



Network Video Recorder User Manual

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Chapter 1. Introduction

Before You Use This Product

When you first open the product's package, verify that all the accessories listed on the "Package Contents" of "Quick Installation Guide" are included. Before installing the NVR, please read the instructions in the "Quick Installation Guide" to avoid misuse and then follow the instructions in the "Hard Disk Installation" section to avoid damages due to faulty assembly or installation.



Hardware Description

NR-1104

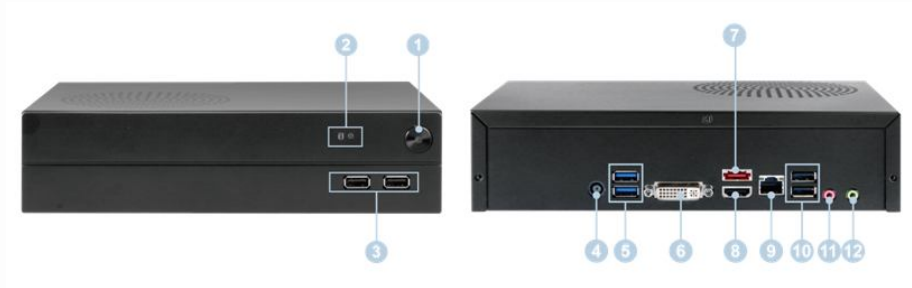


Figure 1-1. Front & Rear View of NR1104

1. Power button
2. LED indicator: HDD
3. USB 2.0 x2
4. Power connector
5. USB 3.0 x 2
6. DVI-I
7. eSATA x 1
8. HDMI x 1
9. Gigabit LAN
10. USB 2.0 x 2
11. Audio mic input(Reserved)
12. Audio output

NR-2104 / NR-2108 / NR-2116

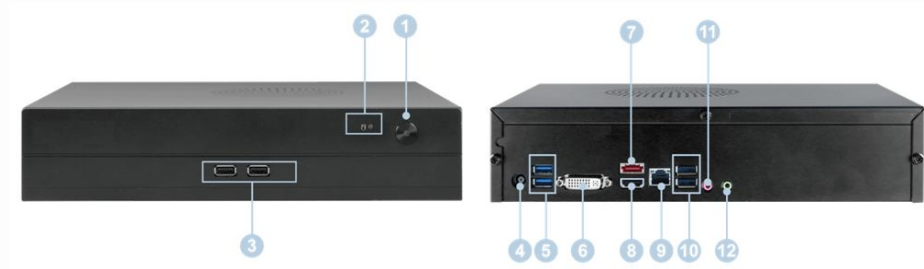


Figure 1-4. Front & Rear View of NR-2104 / NR-2108 / NR-2116

1. Power button
2. LED indicator: HDD
3. USB 2.0 x2
4. Power connector
5. USB 3.0 x 2
6. DVI-I
7. eSATA x 1
8. HDMI x 1
9. Gigabit LAN
10. USB 2.0 x 2
11. Audio mic input(Reserved)
12. Audio output

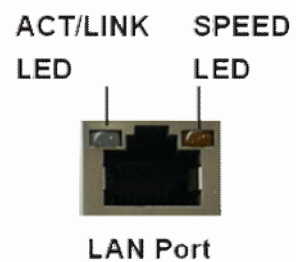
LED Indicators Status

NR-1104



Figure 2-3. NR-1104 Front Panel

LAN Port LED Indications			
Activity/Link LED		SPEED LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Off	100Mbps connection
On	100Mbps connection	Yellow	1Gbps connection



Note:

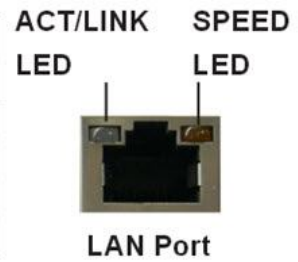
- **To turn off your NVR, long pressing power button at least 2 seconds.
- **To turn on your NVR, long pressing power button at least 3 seconds.

NR-2104 / NR-2108 / NR-2116



Figure 2-4. NR-2104 / NR-2108 / NR-2116 Front Panel

LAN Port LED Indications			
Activity/Link LED		SPEED LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Off	100Mbps connection
On	100Mbps connection	Yellow	1Gbps connection



⚠️ Note:

- **To turn off your NVR, long pressing power button at least 2 seconds.
- **To turn on your NVR, long pressing power button at least 3 seconds.



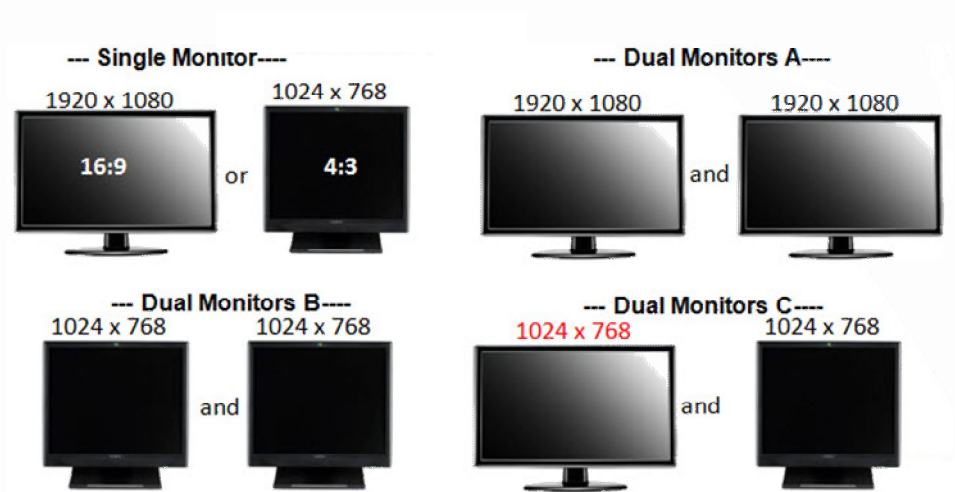
Dual-Monitor Solution: HDMI/VGA/DVI-I Connection

NR-1104/NR-2104/NR-2108/NR-2116 provide HDMI and DVI-I port for local display. Users can connect both of HDMI and DVI-I at the same time for video output.

Scenario A: If both monitors are Full HD(1920x1080), those will be shown as Full HD.

Scenario B: If both monitors are VGA (1024x768), those will be shown all as VGA.

Scenario C: If one of monitors is 1920x1080 and another is 1024x768, both monitors are set as 1024x768



Chapter 2. NVR Installation

System Requirements

The following information is the minimum level of system requirements for a personal computer to operate NVR in better performance:

- **Operating System**

Microsoft® Windows® Vista /7 / 8 (32-bit and 64-bit)

- **Browser**

Microsoft® Internet Explorer 8.0 or above (32-bit)


- **CPU**

For channels under 16 : Intel® Dual core CPU 3.0 GHz or above.

For channels over 16 : Intel® i5/i7 CPU 3.3 GHz or above.

- **Network**

Minimum 10/100 Ethernet (Gigabit Ethernet is recommended)

 **Note:** * User is suggested to connect cameras and NVR with Gigabit switch.


- **Memory**

For channels under 16: DDR3 4G or above.

For channels over 16: DDR3 8G or above

- **Graphics Adapter**

AGP or PCI-Express, minimum 1024×768, 16 bit colors, 1G memory or above

 **Note:** It is highly recommended to use a graphics adaptor which provides higher than resolutions 1024 x 768 in order to experience the full benefits of the software.

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

- **CD-ROM Drive**

It is necessary to read the operating instructions in the provided CD-ROM.

