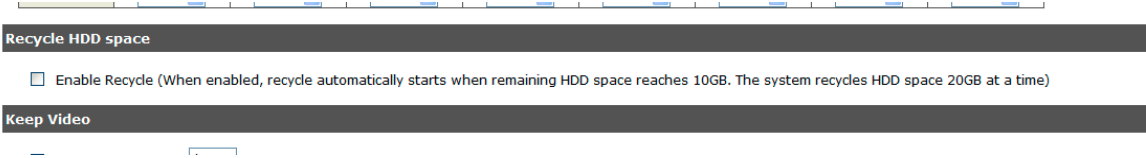


You are able to use the same video format for recordings or you can choose other formats for different recording purposes if it's a multi-stream capable camera.

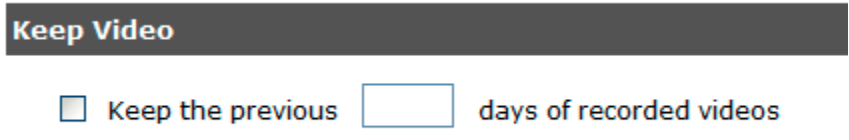
If you chose to use a different video format for recording, you are able to adjust its detail settings by clicking on the "...".

A new dialog will pop out for further detail configurations. Noticing the "Frame rate" in this dialog represents the live fps that will be set back to the camera for this particular video format. You can configure the recording fps for different types of recordings individually.





The HDD space recycle function is turned on by default. You can alternatively turn it off and set a system event in "NVR Setup" > > "Event Configurations" > > "Event Trigger" > > "Event Handling Settings" > > "When NVR is triggered by", and set a desired disk remaining space for event trigger condition. You'd have to take action manually after you get the system event notification, such as replacing disk, turn on HDD recycle function, or backup recording data.



**Camera Recording Setting**

Users can also set to keep a previous number of days of recording data by enabling the option below. This is quite often used in application such as banking which certain countries requires to always keep a minimum previous number of days of recording data.

*\* If this option is enabled, once the hard drive is full, the recycle function will then start but it will ensure that the number of days of recording data defined here will stay in hard drive instead of wiping out 20GB of data at a time.*

*\* If the hard drive is not full, the NVR re-calculates twice a day (each at 2:30am and 2:30pm) to keep the defined number of days of recording data from these two particular points of time backward.*

**Camera Recording Setting**

	1	2	3	4
Continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Schedule	<input type="checkbox"/>	<input type="checkbox"/>		
Event	<input type="checkbox"/>	<input type="checkbox"/>		

**Record Audio**

	1	2	3	4
Record audio	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

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

### Schedule Recording

**Schedule Recording Settings**

Channel:

Schedule Table																								
	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																								

**Quick Configuration**

Days:

Sun  Mon  Tues  Wed  Thur  Fri  Sat  All

Duration:

All day

During Start Time:  :  End Time:  :

Copy Schedule To Channel:

You can define the time range of the schedule recording for all channels in this page.

### To configure a schedule recording

**Schedule Recording Settings**

Channel:

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

Schedule Table																								
	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																								

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.

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

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.

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

## **NVR Setup -- System Options (Web Interface)**

### **Device Information**

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 device ....etc.

## Device Information

<b>NVR Setup</b> <ul style="list-style-type: none"><li>▣ System Configuration</li><li>▣ Channel Configuration</li><li>▣ Event Configuration</li><li>▣ Recording Configuration</li><li>▣ System Options<ul style="list-style-type: none"><li><u>Device Information</u></li><li>System Logs</li><li>Maintenance</li><li>Disk Status</li><li>USB Backup</li></ul></li></ul>	<b>General Information</b>
	Device Name: Model Name: <b>ESV4</b> Firmware Version: <b>1.0.0.39090</b> Device Time: <b>July 18, 2011 17:51:10</b>
	<b>Network Information</b>
	Network Type: <b>DHCP</b> Device IP: <b>192.168.102.48</b> HTTP Port: <b>80</b> Streaming Port: <b>9877</b> MAC Address: <b>00:19:0f:07:39:5a</b> UPnP Port Forwarding: <b>Disabled</b>

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.

## Logs and Reports

System Logs							
ID	Time	Type	Sub-type	CH	AP	IP	User
1	July 19, 2011 10:15:07	User	User login		Web		admin
2	July 19, 2011 09:47:20	User	User login		Web		admin
3	July 19, 2011 08:56:19	Recording	Stop recycling HDD space				
4	July 19, 2011 08:55:23	Recording	Start recycling HDD space				
5	July 18, 2011 20:21:40	User	User logout		TestClient	192.168.102.21	admin
6	July 18, 2011 20:20:38	User	User logout		TestClient	192.168.101.178	admin
7	July 18, 2011 19:54:46	User	User login		Web		admin
8	July 18, 2011 19:50:35	User	User login		Web		admin
9	July 18, 2011 19:45:14	Linux	Format hard disk				
10	July 18, 2011 19:44:55	Linux	Format hard disk				
11	July 18, 2011 19:44:33	Linux	Format hard disk				
12	July 18, 2011 19:44:15	Linux	Format hard disk				
13	July 18, 2011 19:43:59	Linux	Format hard disk				
14	July 18, 2011 19:43:38	Linux	Format hard disk				
15	July 18, 2011 19:41:06	Channel	Camera connected	31			
16	July 18, 2011 19:41:06	Channel	Camera connected	21			
17	July 18, 2011 19:41:05	Channel	Camera connected	18			
18	July 18, 2011 19:41:05	Channel	Camera connected	19			
19	July 18, 2011 19:41:05	Channel	Camera connected	17			
20	July 18, 2011 19:41:05	Channel	Camera connected	16			
21	July 18, 2011 19:41:05	Channel	Camera connected	15			
22	July 18, 2011 19:41:05	Channel	Camera connected	13			
23	July 18, 2011 19:41:05	Channel	Camera connected	14			
24	July 18, 2011 19:41:05	Channel	Camera connected	12			
25	July 18, 2011 19:41:05	Channel	Camera connected	22			

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

## Maintenance

**NVR Setup**

- System Configuration
- Channel Configuration
- Event Configuration
- Recording Configuration
- System Options**
  - Device Information
  - System Logs
  - Maintenance
  - DO Status
  - Disk Status
  - USB Backup
  - UPS Configuration

---

**Maintenance**

**Restart NVR**

Click "Restart" button to restart NVR

**Restart NVR Automatically**

Select one of the options below:

Restart:  Every week  Every month

Sunday 00:00

**Restart Camera**

Select a camera below to perform a restart

CH1: 88-HCM715

**Upgrade NVR Firmware**

Locate the new firmware and perform the upgrade (**Current Firmware Version: 1.6.0A.30028874**)

Specify the firmware file:   and click

**\*\*\* Note \*\*\*:** Please DO NOT power off the system during the firmware upgrade process. You will be notified once the upgrade process is complete

**Backup NVR's Setting**

Backup the configuration to a local hard disk

**Restore NVR's Setting**

Restore configuration from a previously saved configuration file

Specify the configuration file:   and click

**\*\*\* Note \*\*\*:** Please DO NOT power off the system during the restore process. You will be notified once the process completed.

**Reset NVR to Factory Default**

This will restore all configurations to their factory default values  
 When the DHCP server function is disabled, the default IP of the system is:192.168.101.50

**\*\*\* Note \*\*\*:** Please DO NOT power off the system during the reset process. You will be notified once the process is complete.

"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 at a specific time automatically

### Restart NVR Automatically

Select one of the options below:

Restart:

### Restart NVR Automatically

Select one of the options below:

Restart:

You can configure the NVR to restart automatically by using the options given in the web UI. You can set the NVR to restart at a particular hour of a specific day during a week or a month.

## Firmware Upgrade

The firmware can be upgraded through web UI or USB. Before upgrading firmware, please backup configuration in advance.

### Through the web interface

#### ⊕ Recording Configuration

#### ⊖ System Options

Device Information

System Logs

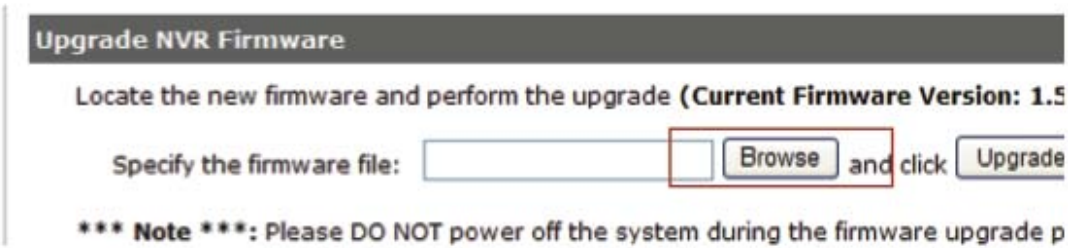
**Maintenance**

DO Status

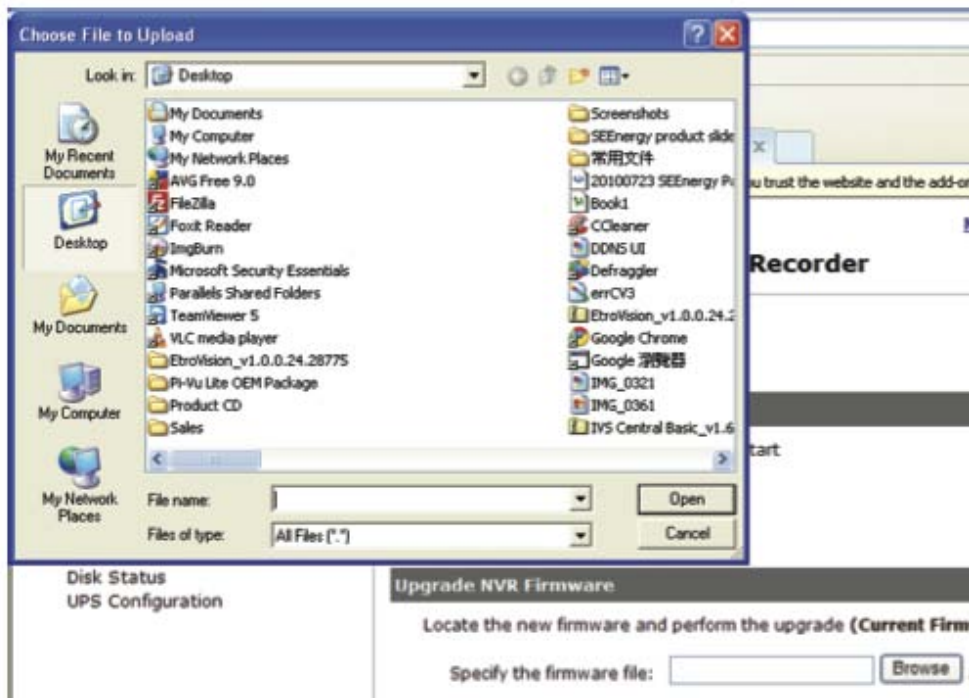
Disk Status

Login into NVR's web management UI. Go to "Setup" page and go to "System Options" -> "Maintenance"





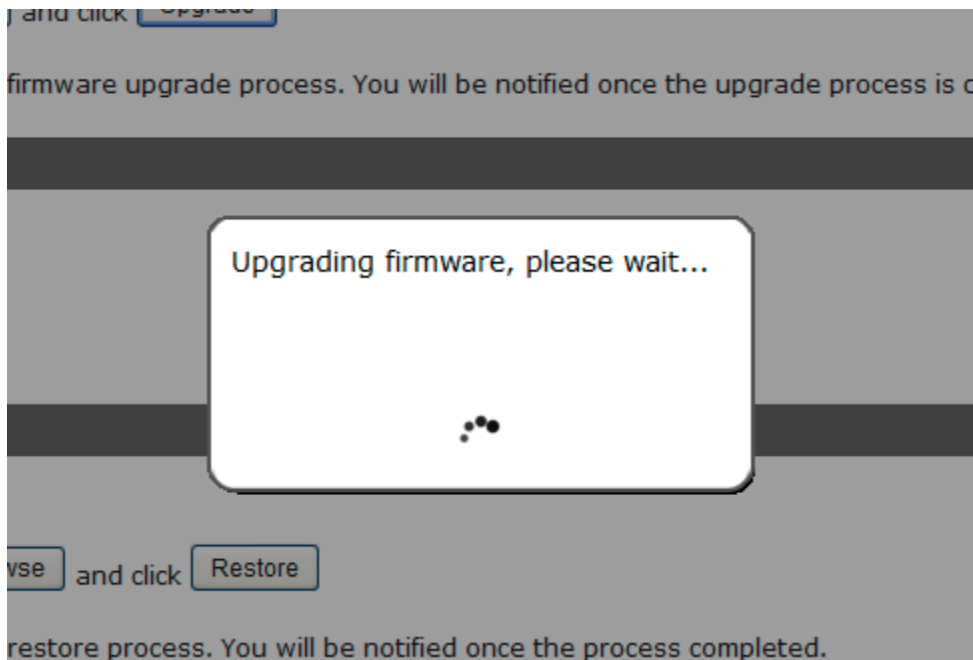
On "Upgrade NVR's Firmware" section, click "Browse" and select new firmware file



A new dialog should display and let you choose the location of the firmware file.



When done, click "Upgrade".



Follow the on screen instruction and wait for the process to finish  
(After upgrade, the system will reboot automatically)

### Upgrade through USB thumb drive

1. Prepare a USB flash disk and format with FAT or FAT32 format
2. Place the firmware in the USB flash disk and make sure it's placed at the top-level directory. Please do not place the file in a folder.  
**(Make sure to change the firmware file name to "firmware" and leave its file extension ".bin" as is before placing the file to the USB disk)**
3. Plug USB flash disk into USB port on the NVR
4. The System LED on the NVR will start to flash in amber. This indicates firmware upgrade is in process
5. \*\*\* Warning \*\*\* Please wait until upgrade process finished, interrupt the upgrade process may cause system not work anymore
6. Wait until System LED remains solid in amber. This indicates firmware upgrade is finished
7. Power off the NVR and remove the USB disk the power the unit back on again
8. Restore configuration file back if needed

## Reset the NVR to Factory Default

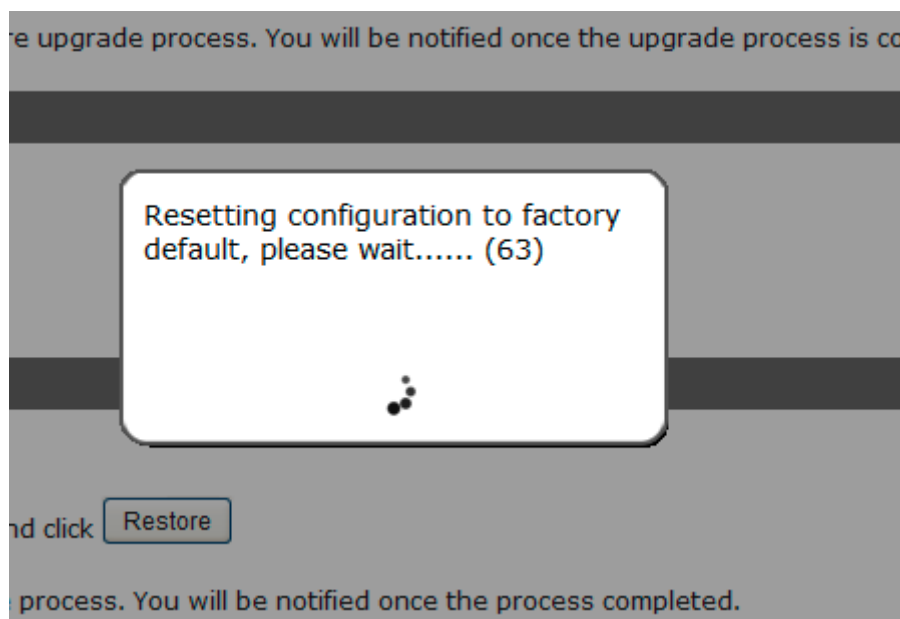
### Reset NVR to Factory Default

This will restore all configurations to their factory default values

When the DHCP server function is disabled, the default IP of the system is:192.168.101.50

\*\*\* **Note** \*\*\*: Please DO NOT power off the system during the reset process. You will be notified once the process is complete.