- **Adobe Reader**

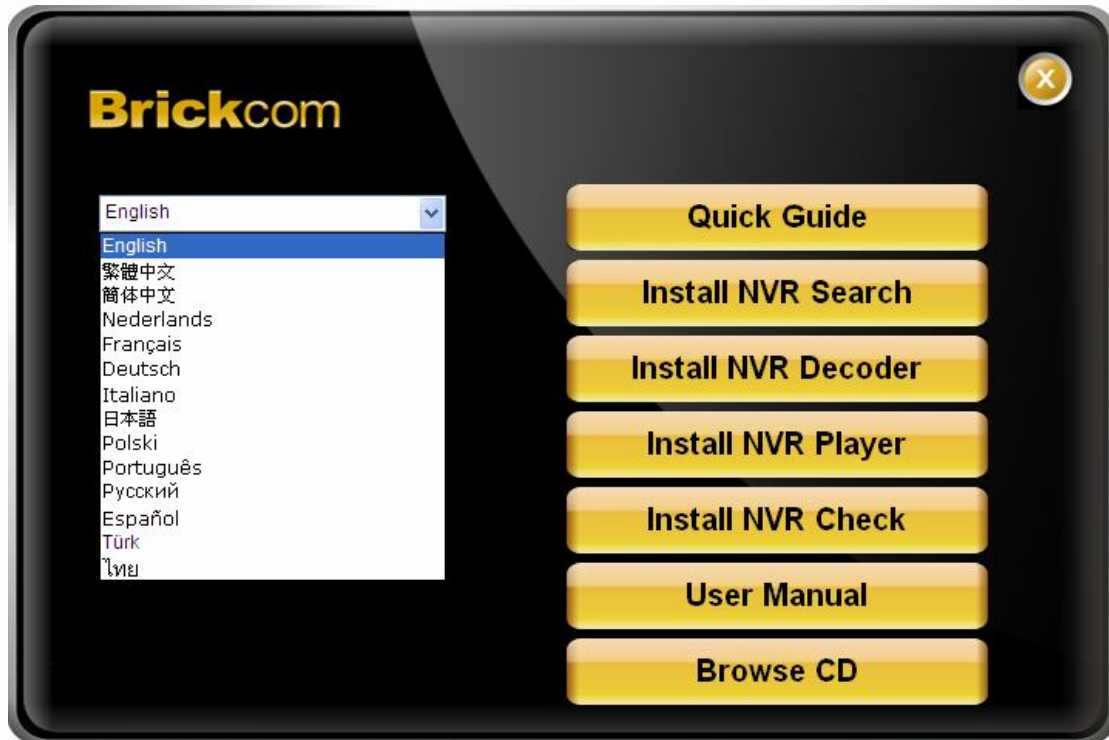
It is necessary to read the operating instructions in the provided CD-ROM.

The audio function will not work if a sound card is not installed in the PC.


Audio may be interrupted depending on network traffic.

Connect to NVR


To begin, please insert the product CD-ROM in a PC to access the Quick Guide, User Manual and install the utilities. As user runs the product CD, the following menu is displayed.

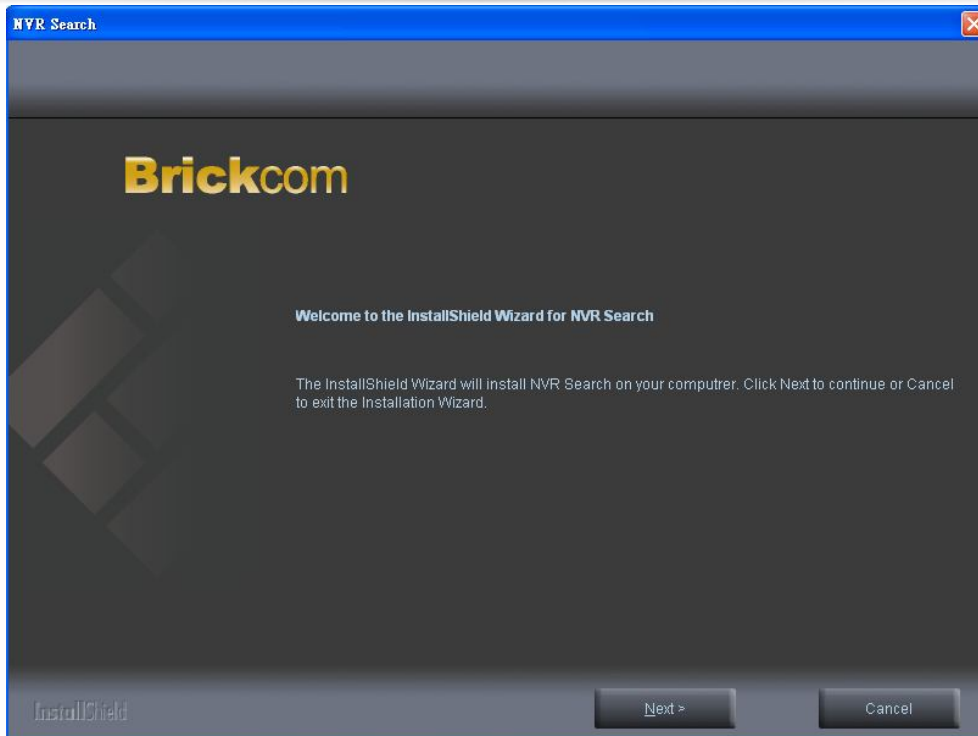


Quick Guide

Click "**Quick Guide**"  to enter the folder and double click the file to open. Please read Quick Guide to quickly understand the process of NVR installation.

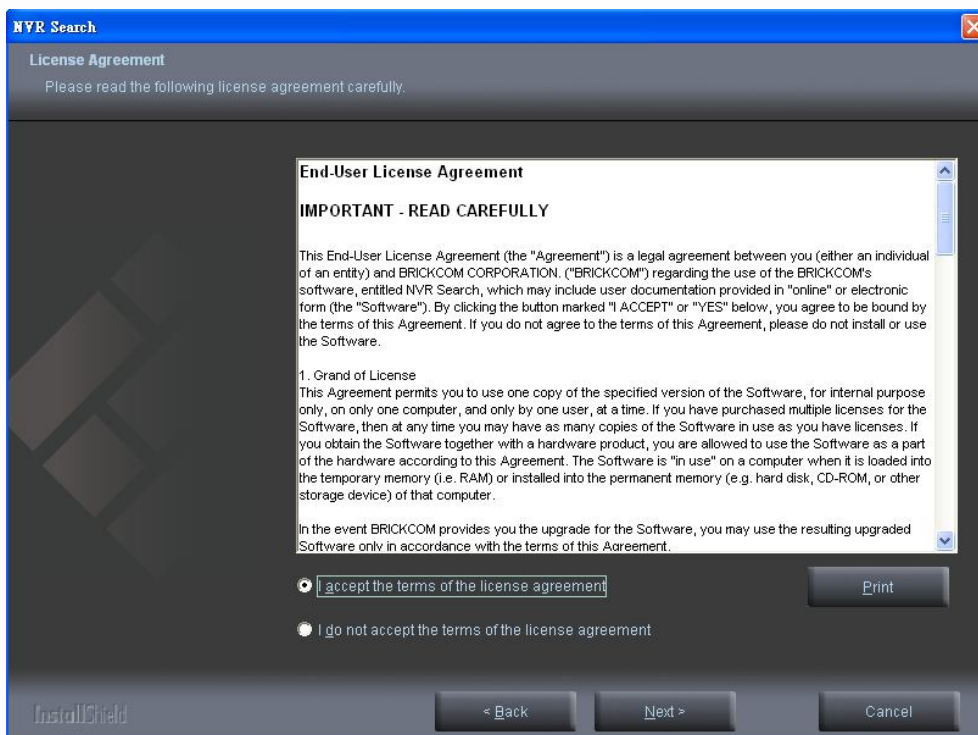
Install EZ Search

Click "**Install NVR Search**"  to find NVR in the network. Please follow the instructions to install and NVR Search will run automatically.