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



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

To perform **hardware reset to default**, follow the instructions below:

- **Power-off the device**
- **Press and Hold reset button at the back of the device.**
- **Power-on the device**
- **Wait till all the LED's are solid green.**
- **Release the reset button**

## Disk Status

Setup							
<input type="checkbox"/> System Configuration							
<input type="checkbox"/> Channel Configuration							
<input type="checkbox"/> Event Configuration							
<input type="checkbox"/> Recording Configuration							
<input type="checkbox"/> System Options							
Device Information							
System Logs							
Maintenance							
DO 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		--

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

## USB Backup

**NVR Setup**

- System Configuration
- Channel Configuration
- Event Configuration
- Recording Configuration
- System Options
  - Device Information
  - System Logs
  - Maintenance
  - DO Status
  - Disk Status
  - USB Backup**
  - UPS Configuration

**USB Backup**

USB HDD:   \* Please format the HDD to FAT32 on a Windows PC before using it for backup

Channel:  
 LNZ4001     LNE3003     LNE1001     cam4  
 Channel 5     v1.0.0.5-2     Channel 7     Channel 8  
 Channel 9     Channel 10     Channel 11     Channel 12  
 Channel 13     Channel 14     Channel 15     Channel 16

Start Time: August 12, 2010 14:46:33

End Time: August 12, 2010 14:46:33

It's a function that allows users to backup the recording data in its database file format (not AVI) to the externally connected USB hard disk.

Disk Status							
Disk ID	Status	Capacity	Remaining Disk Space	Remaining	Online Time	Recording Period	Est. Remaining Time
HDD 1	Online	222GB	216GB	97%	Aug 12 2010 11:21:12	May 21 2010 16:52:02 -	2980 day(s) 21 hour (s)
USB HDD 1	Online	1935MB	553MB	28%		--	--

You can check the "Disk Status" page under "System Options" to see if the USB disk has been detected by the NVR. If it's available, it will also be in the USB HDD drop-down menu in the USB backup page.

\* It needs a USB disk containing free space larger than 100MB.

**USB Backup**

USB HDD: USB HDD 1, 553MB available \* Please format the HDD

Channel:  
 LNZ4001     LNE3003  
 Channel 5     v1.0.0.5-2  
 Channel 9     Channel 10  
 Channel 13     Channel 14

Start Time: May 21, 2010 16:52:02

End Time: May 21, 2010 16:52:02

Once it's detected, go back to the "USB Backup" page and it should be available for further configuration

**USB Backup**

**USB HDD:** USB HDD 1, 553MB available ▼ \* Please format the HDD

LNZ4001       LNE3003

Channel 5       v1.0.0.5-2

The USB hard disk(s) will be listed in the drop-down menu displaying the remaining disk space. Make your selection from the drop-down menu if you have more than one disks connected to the NVR.

**USB HDD:** USB HDD 1, 553MB available ▼ \* Please format the HDD

**Channel:**  LNZ4001       LNE3003

Channel 5       v1.0.0.5-2

Channel 9       Channel 10

Channel 13       Channel 14

Next, select channels, which you would like to backup the recording data from. Maximum 4 channels can be selected at once

**Start Time:** May 21, 2010 ▼ 16 : 52 : 02 ▲ ▼

**End Time:** May 21, 2010 ▼ 16 : 52 : 02 ▲ ▼

**Backup**

Configure the start and end time of the recording data you would like to backup and click the "Backup" button to begin.

### Things to pay attention to the USB Backup function

#### Limitation:

- It does not support USB Hub extend the number of HDD connected to the NVR

- Only one backup process can be performed at a time
- Maximum 4 channels can be selected for backup
- Only FAT32 USB hard disk is supported for backup
- The USB hard disk needs to have more than 100MB remaining space
- If multiple partitions are presented in one disk, only the first partition will be detected and used for backup

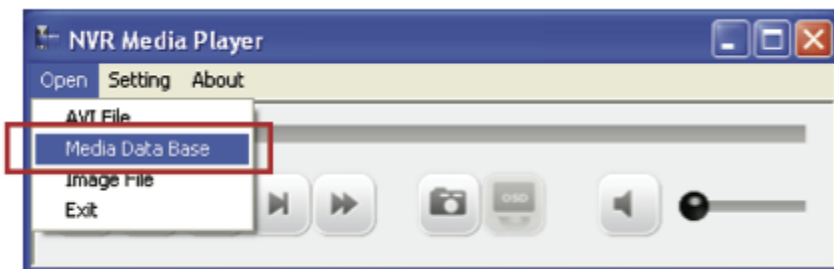
Process:

- Progress will be displayed on the UI
- If the backup process gets interrupted, which the process stops at a point of time that is before the "END Time" user defined, such time will be displayed on the UI
- A folder will be automatically created in the USB hard disk with a name format like 0028687831\_20100610151515\_20100605110010\_20100606110010 (MAC\_backupbuttonclicktime\_starttime\_endtime)

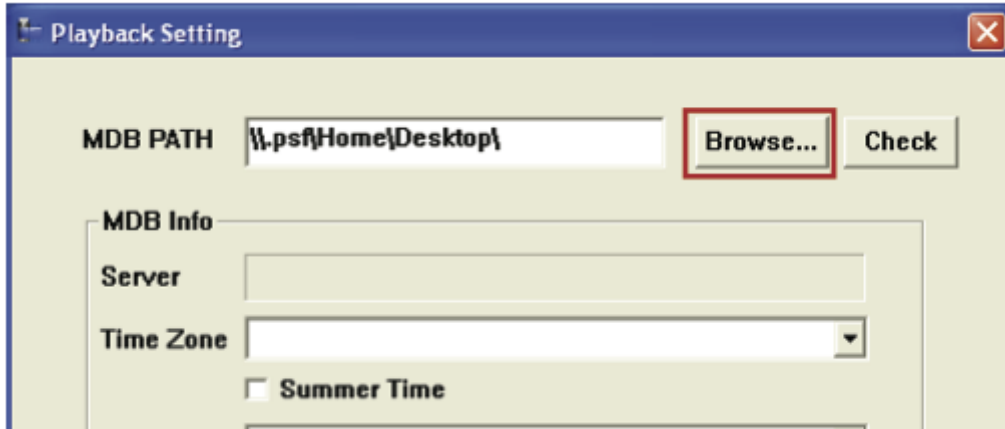
Note:

- Please plug in the USB HDD only after the NVR is fully started, or the HDDs will be incorrectly mounted.

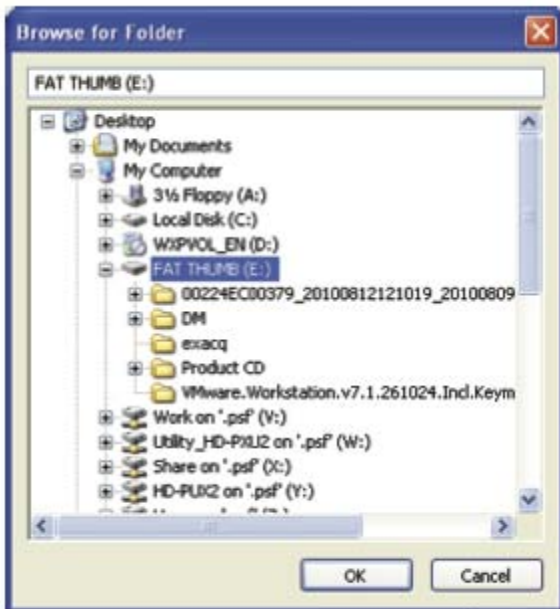
### Play the backup file with the NVR Media Player



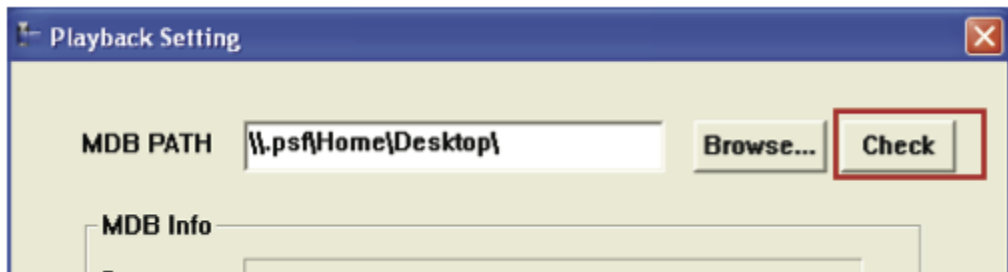
The backup files can be played with the NVR media player. To do, open the player and select "Open" >> "Media Database"



Click "Browse..." to select the file from the USB disk.

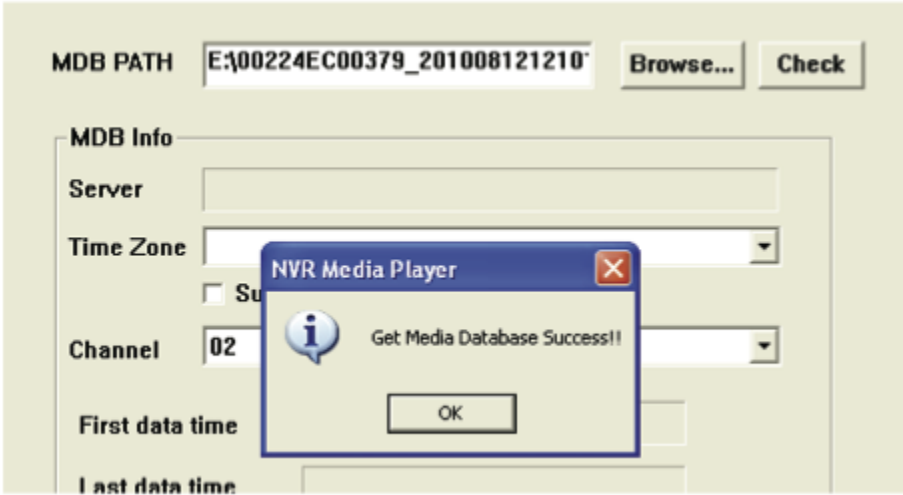


A new dialog should be prompted for you to select the file location.



When done, click "Check" to validate the file.





Once the file has been successfully verified, you should be prompted with the message shown below.



Select the time zone according to your current location.

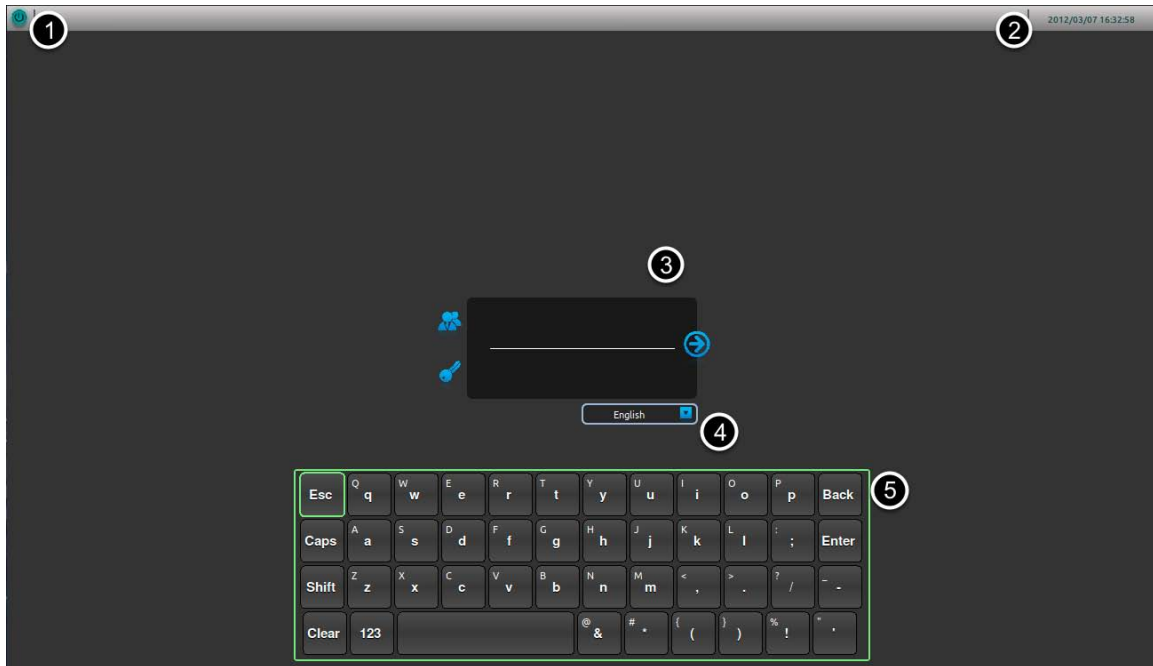


Finally, click "OK" to begin playing. The player should now play the backed up file.

# Local UI from HDMI Output

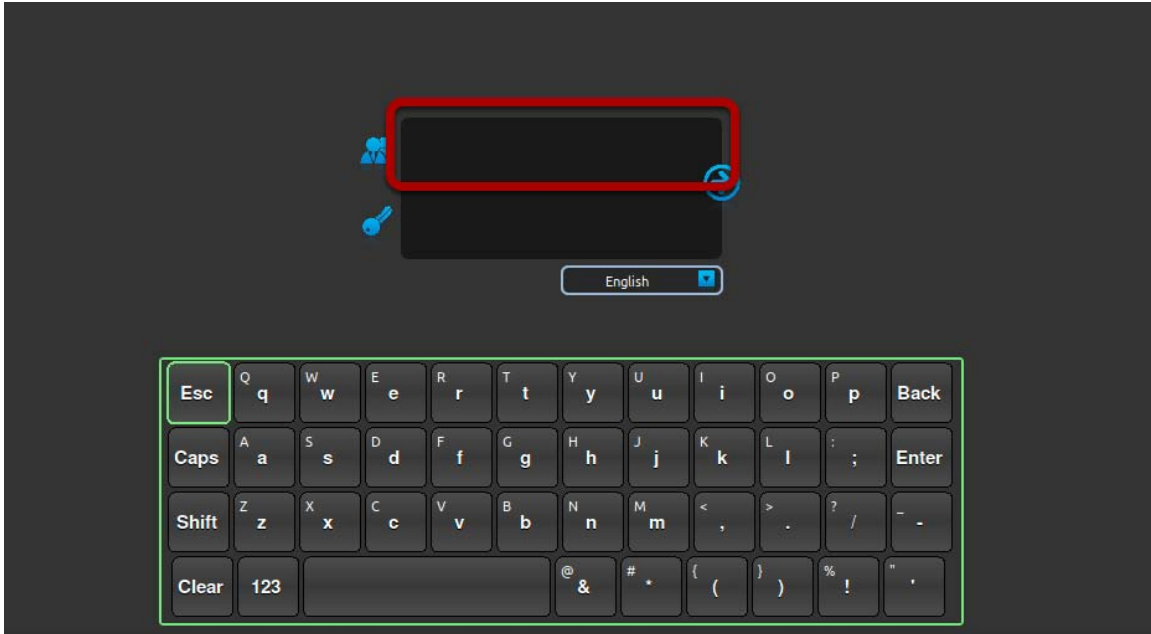
## Live View

### Login screen



You should be prompted with the login screen first when the NVR is fully started.