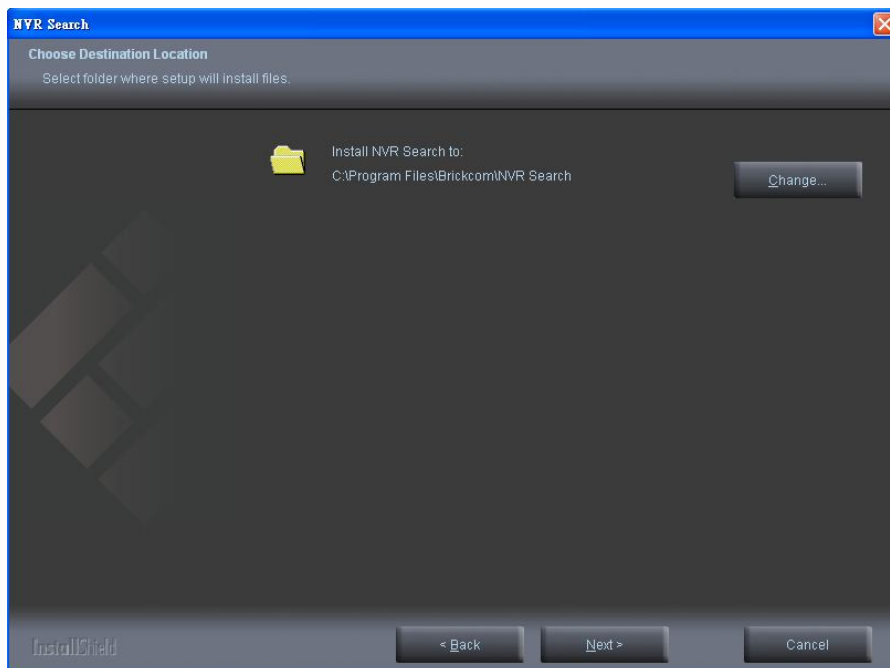


When installing NVR Search, **Shield Wizard window for NVR Search** will pop up.

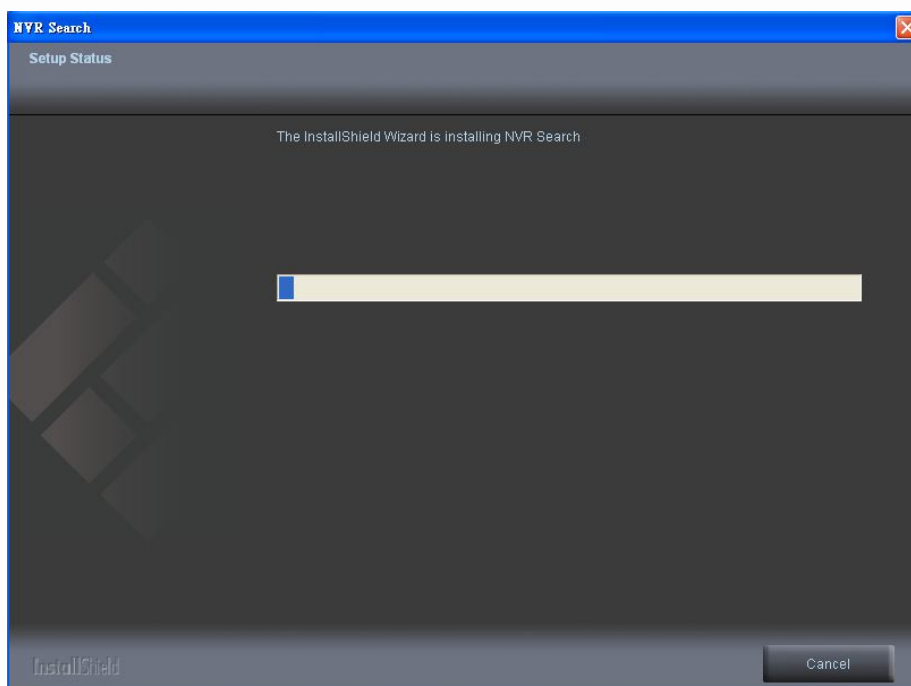
Click **"Next"** to continue installation.



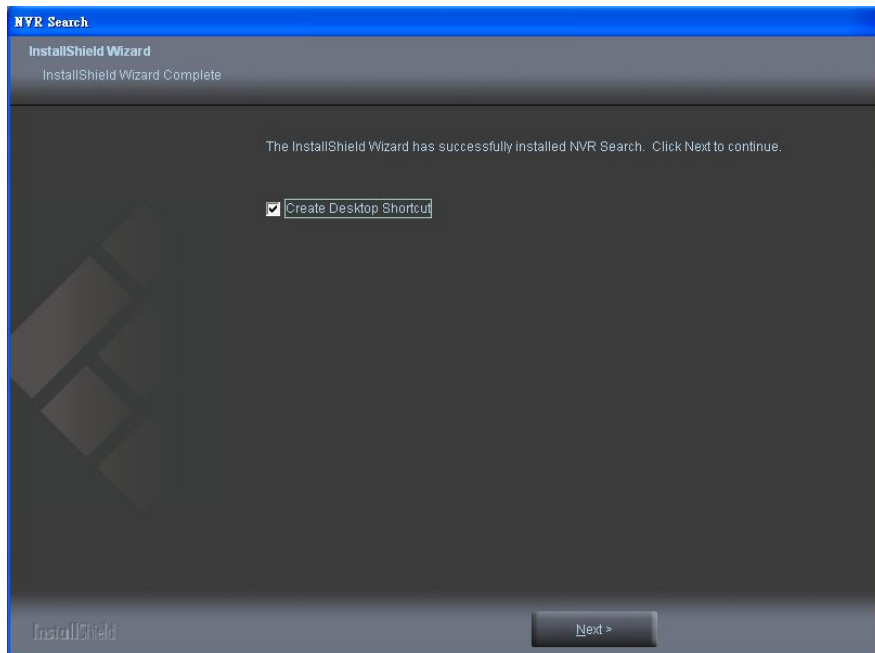
Read the license agreement and click "**I accept the terms of the license agreement**". Click "**Next**" to continue installation.



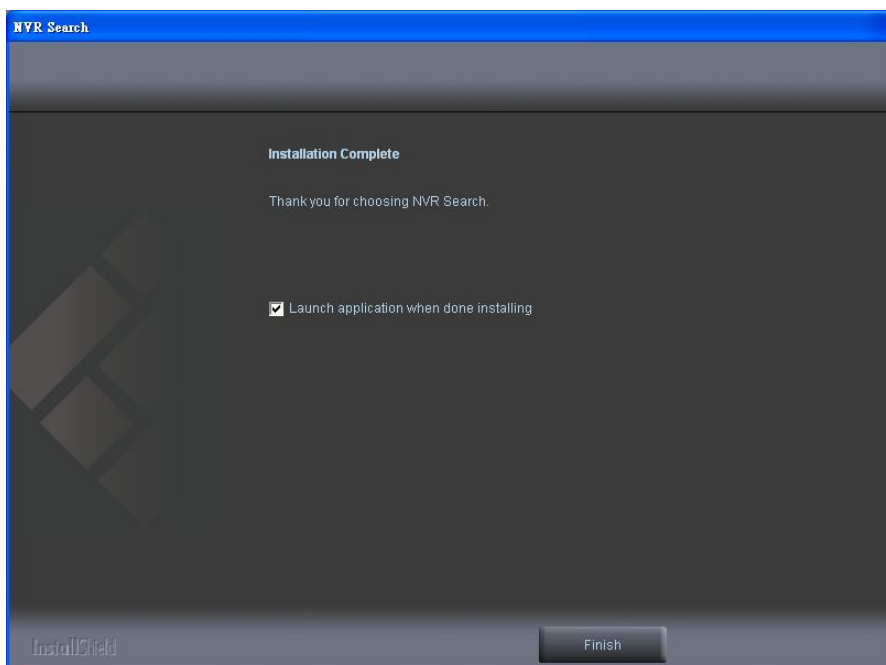
Select a location of destination and select a folder where the setup can install files. The default location is: **C:\Program Files\Brickcom\NVR Search**. Users can also install NVR Search in other folder by clicking "**Change**" and select a location as below. Click "**OK**" to save the setting.



The window shows that the Install Shield Wizard is installing NVR Search. Please wait until the Wizard completes the installation.