1. Power button
2. System Time
3. Username/Password
4. Display language selection
5. Virtual keyboard

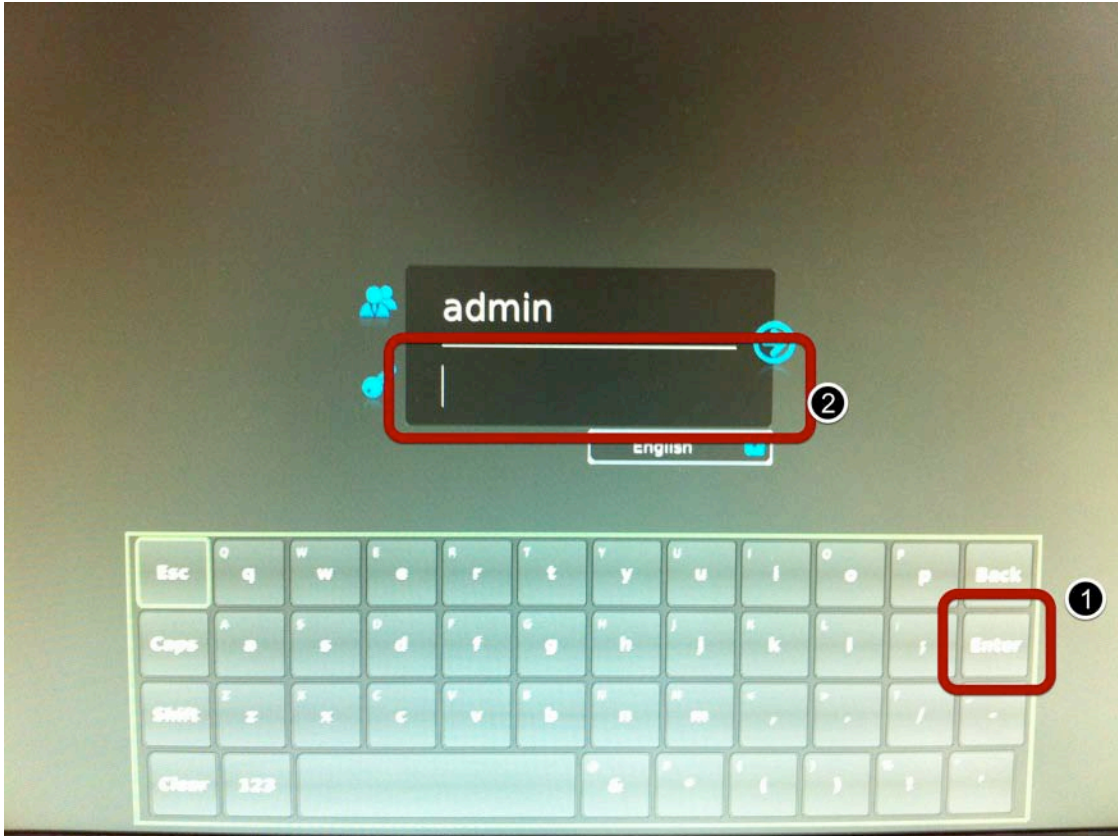


By default, the focus should be on the username field.

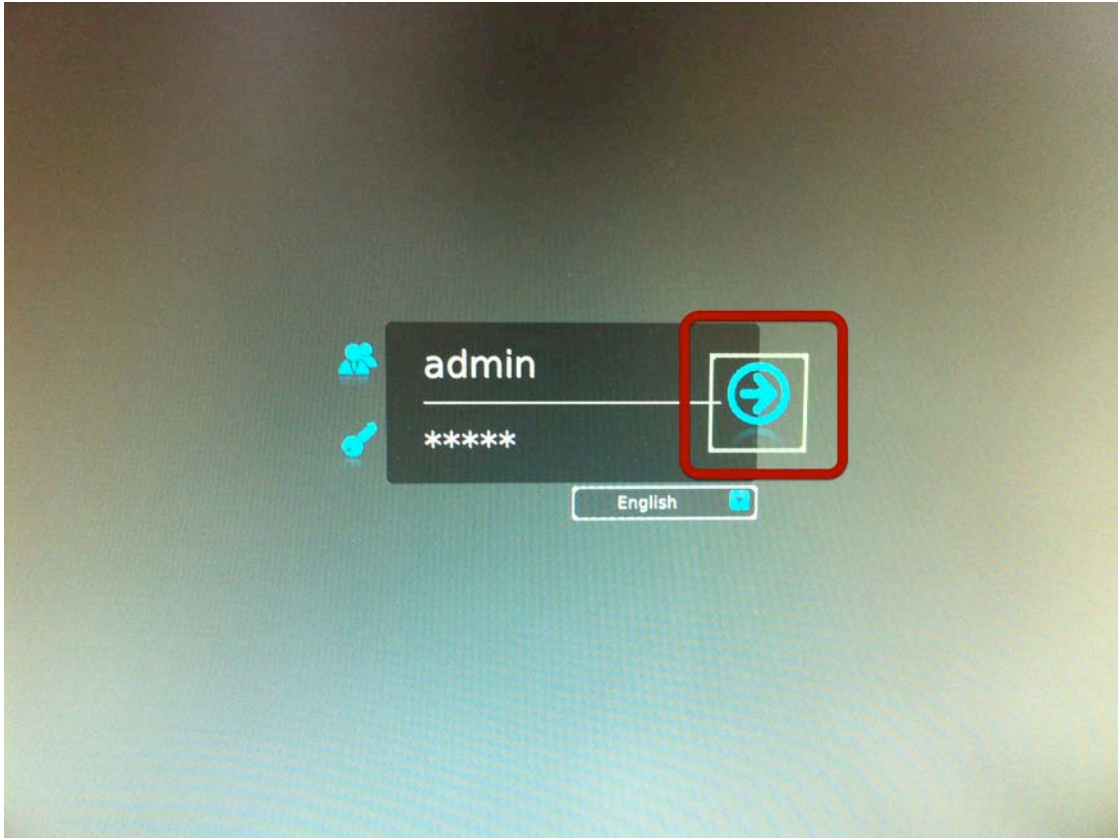
## Remote control



Simply use the directional buttons on the remote to move between the keys on the virtual keyboard. If you have a USB mouse plugged into the NVR, a mouse cursor will appear on the screen and you can use the mouse to select keys on the virtual keyboard as well. Press the "OK" button on the remote to make the selection.

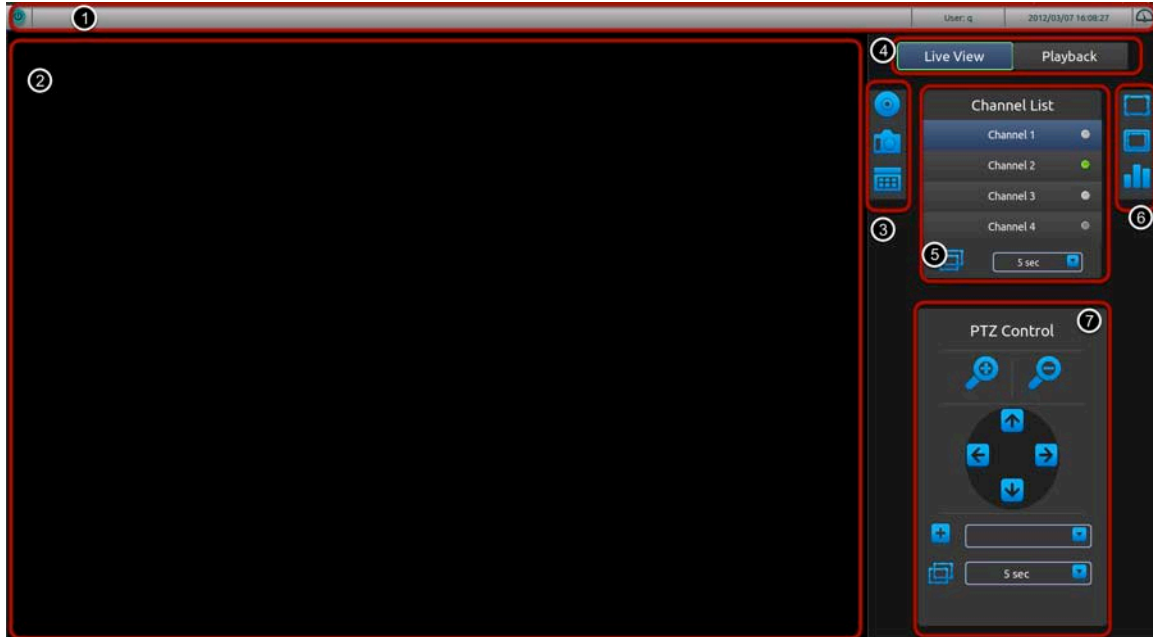


Enter the default username "admin" by using the virtual keyboard. When done, select the "Enter" button on the virtual keyboard and the focus should be moved to the password field.



After the default password "admin" is entered as well, select the "Enter" button on the virtual keyboard again and the focus should be moved to the "Log in" icon. Press the "OK" button on the remote to log in.

## Live View



The Local UI basically provides the view functions of both live video and playback video. The Local UI provides viewing video of 1 channel at a time, both live and playback.

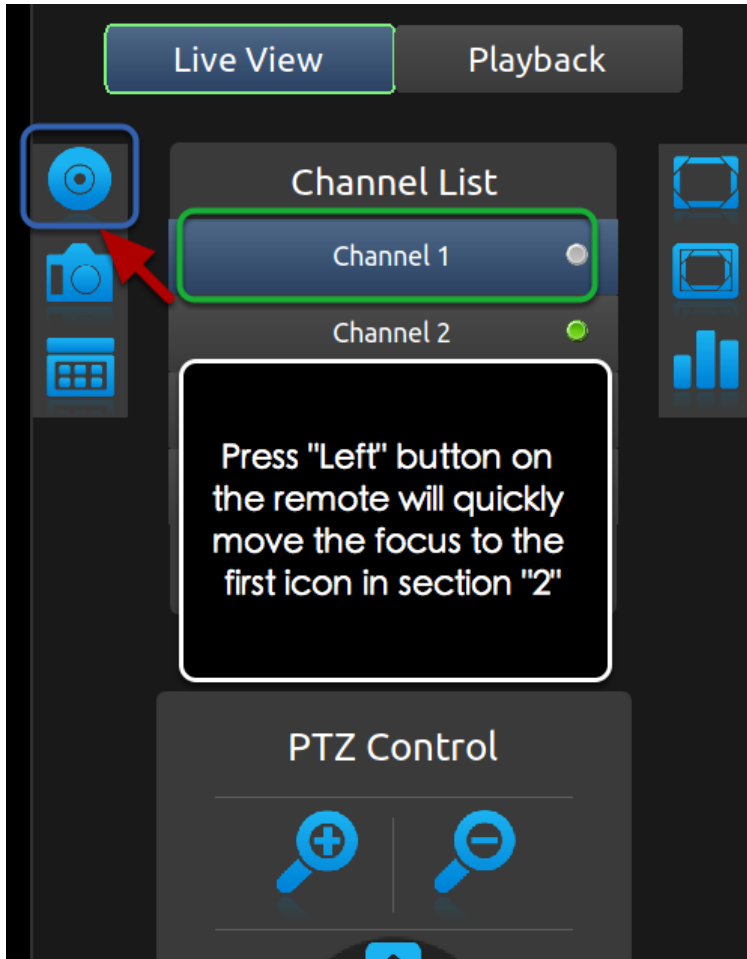
1. Top bar (the power, logged in user, system time and dashboard are placed in this area)
2. Video area
3. Functions for live video (From top down: start/stop manual recording, take snapshot, set location of the "Picture-in-picture" live event video coming from other channel)
4. Main menu
5. Channel list including status and start sequence viewing
6. From top down: full screen, display video in its original size, channel status
7. PTZ control (Pan, tilt, zoom, add preset point, preset point sequence viewing)



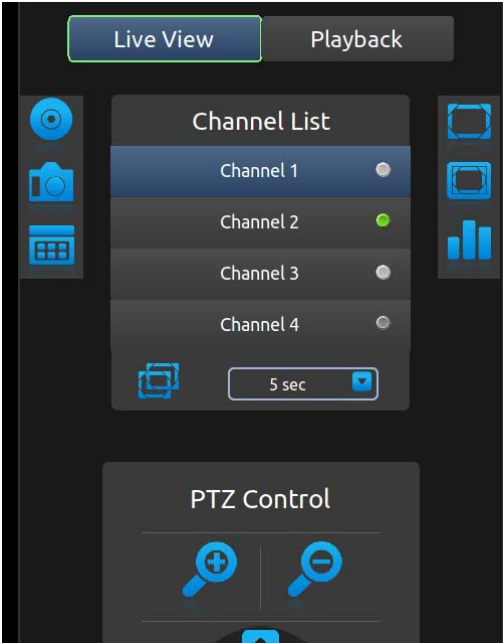
### Side menu



By default, the selection focus should be on "Channel 1' on the Channel List. The side bar is basically divided into three sections. At any point, you can use the "Left" or "Right" button on the remote to quickly move to each section.



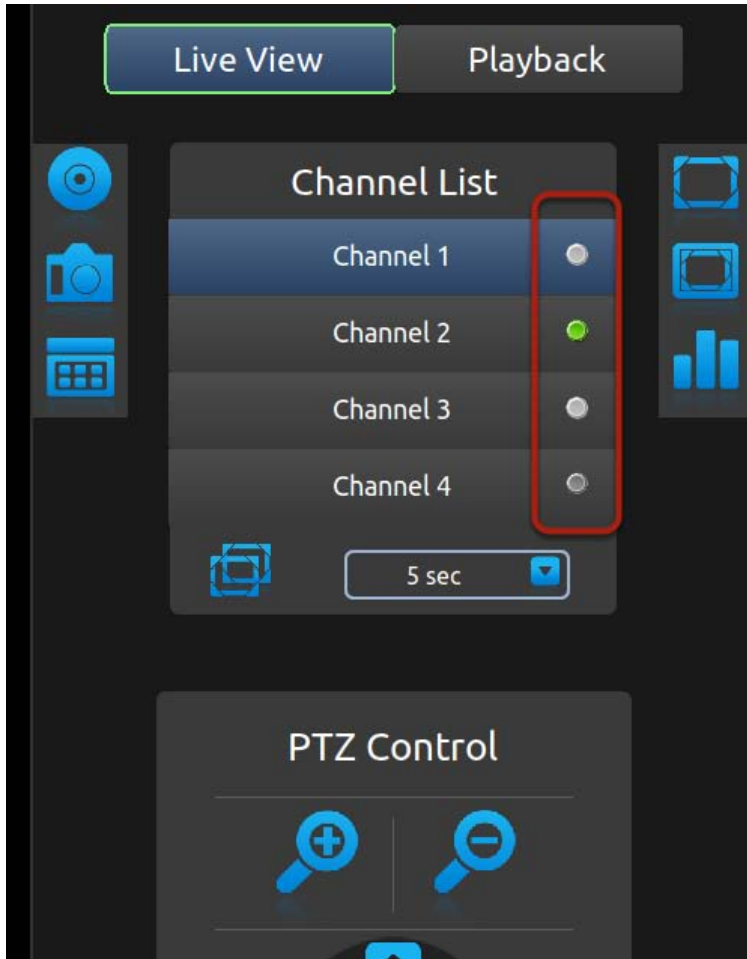
For example, if the selection focus is currently on "Channel 1" (or anywhere in the section "1"), press the "Left" button on the remote will move the focus to the "Manual recording" icon in section "2". Simply use the "Up" and "Down" buttons on the remote to move between icons in one particular section.



Use the "Up" and "Down" buttons on the remote to select a channel on the "Channel List" and press the "OK" button on the remote to make the selection. Alternatively, if a USB mouse is connected to the NVR, you can use the mouse and move the cursor to a channel and left-click to make the selection.



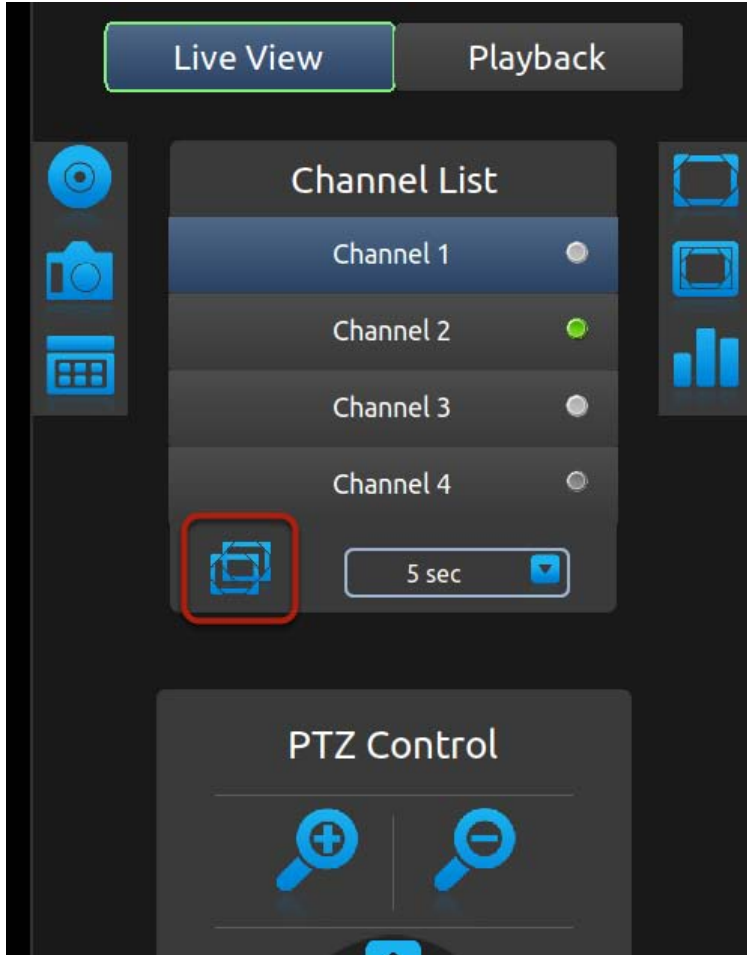
You can also use the channel selection buttons on the remote to quickly jump to a desired channel.



The small dots on the side of the "Channel List" provide the current status of each channel:

- \* White: Disconnected
- \* Blue: Connected
- \* Green: Recording
- \* Dark grey: Not configured

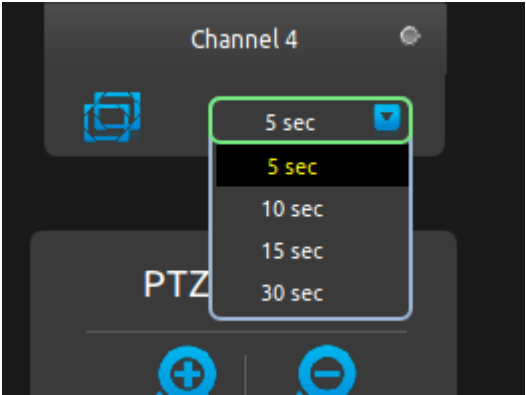
## Sequence view



If the current selection focus is on "Channel 4", press the "Down" button on the remote should move the focus to the "Sequence viewing" icon. Press the "OK" button on the remote will start sequence viewing between all available channels with default 5-second interval. Press the "OK" button on the remote again will stop it.



When the focus is on the "Start/stop sequence view" icon, press the "Right" button on the remote will move the focus to the sequence interval drop-down menu.

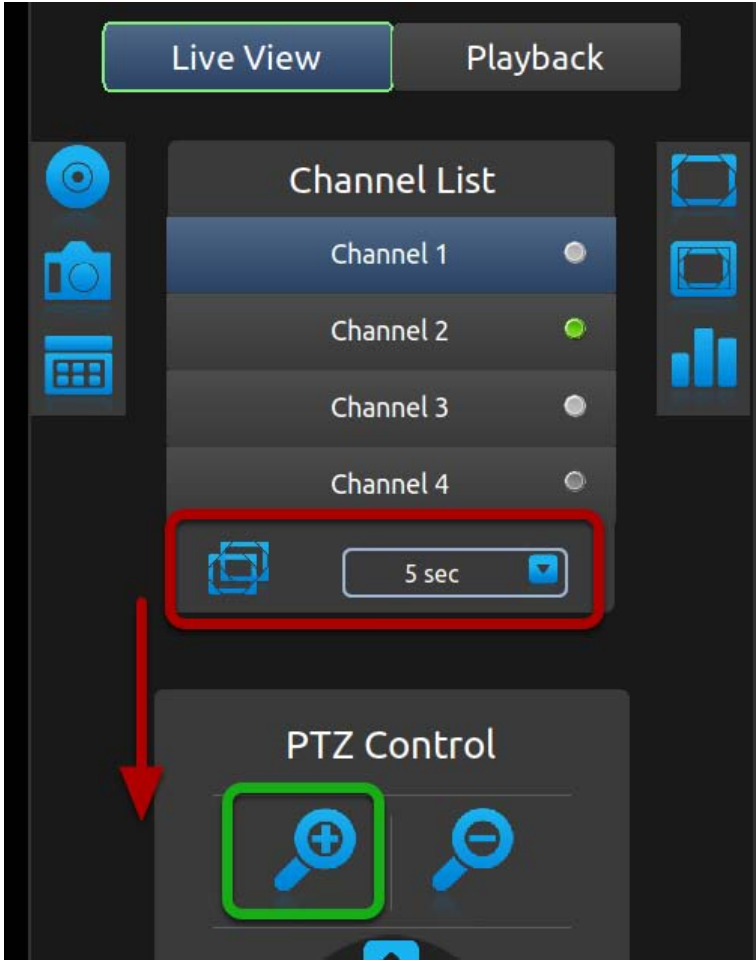


Press the "OK" button on the remote should display all options in the drop-down menu. Use the "Up" and "Down" buttons on the remote to move between selections and press the "OK" button to select the new interval.



You can also quickly start/stop sequence viewing by using the "SEQ" button on the remote.





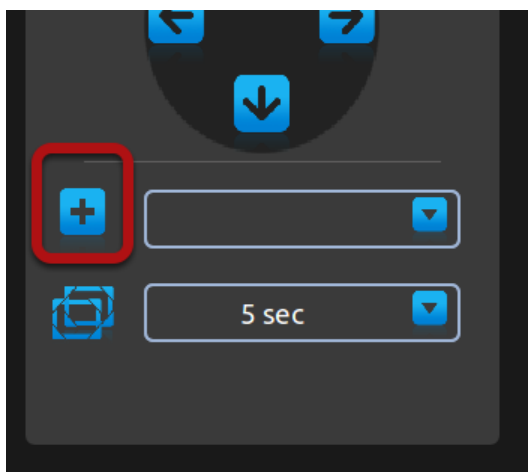
If the selection focus is on either the "Sequence view" or the "Sequence interval", press the "Down" button on the remote should move the focus to the "Zoom" icon in the PTZ control area.

## PTZ Control



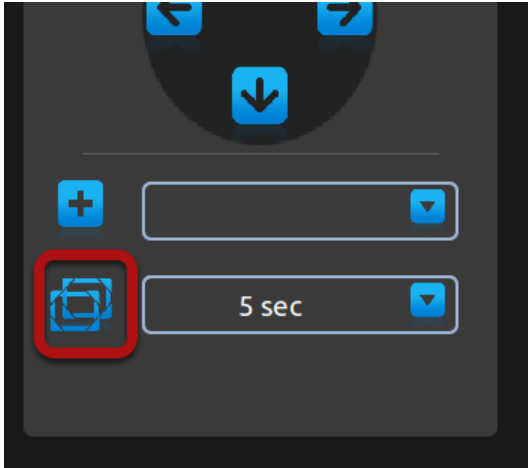
Once you are in the PTZ control area. Use the directional buttons on the remote to move between icons.

### Add preset points

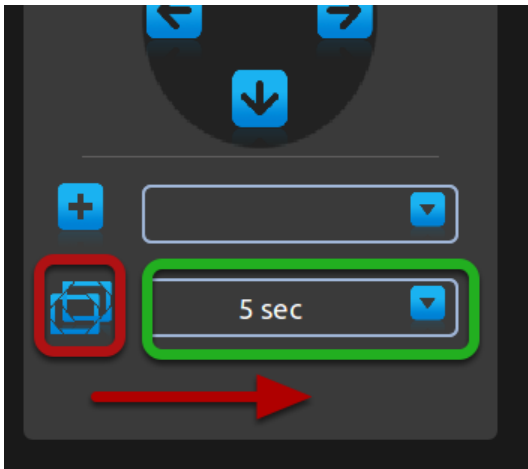


Move the selection focus to the "Add preset point" icon and press the "OK" button on the remote will add the current live video as a preset point.

### Preset point sequence view



Once you have multiple preset points added, press the "Down" button on the remote to select the "Preset point sequence view" icon. Press "OK" button on the remote to start sequence view between previously added preset points. Press "OK" again to stop.



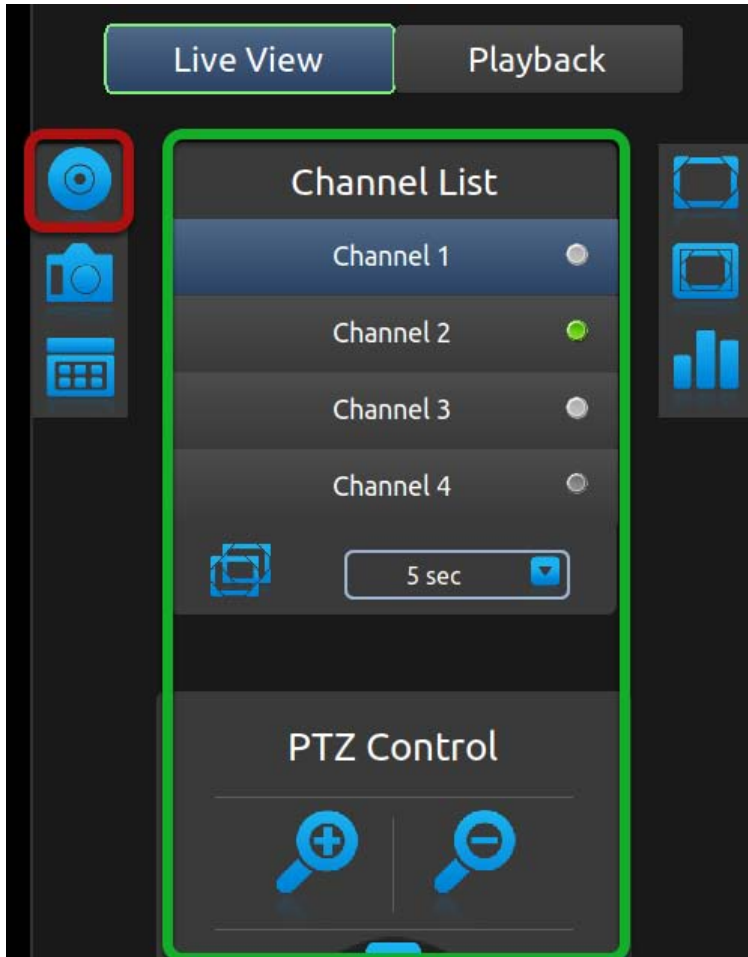
When the focus is on "Preset point sequence view" icon, press the "Right" button will move the focus to the preset point sequence view interval drop-down menu. Press the "OK" button on the remote will pull down the menu and use "Up" and "Down" buttons on the remote to move between selections. Press the "OK" button again to make the selection.



At any point in Live View, you can enter the PTZ mode by:

1. Pressing the "PTZ" button on the remote
2. Use the directional buttons to simulate pan, tilt, zoom actions as well as jumping through preset points.

## Manual Recording



Recording can be manually started when viewing live video. If the selection focus is somewhere in the green highlighted area shown above, press the "Left" button on the remote will move the focus to the manual recording icon. Press the "OK" button on the remote to start recording right away.

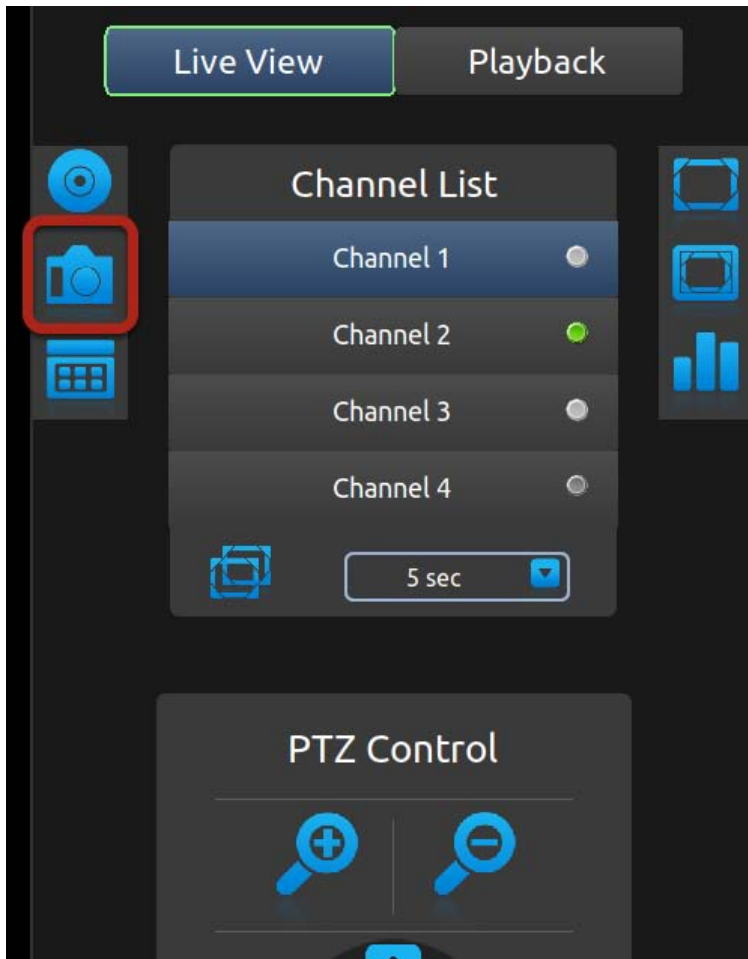


You should see an on-screen text notification indicating the recording has been started.



Alternatively, you can press the "REC" button on the remote start recording of the current viewing channel right away. Press it again to stop.

## Take snapshot



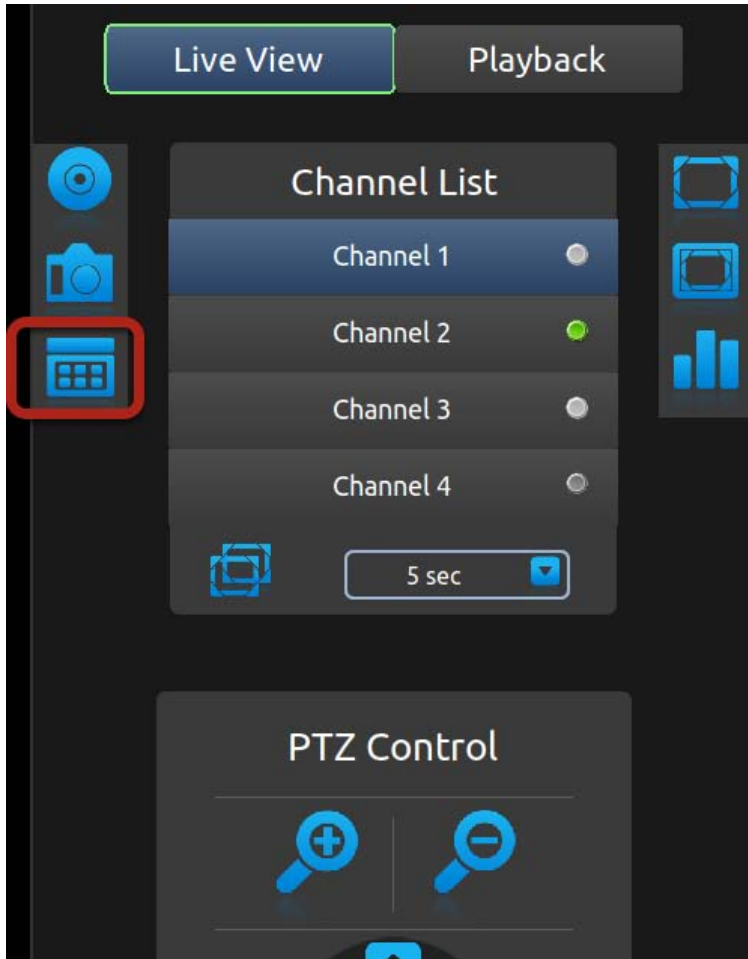
Before taking a snapshot of the live video, please make sure a FAT32 formatted USB drive is plugged into the NVR. If you had "Manual recording" icon selected, press the "Down" button on the remote to select the "Snapshot" icon. Press the "OK" button on the remote to take a snapshot.