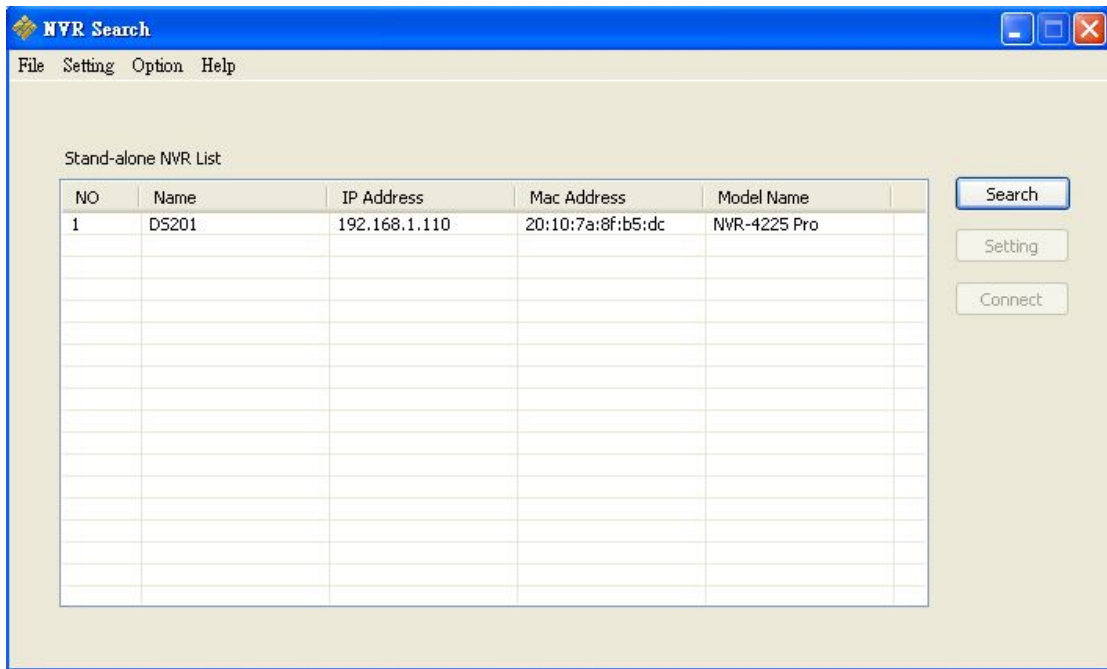


The Install Shield has successfully installed NVR Search. Select "**Create Desktop Shortcut**" and please click "**Next**" to continue.



The installation is complete. Please click "**Launch application when done installing**" to execute NVR Search.

After finishing the setup, the window of NVR Search will pop up.
NVR Search will execute automatically and show **NO., Name, IP Address, Mac Address and Model name** of connected Brickcom.

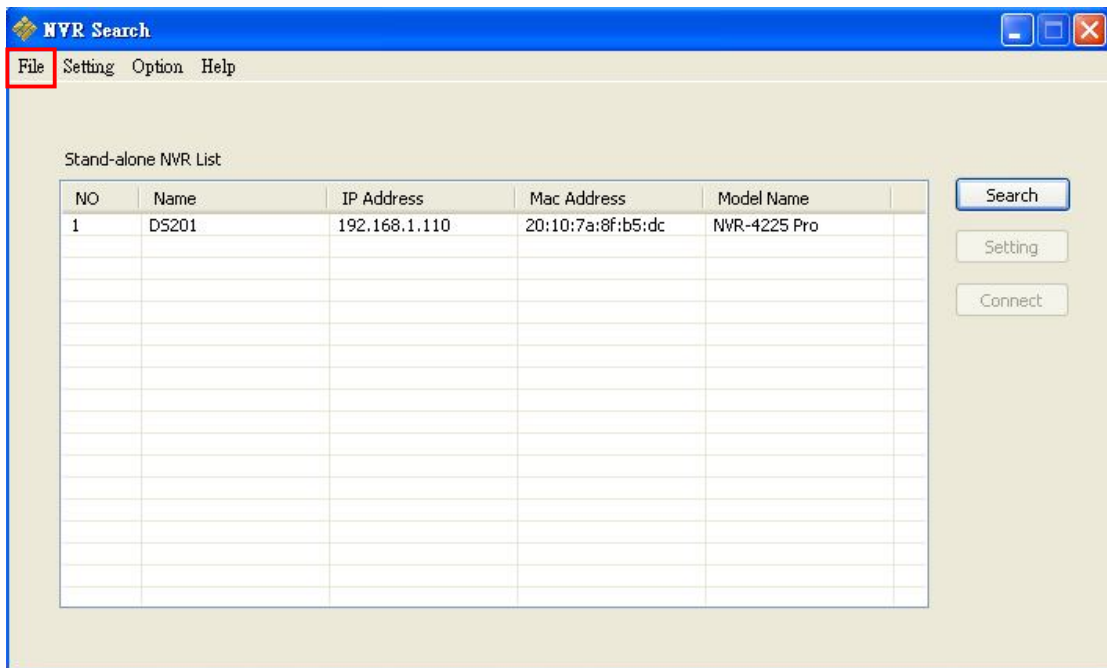


Users can click “**Search**” to search NVR.

Introduction of NVR Search

NVR Search provides three kinds of toolbars for users:

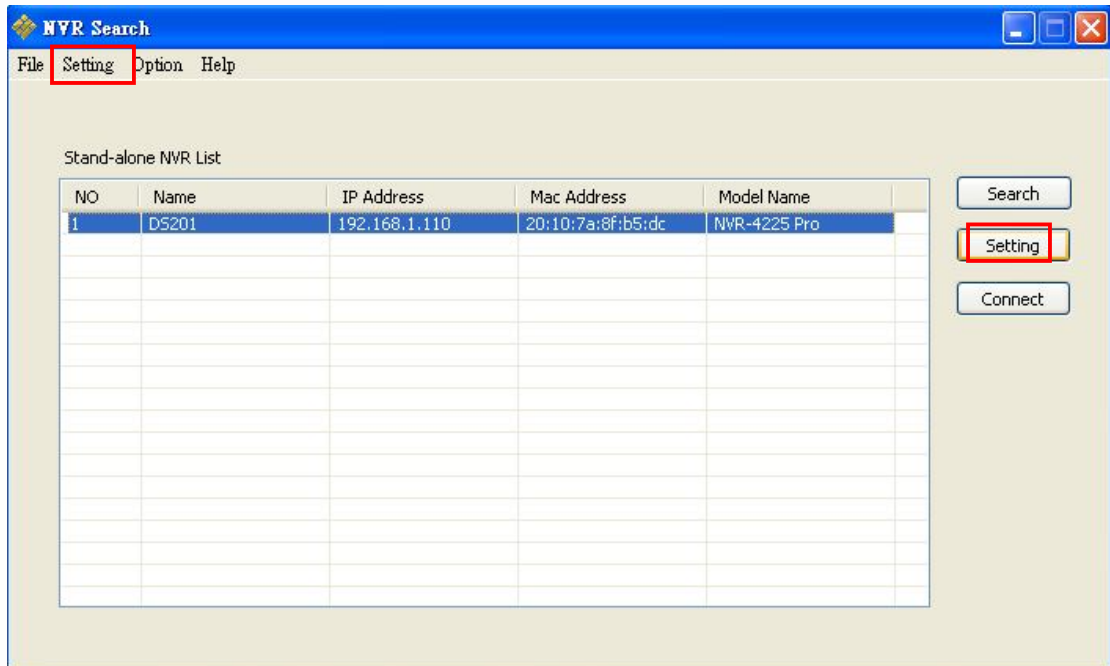
1. File



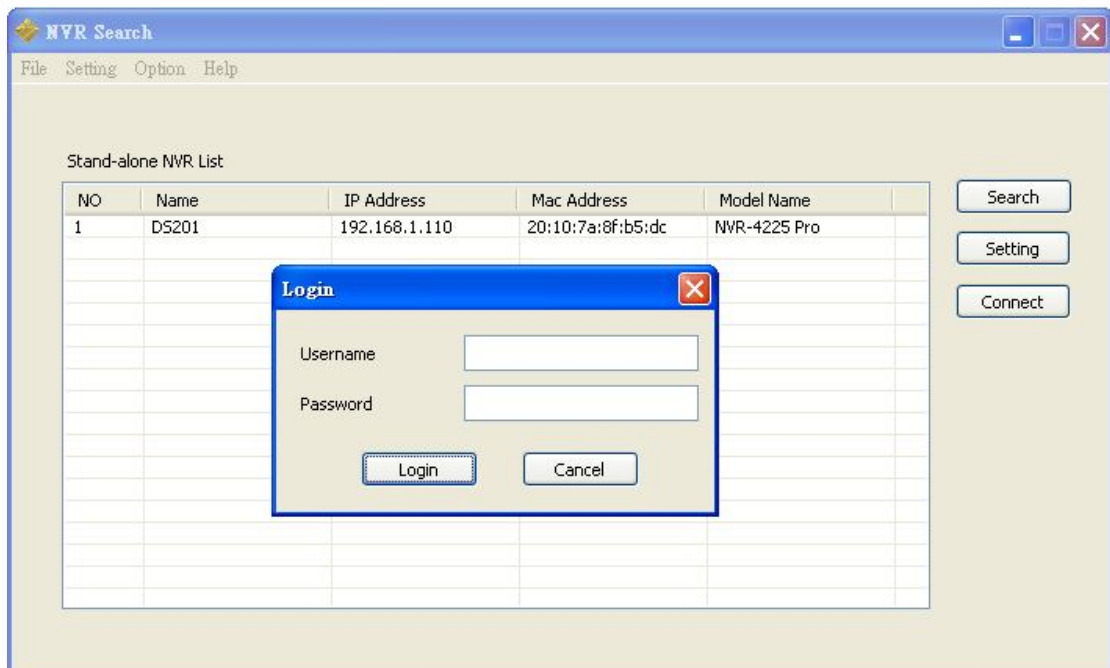
You can click “**Exit**” to leave NVR Search and close the window.

2. Setting

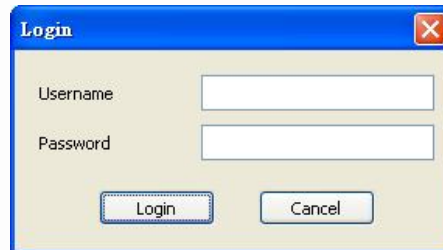
Configure UPnP and Network by clicking “**Setting**” in the top left or in the middle right.



Note: Users will be prompted to enter the login information of NVR before being allowed to change the setting.

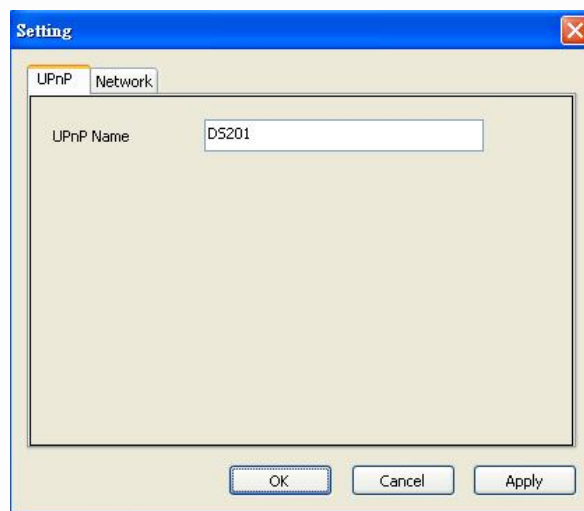


When accessing the NVR setting, users will be prompted to enter username and password. For the first-time use, the default username and password are **admin/admin**. When the correct username and password have been entered, click “**Login**” to continue.



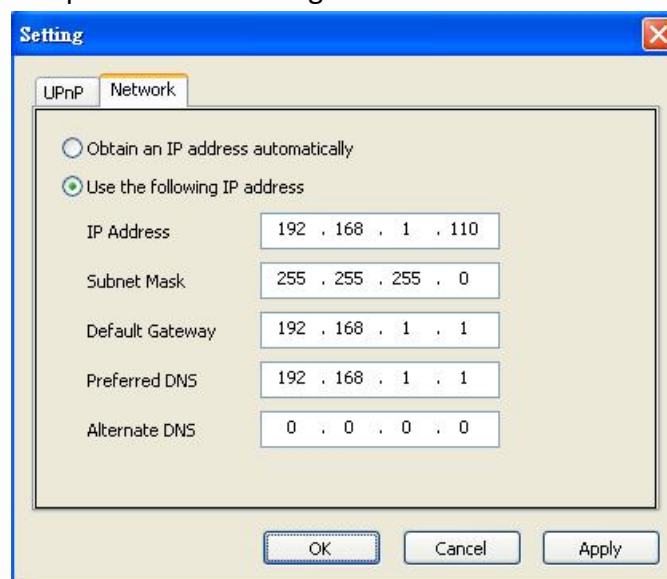
1) UPnP

Universal Plug and Play (UPnP) simplifies the process of adding a NVR to a local area network. Once connected to a LAN, NVR will automatically appear on the internet. You can rename UPnP Name on the NVR. Click **OK** to finish the setting.



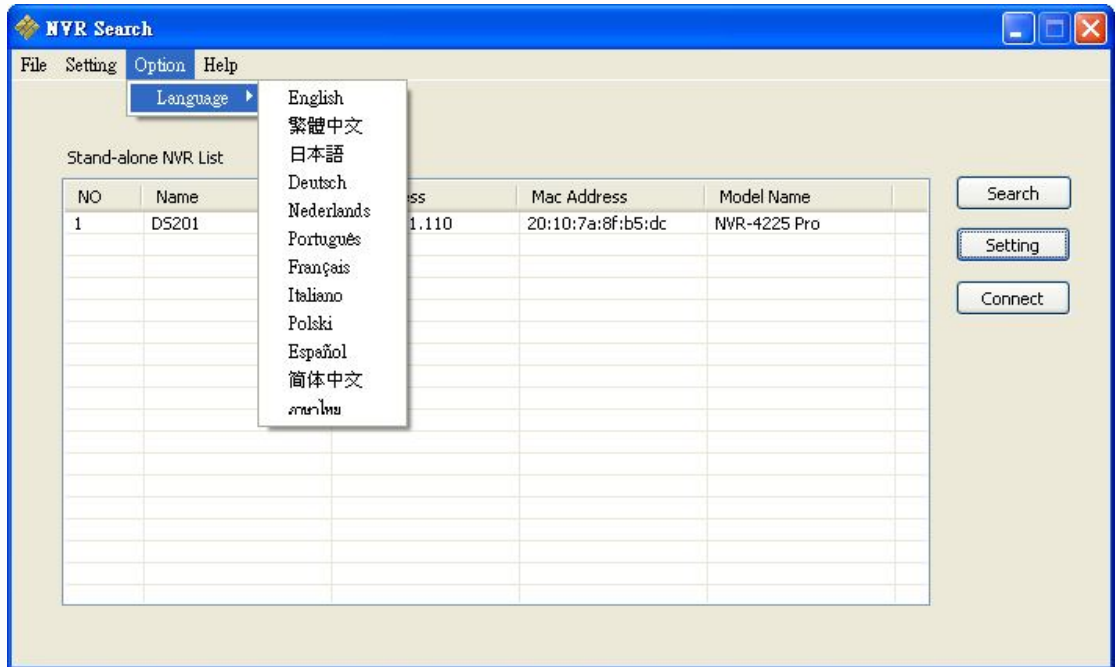
2) Network

Two models are provided for setting the network: **DHCP** and **Static IP**.