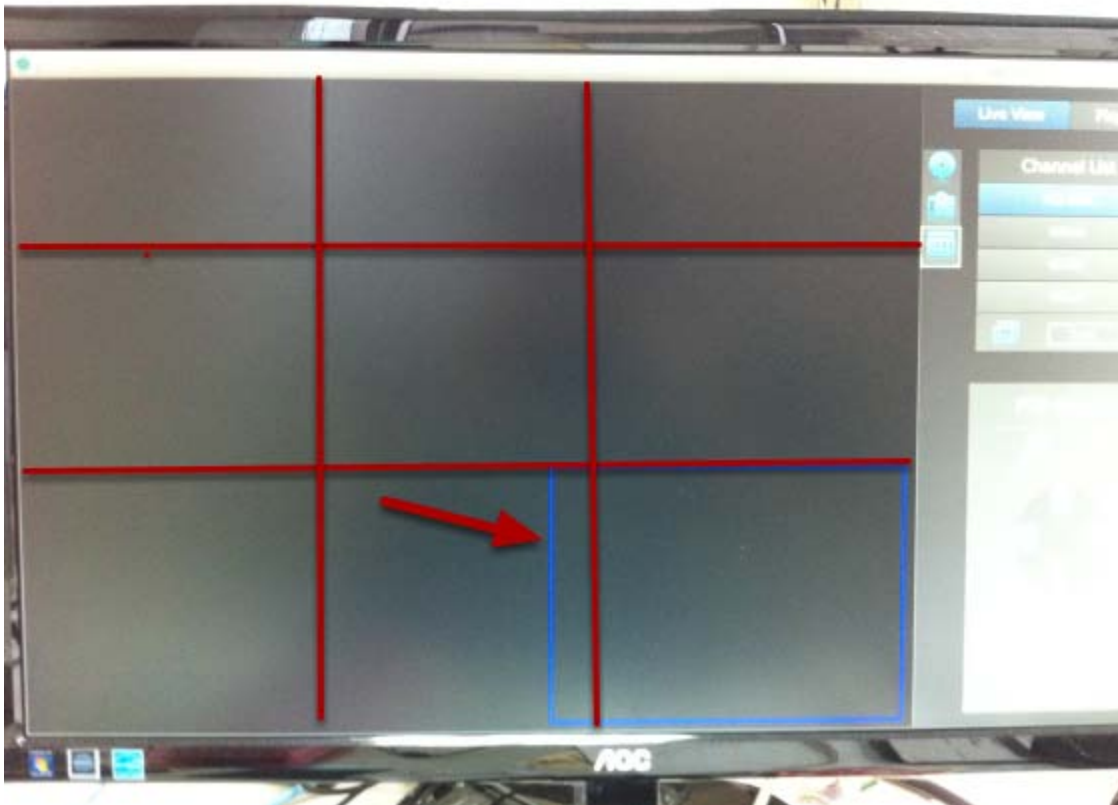
You should see an on-screen text notification indicating that a snapshot of the video has been taken.



### PIP (Picture-in-picture) Event Video



The local UI provides live video view of 1 channel at a time. However, you can set a PIP (Picture-in-picture) area on top of the live video, which displays video of another channel when an event occurs. Once you have selected the icon shown above, press the "OK" button to set PIP area on the live video.



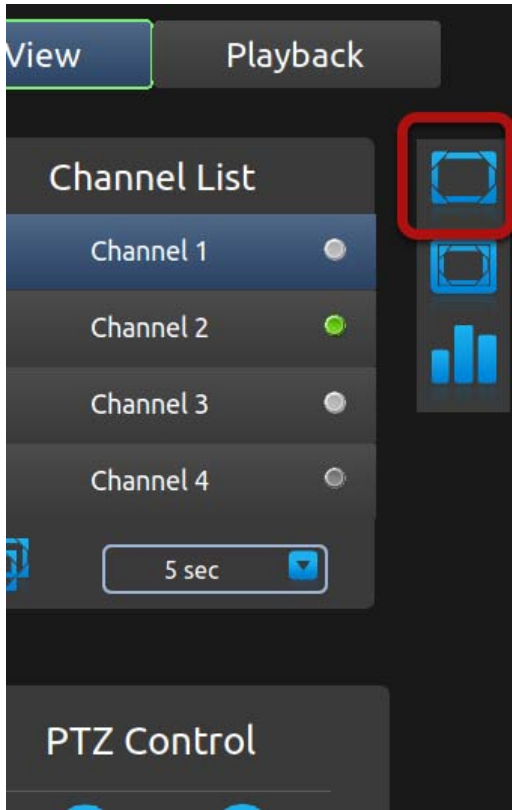
You should see an area with blue border displayed on the live video area. Use the directional buttons on the remote to select a desired area. You are able to choose from up to 9 different areas. When done, press the "OK" button on the remote to confirm selection.

### Turn on Audio



The local UI is capable of playing audio coming from the camera side, but it is not turned on by default. To turn on audio from the current viewing channel, press the "AUDIO" button on the remote. Press it again to turn off the audio.

### Full Screen

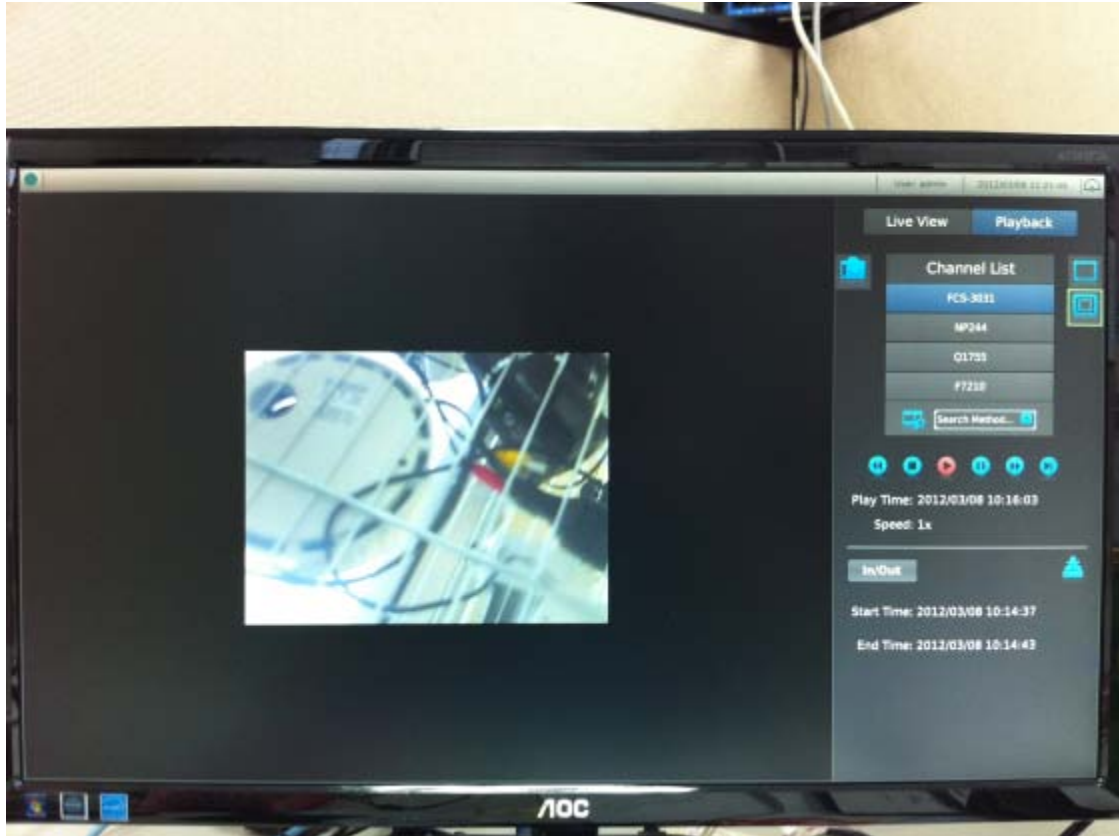


To view video in full screen, press the "Right" button on the remote and move the selection focus to the full screen icon (as shown above). Once selected, press the "ENTER" button on the remote to enter full screen view. Click the "BACK" button on the remote control to exit.



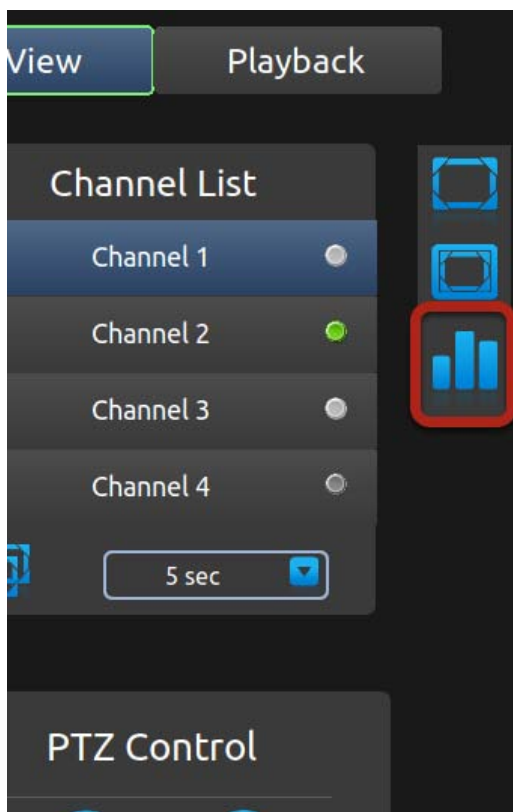
Alternatively, you can quickly go into full screen mode by pressing the "FULL SCREEN" button on the remote. Press the "BACK" button to exit.

## Display video in its original size

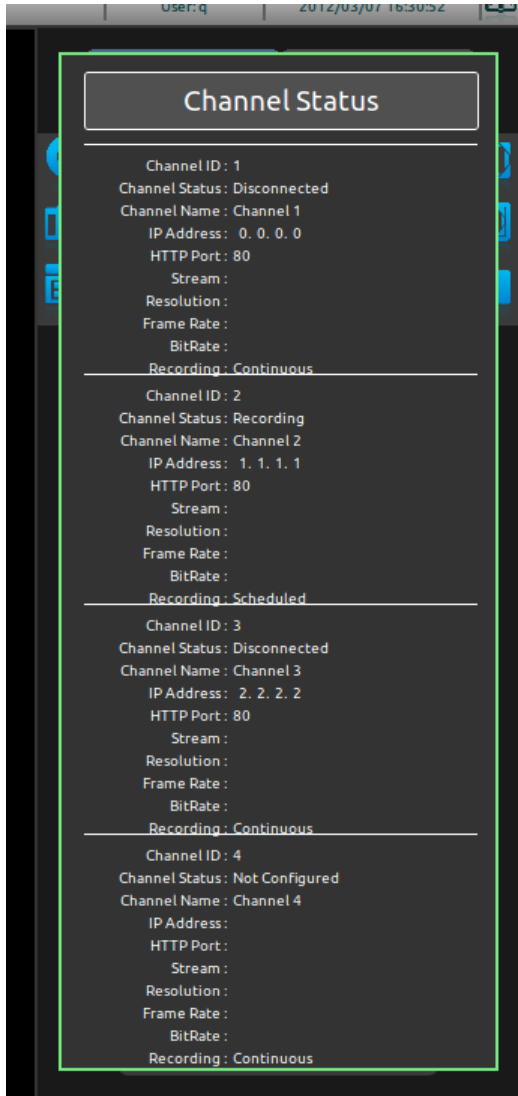


By default, the video is scaled to fill the entire video area. To view the video in its original size, select the icon shown above and press the "OK" button on the remote to display the video in its original size.

## Detail channel status



Select the icon shown above and press the "OK" button on the remote will give you a detail current status of all four channels.



Press the "BACK" button on the remote to dock it away.

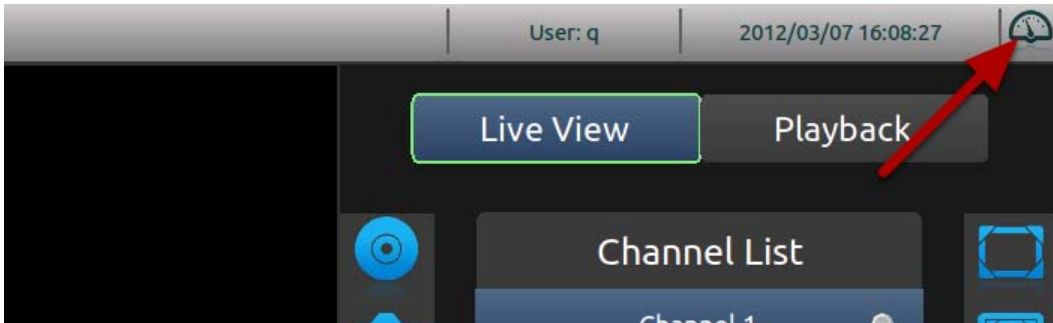
## Dashboard

The dashboard is divided into several sections:

- General Information:** Device Name: SVR204, Model Name: Network Video Recorder, Firmware: 1.0.0.0000000, Device Time: since 1 year 2 months 3 days 4 hours 5 minutes and 6 seconds, Current Time: 2012/03/07 16:31:13, Logged in as: q.
- Network Settings:** Network Type: DHCP Client, Device IP: 192.168.1.10, HTTP Port: 80, Streaming Port: 23456, MAC Address: 00:00:AA:BB:CC:DD, UPnP port forwarding: Enabled, DHCP Server: Off.
- DHCP Clients:** A table with columns: Index, IP Address, MAC Address.
- HDD Status:**

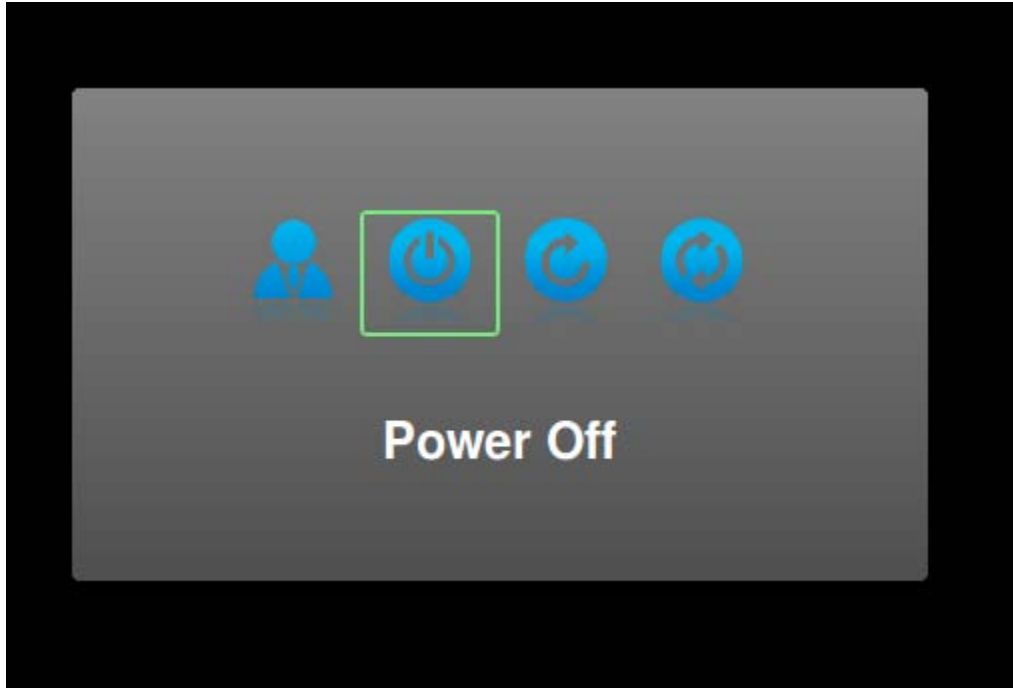
Disk ID	Status	Capacity	Remaining Disk Space	Remaining	Recording Period	Est. Remaining Time
1	Offline	1024GB	512GB	50%	2012/3/7 16:31:13 - 2012/3/7 16:31:11 2012/3/7 16:31:13 - 2012/3/7 16:31:11	1 days 16 hours
2	Recycling	2048GB	1024GB	50%	2012/3/7 16:31:13 - 2012/3/7 16:31:13 2012/3/7 16:31:13 - 2012/3/7 16:31:13	3 days 8 hours
- Channel Status:**
  - Channel ID: 1, Channel Status: Disconnected, Channel Name: Channel 1, IP Address: 0. 0. 0. 0, HTTP Port: 80, Stream: , Resolution: , Frame Rate: , BitRate: , Recording: Continuous.
  - Channel ID: 2, Channel Status: Recording, Channel Name: Channel 2, IP Address: 1. 1. 1. 1, HTTP Port: 80, Stream: , Resolution: , Frame Rate: , BitRate: , Recording: Scheduled.
  - Channel ID: 3, Channel Status: Disconnected, Channel Name: Channel 3, IP Address: 2. 2. 2. 2, HTTP Port: 80, Stream: , Resolution: , Frame Rate: , BitRate: , Recording: Continuous.
  - Channel ID: 4, Channel Status: Not Configured, Channel Name: Channel 4, IP Address: , HTTP Port: , Stream: , Resolution: , Frame Rate: , BitRate: , Recording: Continuous.

The dashboard provides a detail overview of the system wide information, such as network settings, disk status, and channel status. Press the "BACK" button on the remote to exit.



The dashboard is located in the upper-right hand corner and presses the "Up" button on the remote until the selection focus is on the dashboard icon. Press the "OK" button to enter dashboard.