3. Option

Option provides several languages

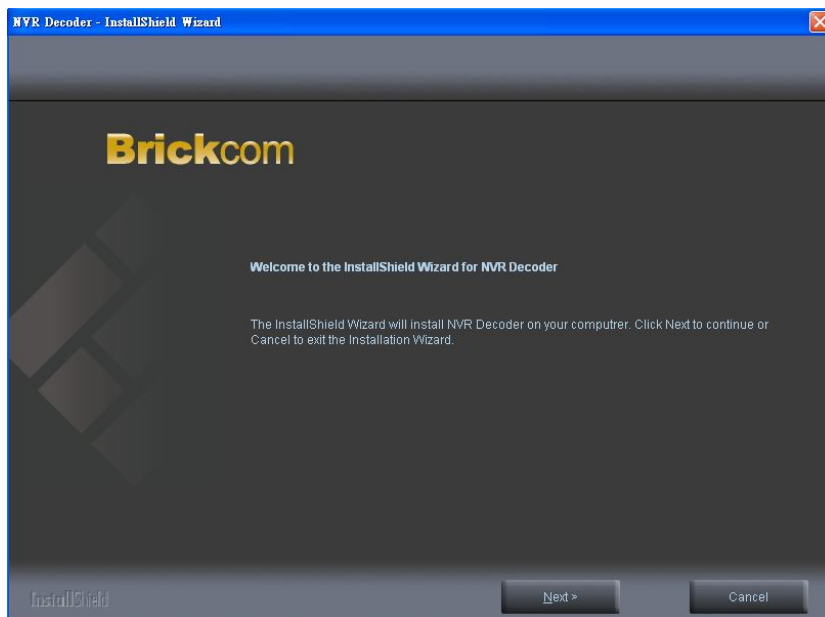
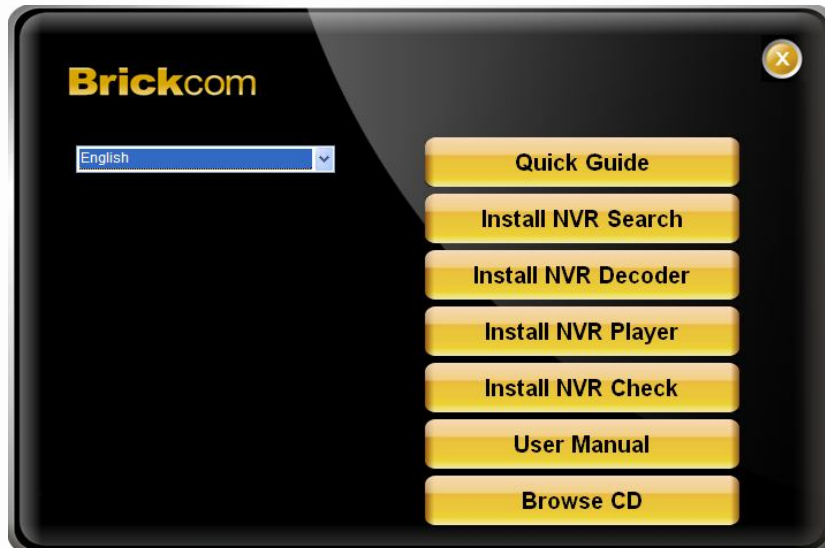


Once you click "**Connect**" or **double click** the selected NVR list, IE browser will pop up automatically for the web-based interface.

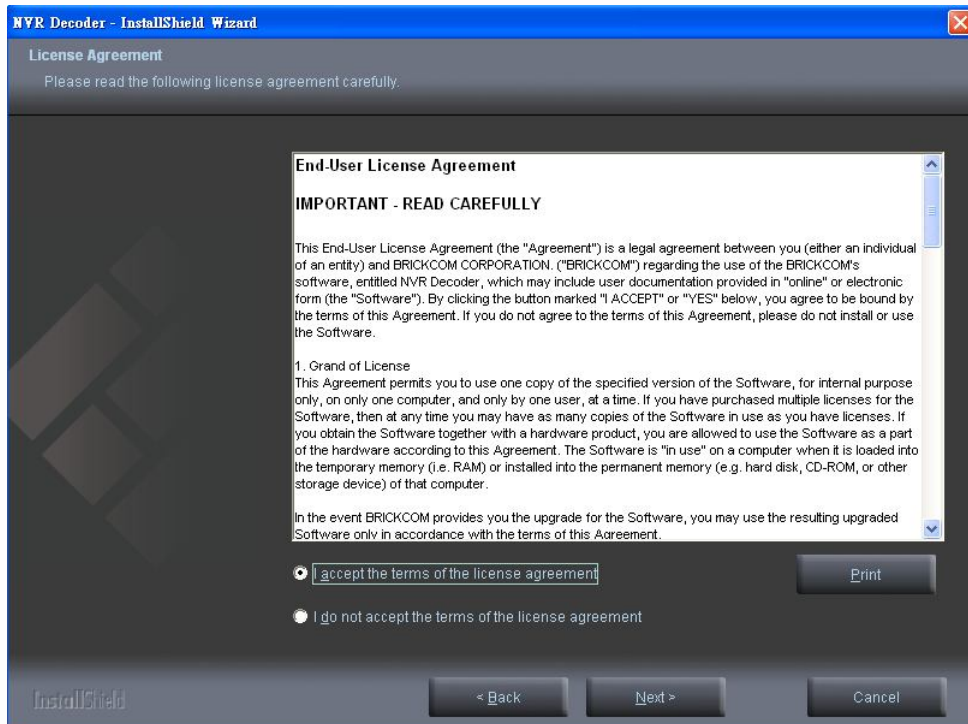


Install NVR Decoder

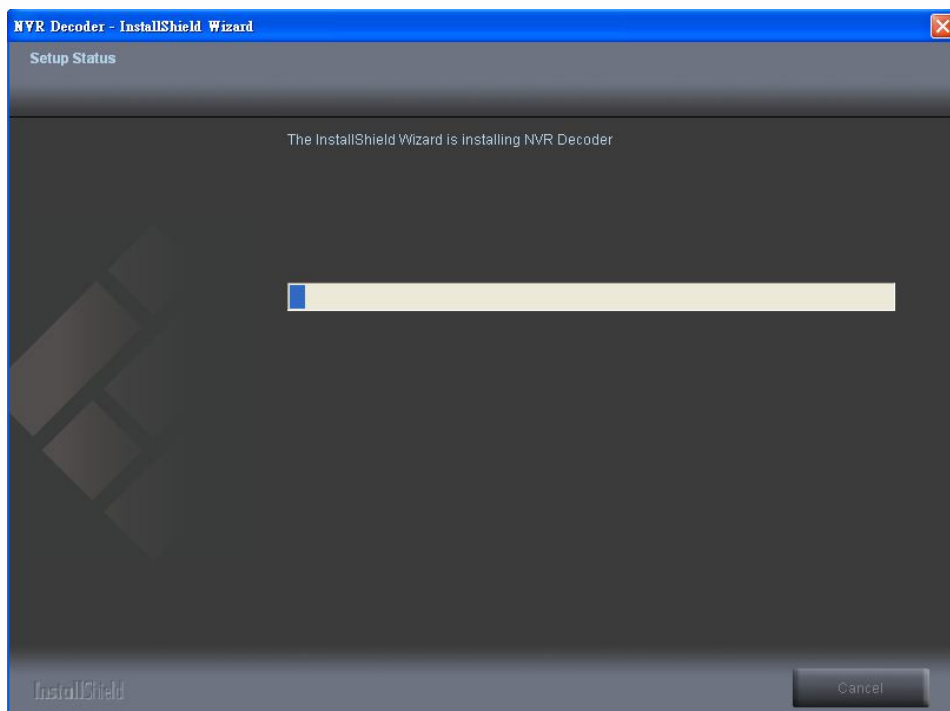
Click “**Install NVR Decoder**”  to install decoder and follow the instructions to setup.



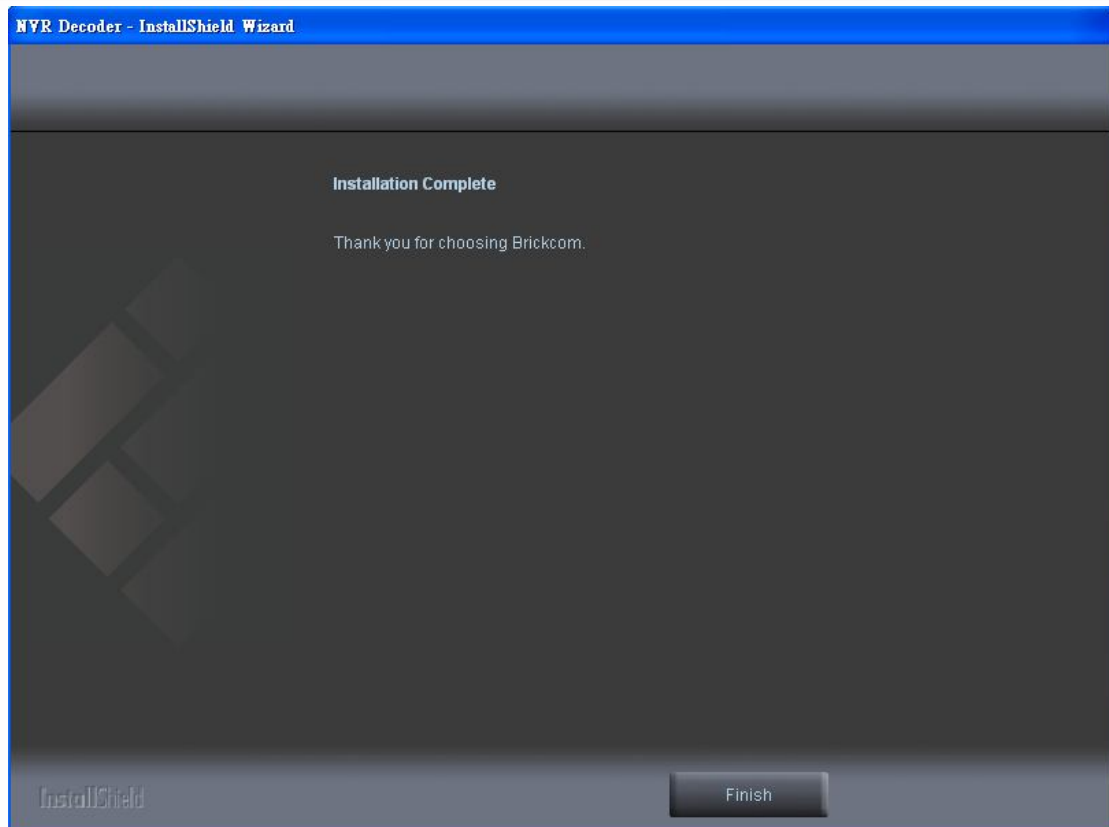
Install Shield Wizard window will pop up and please click “**Next**” to continue installation.



Read license agreement and click **"I accept the terms of the license agreement."** Click **"Next"** to continue installation.



The installation Wizard is installing NVR Decoder.



The installation is complete. Please click "**Finish**" to close the window.

User Manual

Click "**User Manual**"  to open the folder and double-click on user manual file to read.

Browse CD

Click "**Browse CD**"  to open the folder of current Autorun.exe file.

Activate Live View

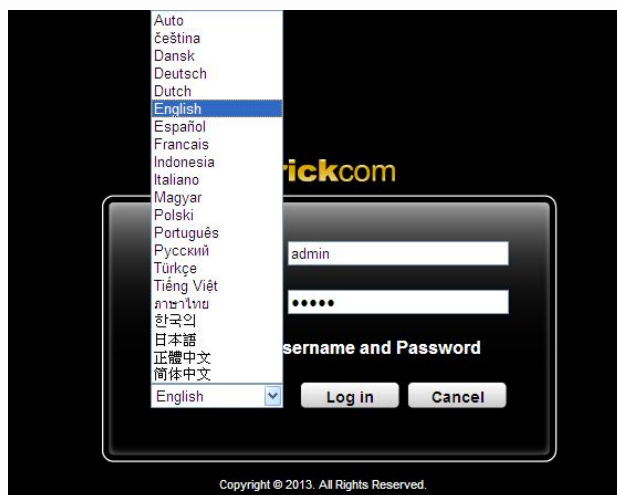
Connect to NVR

Log in to the system by entering its IP address [192.168.1.245](#) in IE browser.

Enter username and password:

For first-time use, the default username and password are "admin/admin."

Select the languages for the UI.



Allow ActiveX Control

After logging in the NVR, users are recommended to install **ActiveX control** for the first-time installation.

Left-click on the description "This website wants to run the following add-on:

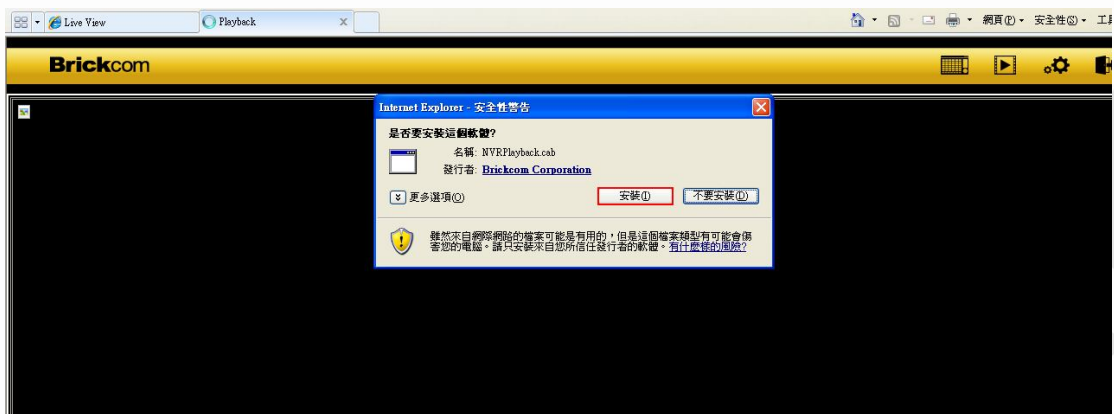
'NVR ActiveX' from....."



Left-click on the description “Run Add on.”



Left-click “Run” to use licensed ActiveX controls.

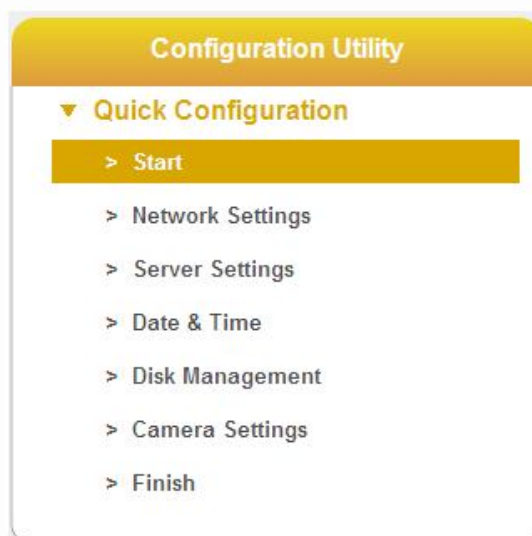


Quick Configuration

After users log in Brickcom and install the ActiveX control, the system will direct you to set Quick Configuration in five main steps. Follow the instructions of the **Overview of wizard** to complete system setup.

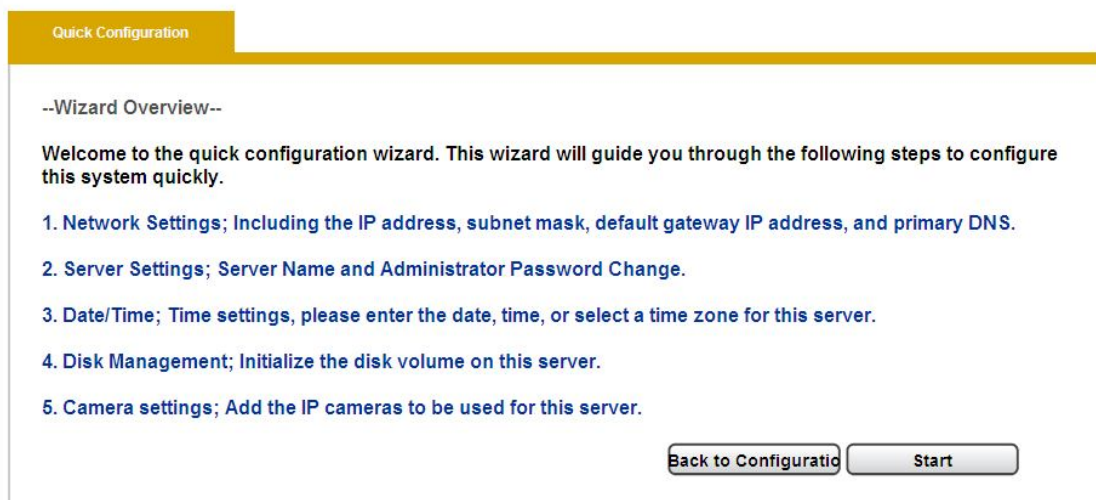
Start

System will lead you to “**Start**” from the drop-down menu of **Configuration Utility** to begin.