## Power off



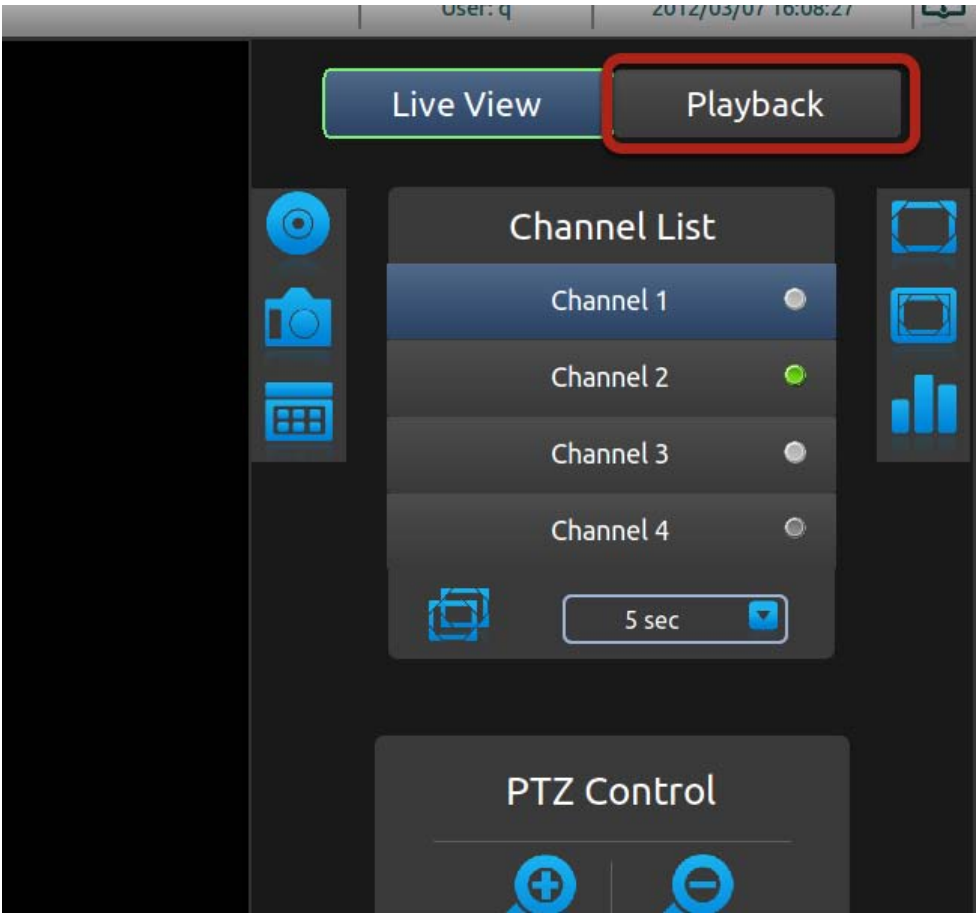
To power off the unit, press the "POWER" button on the remote. A dialog will be prompted and the "Power Off" option should be selected. Press the "OK" button on the remote to turn off the unit.

There are four options in the prompted dialog and they are (from left to right):

1. Log out
2. Power off
3. Restart
4. Reset to factory default



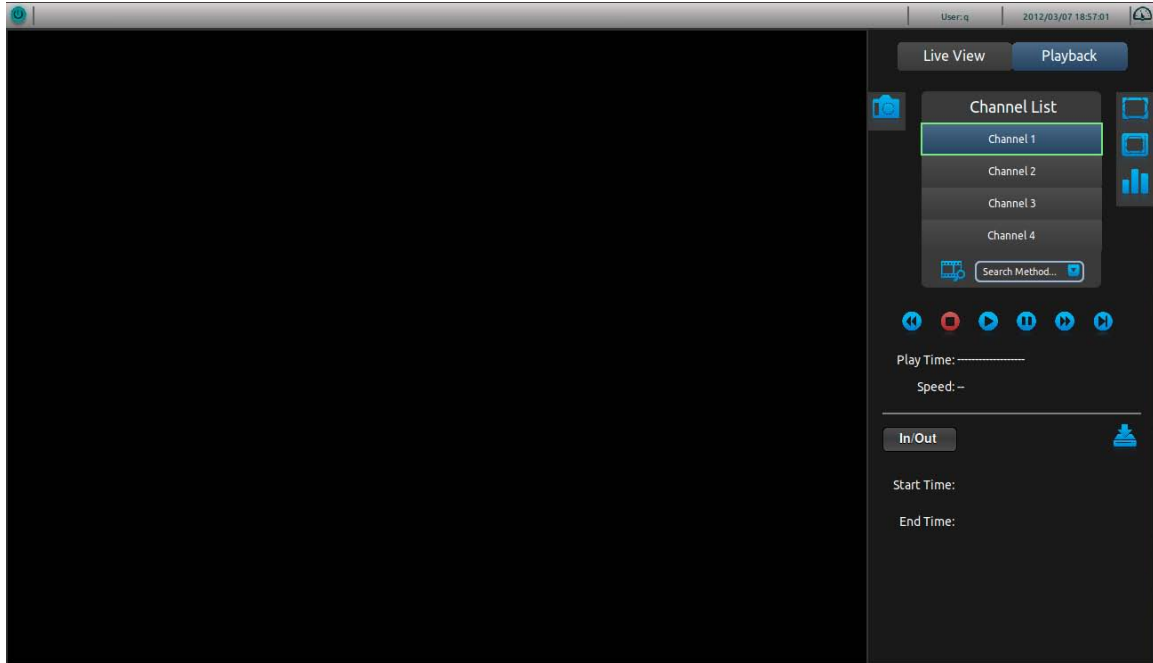
### Playback



To switch to Playback, move the selection focus to the Playback button shown above and press the "OK" button on the remote.

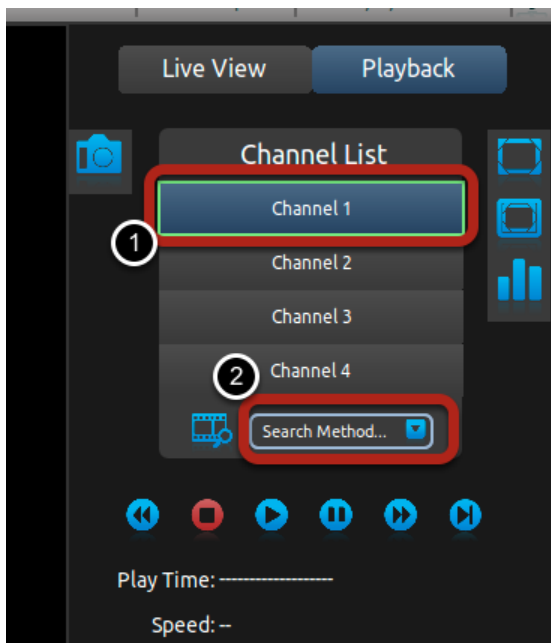


You can always use the remote to quickly switch between Live and Playback functions

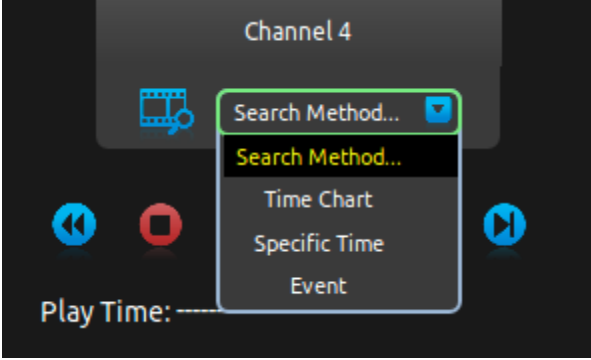


The Playback UI provides the similar layout as the live video UI. They also share the same following functions:

1. Take snapshot
2. Full screen
3. Display video in its original size
4. Channel status

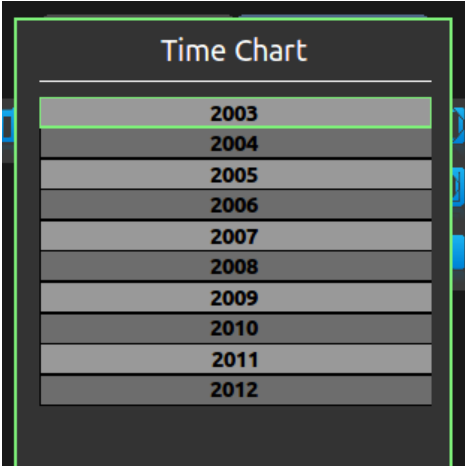


The NVR is able to play recorded video 1 channel at a time. To search for playback video, select a channel from the "Channel List" first and select a search method from the drop-down menu highlighted in the above picture.



There are three different search methods to help you locate the recorded videos.

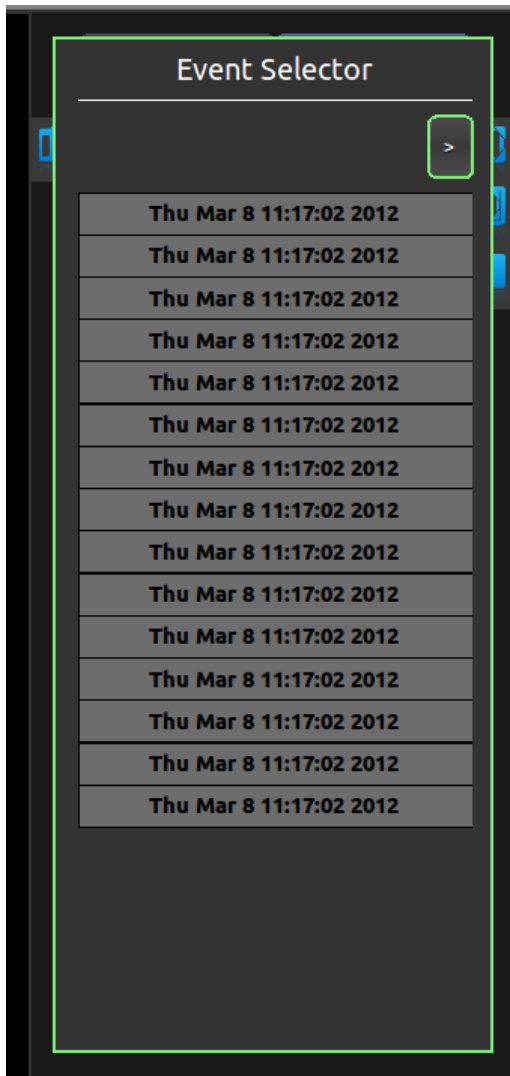
**Time Chart**



Select the "Time Chart" option will display a list in "year". Notice certain years are highlighted in dark grey, which means there are recorded data available in those years. Select one from the list and press the "OK" button on the remote will switch the list to "month" view of the selected year. Repeat the same action and it goes all the way to the "minute" view.

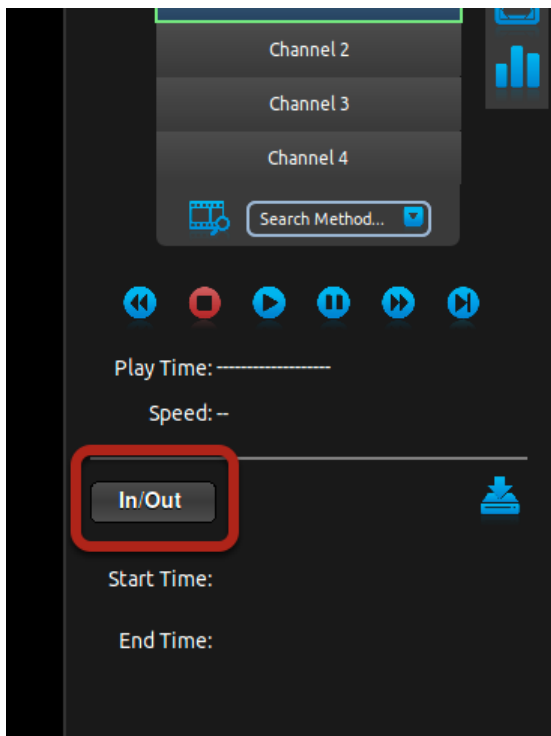


At any point, you can simply press the "PLAY/PAUSE" button on the remote to start playing from the earliest available footage of the current time list on the time chart.

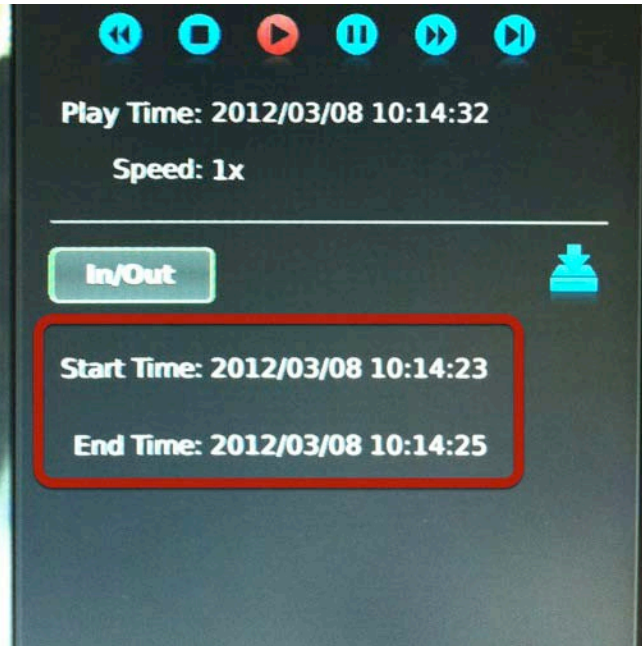


Select "Event" from the search method drop-down menu gives you a list of the 15 most recent events. Simply select one from the list and press the "OK" button on the remote to start playing.

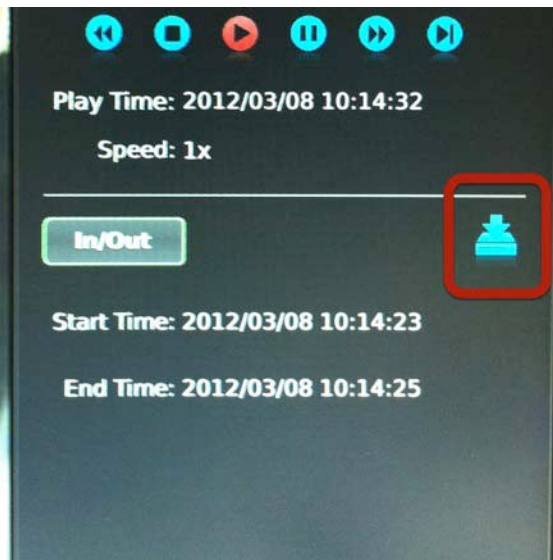
### Export recorded data



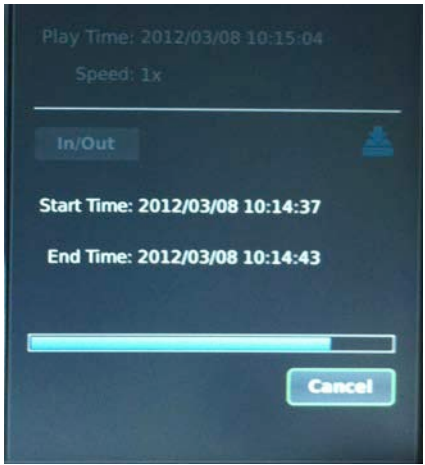
The recording data can be exported to a USB hard disk. Please connect a USB HDD to the NVR first before exporting the recording video. The export can only be done during the playback of the recorded video. During playback, select the "In/Out" button on the UI and press the "OK" button.



This sets a start time of the exported video. Press "OK" again on the "In/Out" button sets the end time. The video of this time frame will be exported.



Next, press the "Right" button on the remote to select the icon highlighted above. Press the "OK" button on the remote to start exporting.

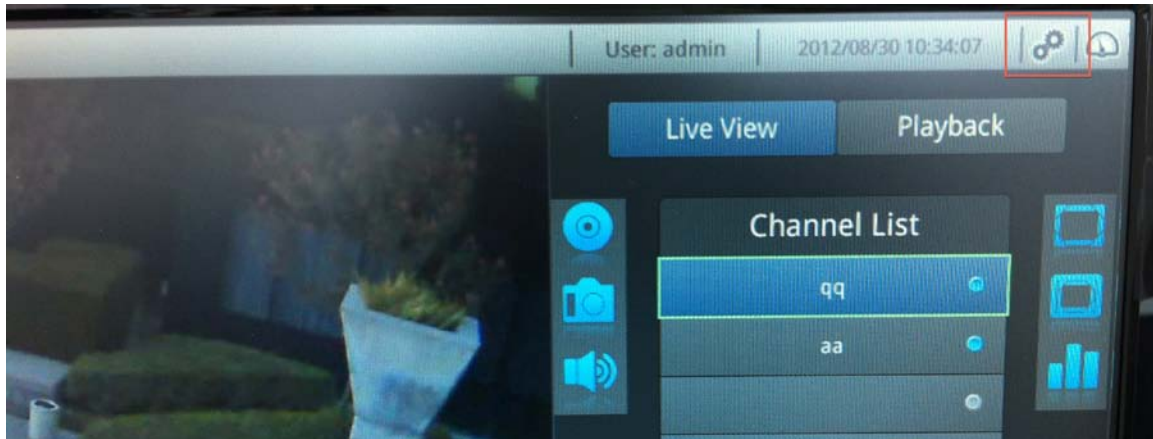


The export progress will be displayed. When done, move the USB HDD to a Windows PC and use the NVR media player to playback the exported video.

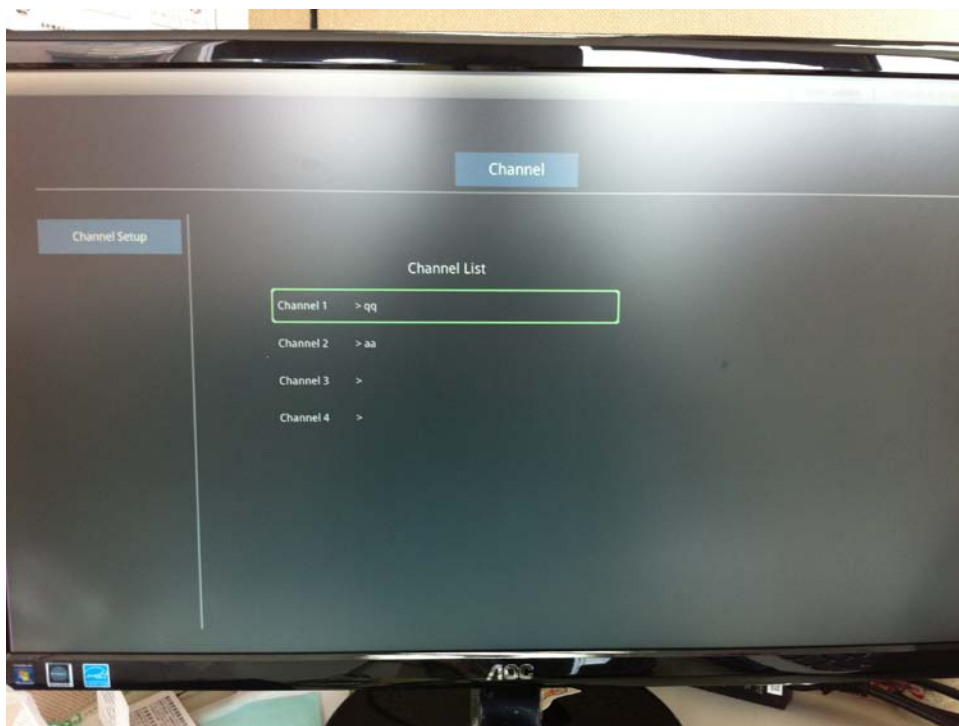
### Camera Setup



Press the "SETUP" button on the remote to access the setup page.

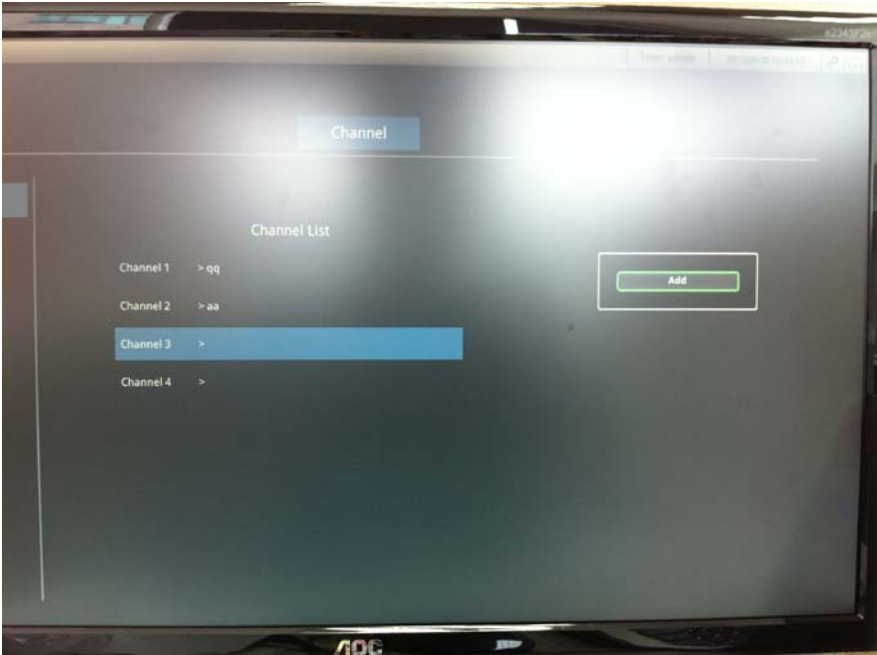


Alternatively, you can use the directional keys on the remote and select the setup icon and press "OK" to go to the setup page.

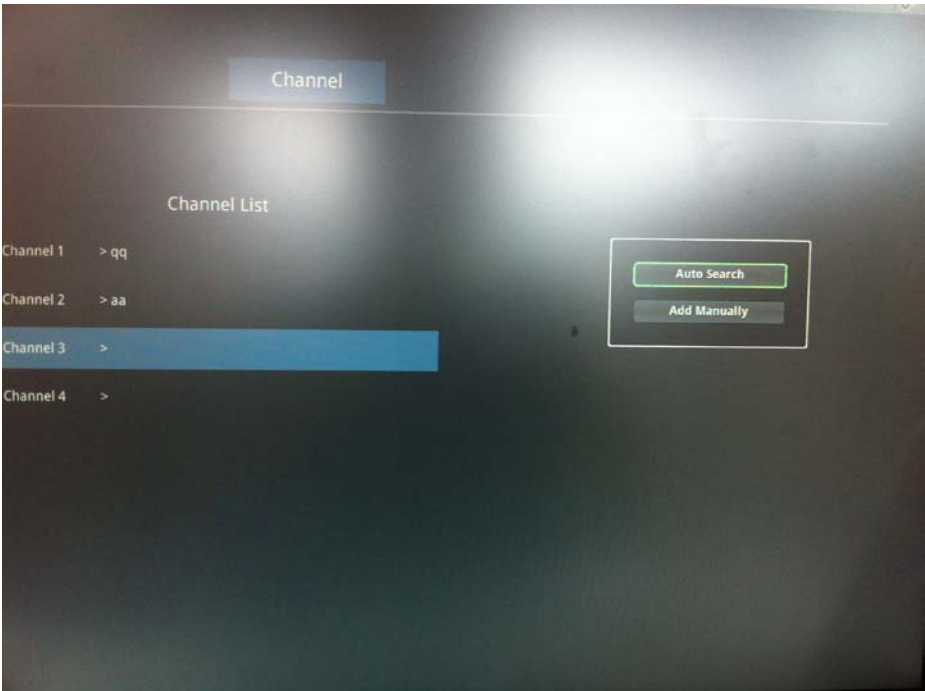


In the setup page, you are able to add, edit, and remove cameras. Select a channel and press the "OK" key to begin.



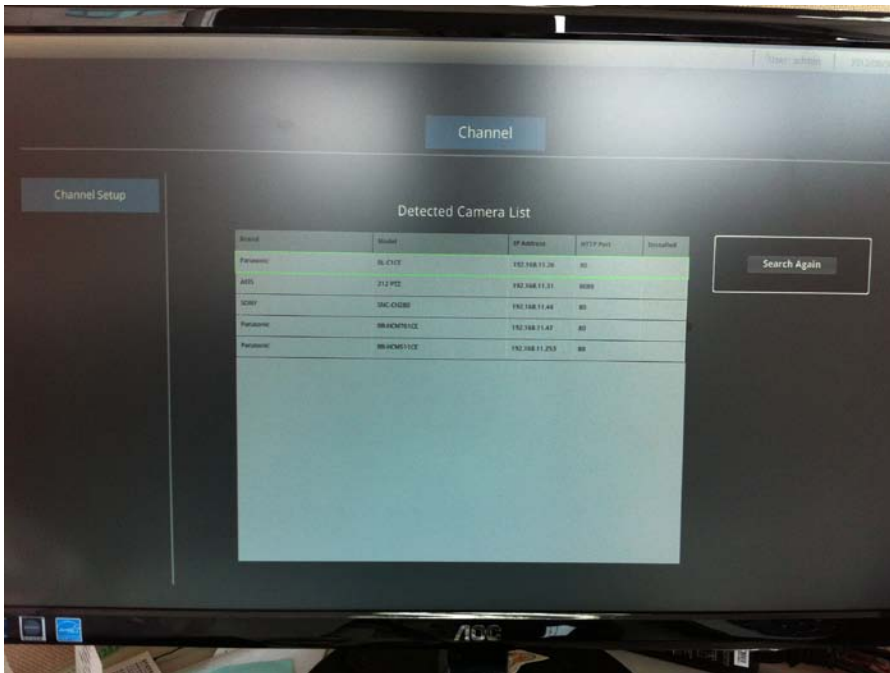


You will be presented with the "Add" action if you press the "OK" key on an empty channel. Click "OK" key again to add a new camera.

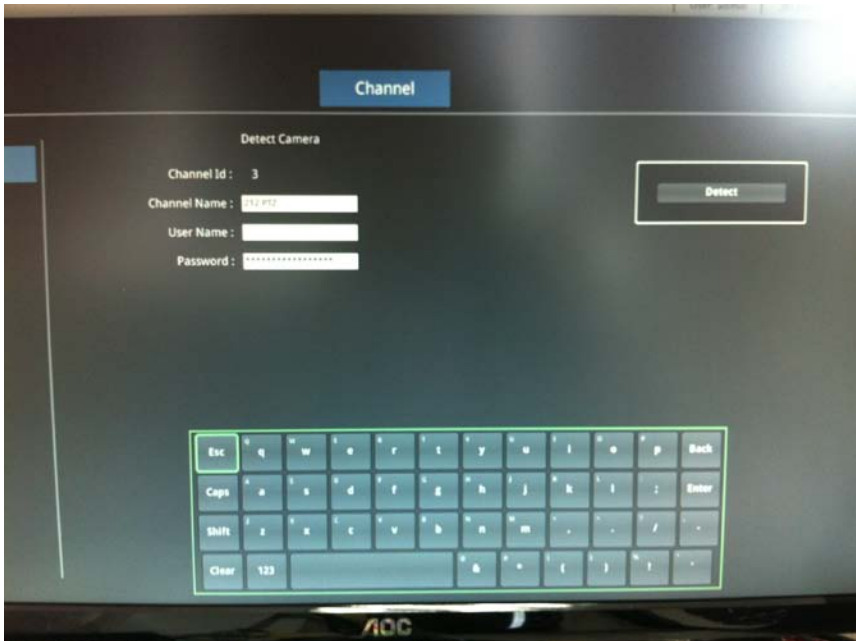


You will then be given with options to add a new camera with auto search or add one manually.

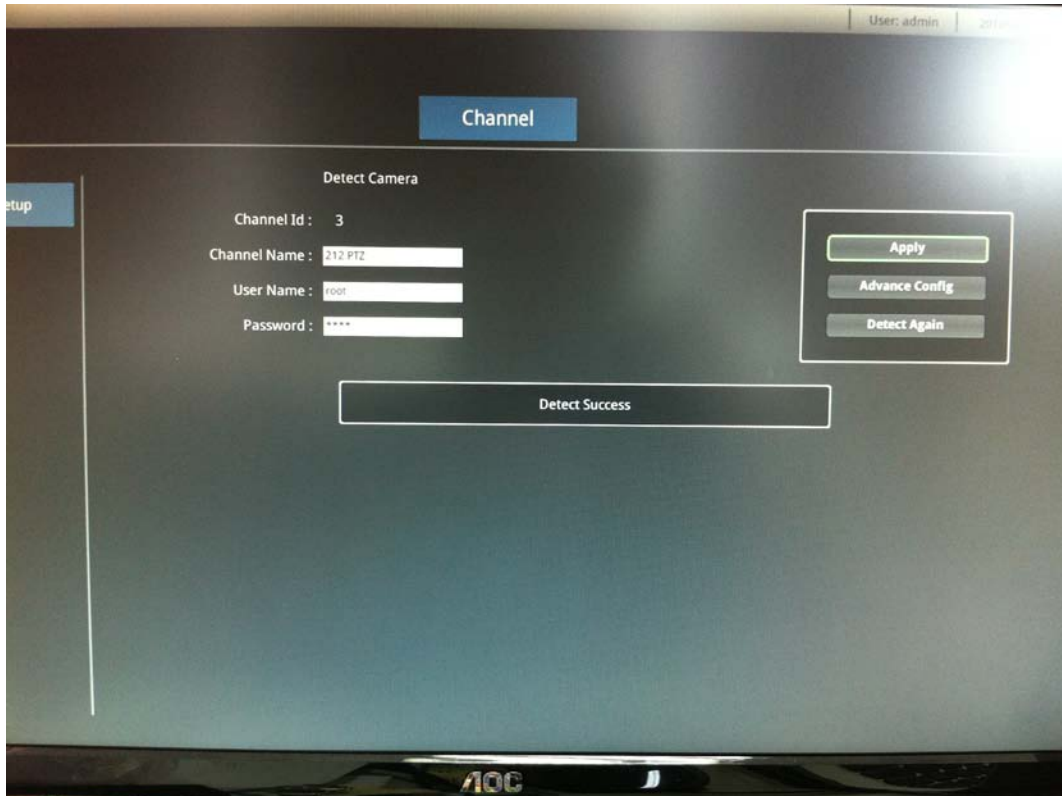
## Add camera with Auto Search



A list of found cameras will be displayed if you chose to use Auto Search. Use the Up and Down key to select a camera and press the "OK" key to add it.



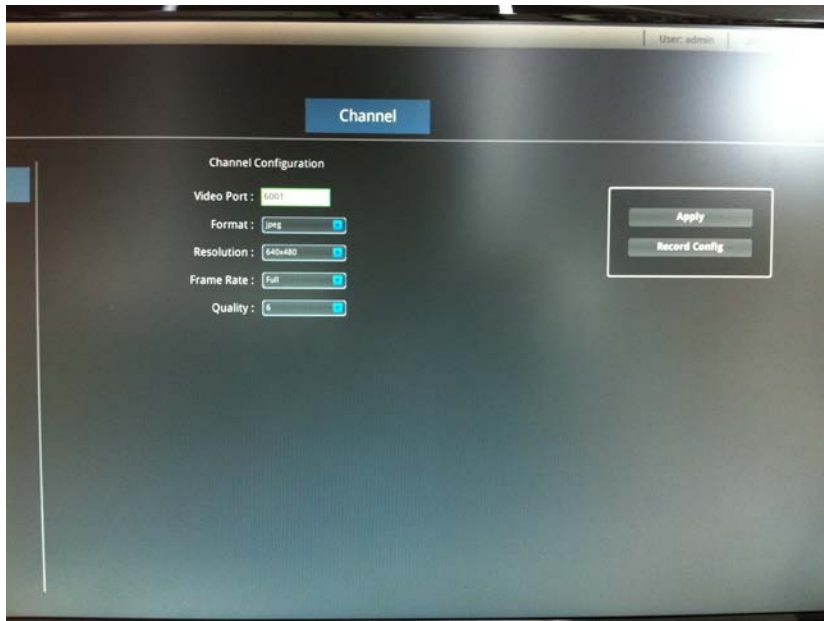
You will then be taken to the next page, which will ask you for the camera's username and password. Use the directional keys on the remote control to work with the on-screen virtual keyboard to enter them. When done, press the "OK" key to begin detection.



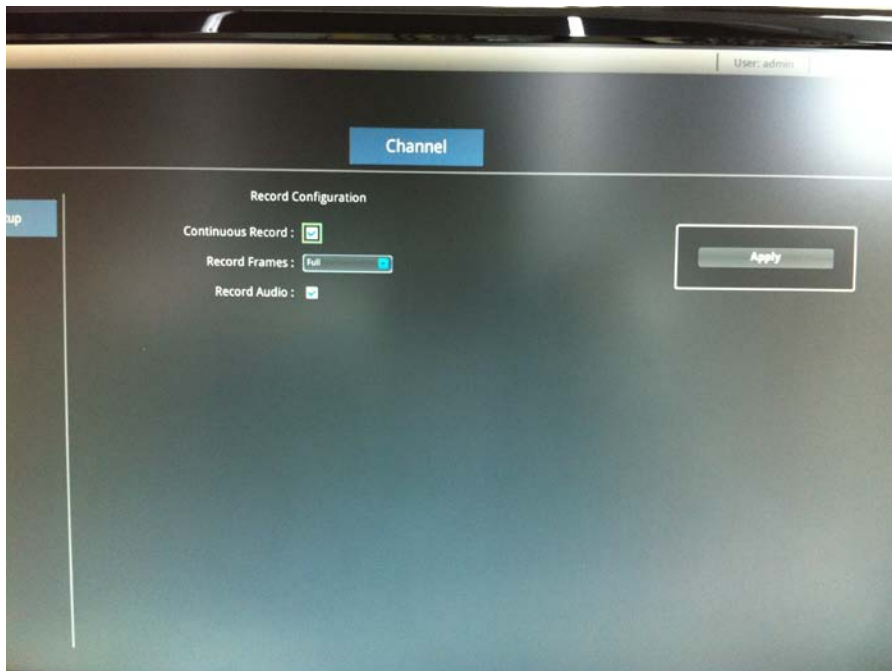
With a successful detection, you will be given options to add camera as is, or select "Advance config" to change current video settings before adding it.

You can choose to run the detection again if you get a detection error.

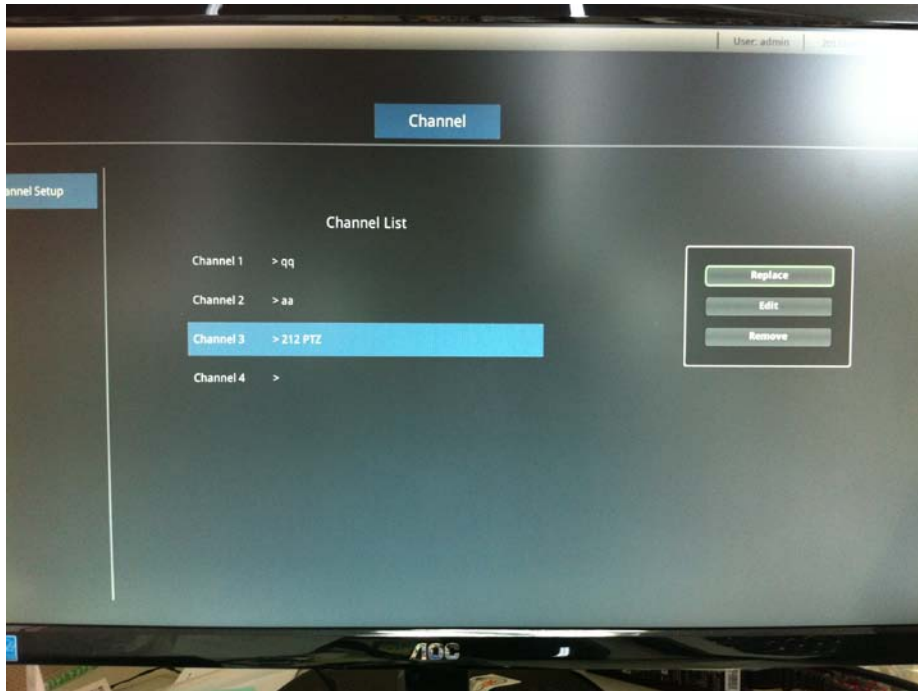
## Advance Config



You will be able to change video settings such as video format, resolution, frame rate and video quality if you chose "Advance config".

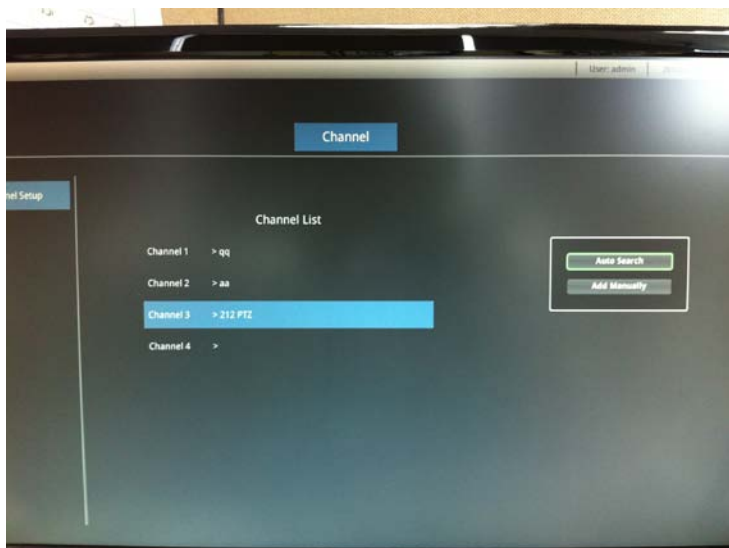


Choose "Record config" before applying the setting allows you to enable continuous recording and its recording quality as soon as the camera is added. Press the "OK" key on the Apply button to finish.

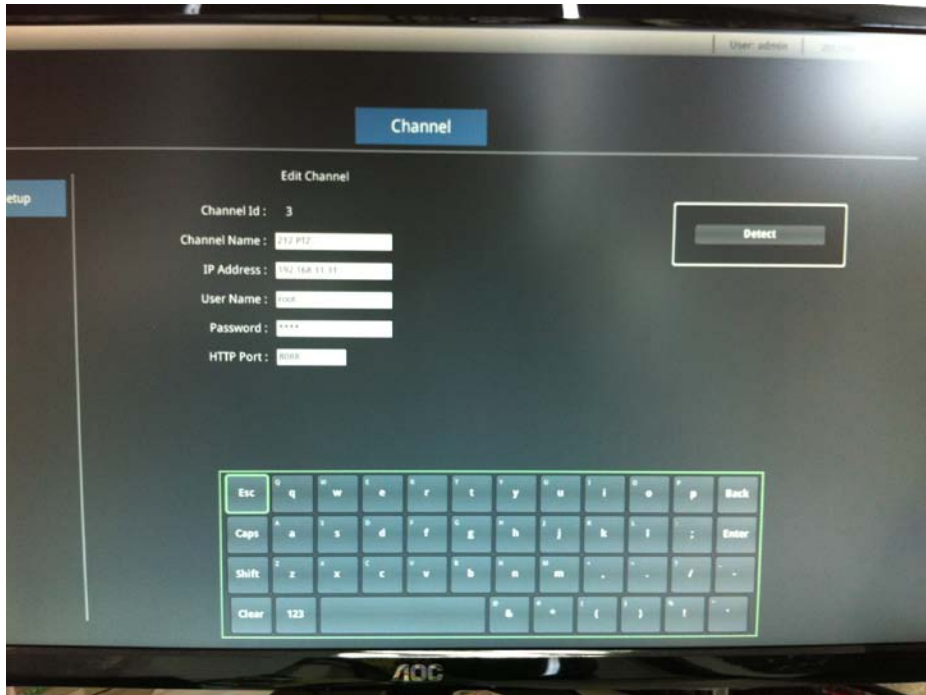


You will be taken back to the Channel List after successfully adding a camera.

Press the "OK" key on a channel with a camera already added will give you the option to replace camera on this channel, edit the settings of this channel, or remove the camera.

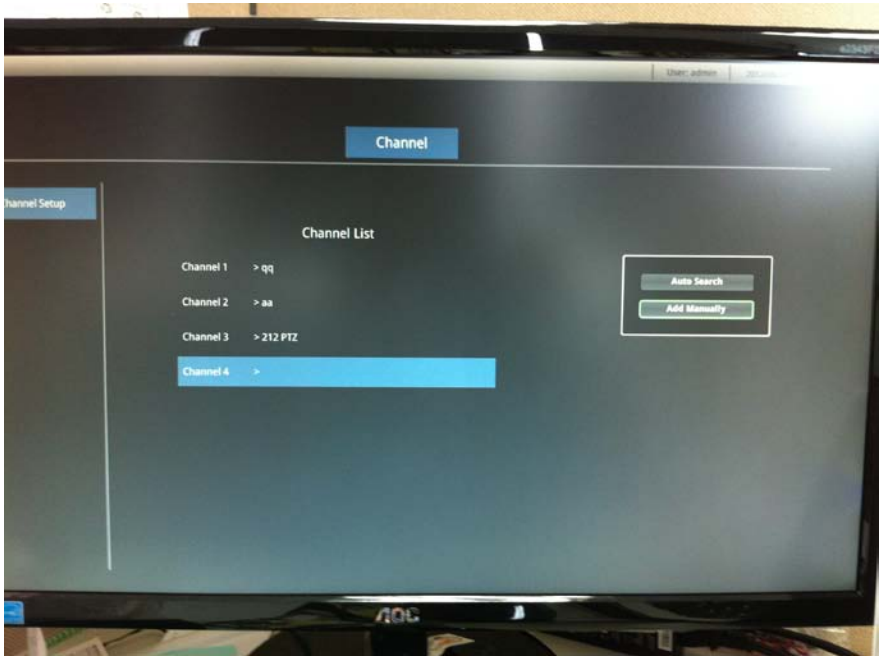


Choose "Replace" will allow you to add a new camera to this channel manually or with Auto Search.

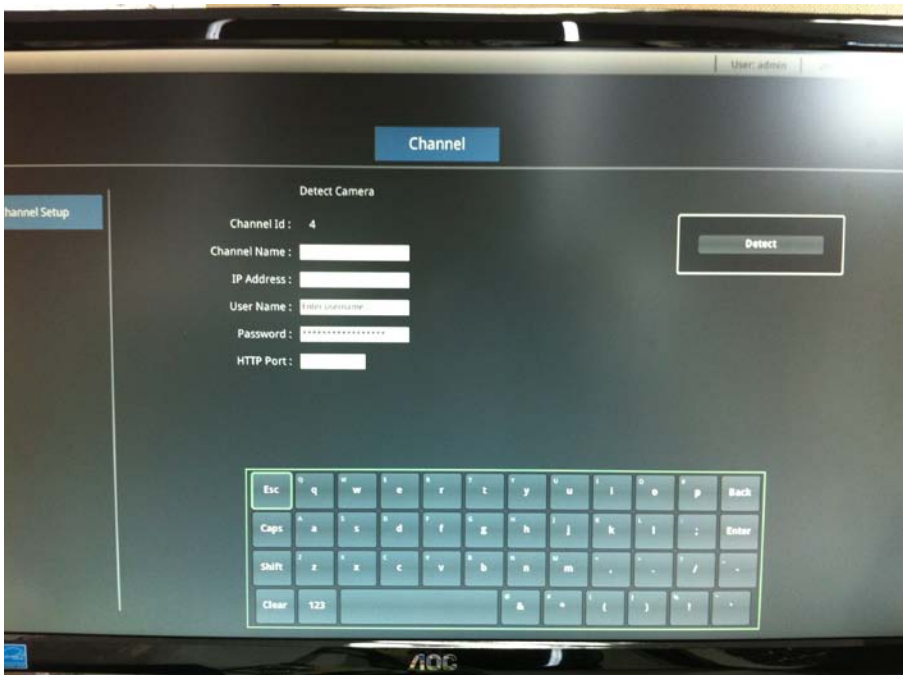


Choose "Edit" will take you back to the beginning of the channel configuration page to start over settings again.

### Add camera manually



To add a camera manually, select an empty channel from the list and press the "O" key on the remote control. Press the "OK" key again on the "Add manually" option.



Enter camera's IP address, username and password as well as its HTTP port with the virtual keyboard to finish the process.

## Specifications

<b>Hardware</b>	
CPU & Memory	Media processor / 512MB DDR2 RAM
Ethernet	10BaseT/100BaseTX/1000Base-T and half duplex/full duplex auto-negotiation
Built-in HDD	SATA : (ESV4-1T) 1TB HDD *1 Max. Capacity : 3TB
Internal HDD port (HDD is NOT supplied.)	SATA HDD *1 Max. Capacity: 3TB
LED indicator	Power/HDD/Channel
Switches	Reset/Power
Connectors	USB*2, Audio and Video (NTSC composit video, line-out), HDMI,
Power	NVR : (INPUT) DC 12V 4A AC adapter : (INPUT)AC 100-240V , (OUTPUT) DC 12V 4A
Dimensions	213 x 80 x 150mm (8.4 x 3.1 x 5.9 inch)
Weight	1.3 kg (2.8 lb)
Operating temperature and Humidity	41 to 104 deg K (5 to 40 deg C) 10% to 80% , non-condensing
Storage temperature and Humidity	14 to 158 deg K ( -10 to 70 deg C) 5% to 90% , non-condensing
Radio Standard	(Radio) FCC Class A
<b>Software</b>	
Camera search	Manual/AUTO (Smart Camera Search supports measure camera brands.)
Camera setup items	Name, IP address (Build in DHCP server to assign IP address to cameras automatically), video format, resolution, fps
Max. Camera number	4CH
Camera status display	fps, resolution, bandwidth, IP address
<b>Video</b>	
Compliant codec system	MJPEG/MPEG-4/H.264
Max. Resolution	2 MP (Full HD)
Max. Recording Frame Rate	120 FPS ( Full-HD, H.264)
Max. Bitrate	Max. 40Mbps
<b>Audio</b>	
Direction	(web)Two-way , (local) One-way
<b>Live View</b>	
Display Mode	Live View/Full Screen/Playback
Split Screen	(web) 1 and 4, (local) 1
PTZ Camera Support	Virtual PTZ Panel/Auto Pan/Preset Sequence/Digital PTZ
Video Snapshot	JPEG format
Camera status display	Connection / Recording / Event
Map function	Local-Map / Google Map
Mobile Device support	Built-in browser ,or App for iPhone and Android



<b>Playback</b>	
Split Screen	(web) 1 and 4, (local) 1
Search Method	Time/Date, Event
Playback Controls	Play/Pause/Stop/Forward/Reverse/Frame by Frame
Export video format	AVI
Video Snapshot	JPEG format
<b>Recording</b>	
Recording Mode	Manual / Continuous / Scheduling / Event
Type of Scheduling	Manual Select / Profile-based / Weekly Mode
Recording fps	H.264 & MPEG4: I frame / FULL frame MJPEG: 1/5/10/15/20/FULL frames
Storage period	1~365 days
<b>Network</b>	
Protocols	HTTP/SMTP/DHCP/ARP/NTP/DNS/UPnP/FTP
DDNS	DynDNS
<b>User Management</b>	
Management	User / Group
Number of Groups	7 (Administrator/Guest/User Define*5)
Privileges	Live View/Playback/System Configurations/Camera Configurations/Recording Configuration/Event Configuration/System Maintenance
<b>Trigger &amp; Events</b>	
Events	System Events -- System Start, System Settings modified, Camera Settings Modified, Start Recycle, Disk Fail, camera status, HDD remaining space Camera Events -- Motion/Sensor Detection
Event Actions	Mail / FTP / Recording
Event Recording	Pre / Post Event Settings
<b>Bundle software</b>	
Central Management SW	Free bundled (256CH "CMS Basic")
NVR search SW	Free bundled (NVR search)
<b>Log</b>	
Log Types	Alert / Event / User Access
<b>Systems</b>	
Minimum Requirements	CPU: Intel® Core™ 2 Duo: 2.4GHz or higher RAM: 2GB Network: 100 Megabit Network Interface or above Microsoft® Internet Explorer® version 8 or above
<b>General</b>	
Language	(web) English / Trad. Chinese / Simp. Chinese / Japanese / Italian / Spanish / Portuguese / German / Danish / Czech / Polish / French / Russian / Slovene /Hungarian (local) English
Package contents	NVR (with HDD), CD-ROM, QIG, Warranty Card, Power code, LAN cable AC adapter, Screws (pan head x8)

- Designs and specifications may change without prior notice for better improvement.
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