To initial the configuration, please study the **Overview of wizard** first. Through five steps, the wizard will guide you to set up the system quickly.

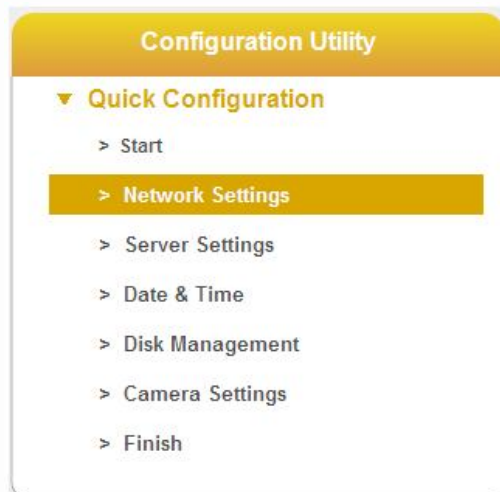
Quick Configuration - Start



Click “**Start**” in Overview of wizard page to begin Quick Configuration.

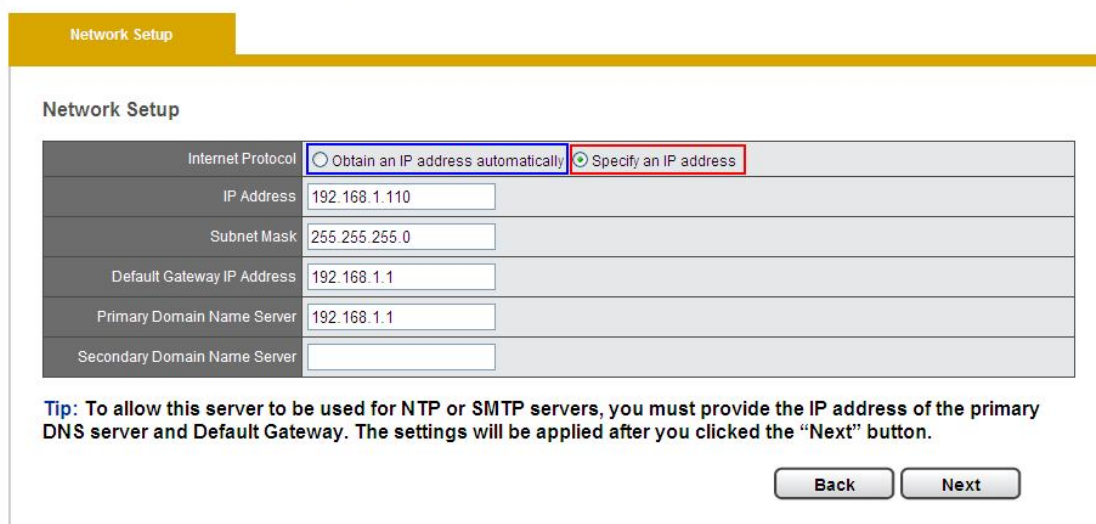
Network Settings

Please select “**Network Settings**” from the drop-down menu of **Configuration Utility** to begin.



Users need to adjust the settings in the Network Setup page in order to let NVR work properly within network.

Quick Configuration - Network Setup



The image shows a screenshot of the 'Network Setup' page. At the top, there is a yellow header with the text 'Network Setup'. Below this, there is a form titled 'Network Setup'. The form has several fields: 'Internet Protocol' with two radio buttons, 'IP Address' with a text input field containing '192.168.1.110', 'Subnet Mask' with a text input field containing '255.255.255.0', 'Default Gateway IP Address' with a text input field containing '192.168.1.1', 'Primary Domain Name Server' with a text input field containing '192.168.1.1', and 'Secondary Domain Name Server' with an empty text input field. The 'Specify an IP address' radio button is selected and highlighted with a red box. Below the form, there is a tip: 'Tip: To allow this server to be used for NTP or SMTP servers, you must provide the IP address of the primary DNS server and Default Gateway. The settings will be applied after you clicked the “Next” button.' At the bottom right, there are two buttons: 'Back' and 'Next'.

There are 2 methods to configure IP address

1. Obtain an IP address automatically (NVR Default)

Obtain an available dynamic IP address assigned by a DHCP server. If this option is selected, NVR will automatically obtain an available dynamic IP address from the DHCP server once it connects to the network.

2. Specify an IP address.

If there is no DHCP server existing in network environments, the static IP address will be given as **192.168.1.245**. It should be adaptable in most

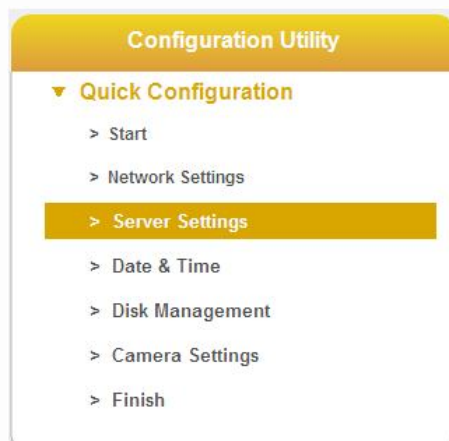
networking environment, and user can choose to maintain the default IP address or change it in this page. However, it's recommended setting different IP address of NVR if there is more than one NVR in the same LAN.

To assign a static IP address to the NVR:

1. Select "Specify an IP address"
2. Enter the IP address, Subnet Mask, Default Gateway IP Address and DNS server address.
3. If IP Address is changed, user needs to log out NVR and login in again. Click "**Next**" to proceed with the configuration.

Server Settings

Please select "**Server Settings**" from the drop-down menu of **Configuration Utility** to begin.



Quick Configuration - Server Settings

Server name

Server name with UPnP

Enabled	<input checked="" type="checkbox"/>
Server Name	<input type="text" value="DS201"/> (Max. size: 32 characters)

Tip: To create a unique name for this server. The settings will be applied after you clicked the "Next" button.

Password Settings

Username	admin	<input type="checkbox"/> Use the original password
New Password	<input type="text"/>	(Max. size: 15 characters)
Retype Password	<input type="text"/>	

Tip: If you select "Use the original password," the administrator password will not be changed. The settings will be applied after you clicked the "Next" button.

- **Server name with UPnP**

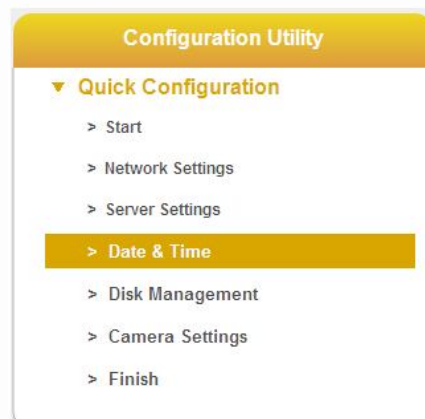
Universal Plug and Play (UPnP) simplifies the process of adding a NVR to a local area network. Once connected to LAN, the NVR will automatically appear on the internet. User can select to enable the function with UPnP and edit a sever name.

- **Password Settings**

Each NVR comes with a built-in **“admin”** account with password **“admin.”** It’s highly recommended to change the password upon the initial login. Enter a new password in the **“New Password”** field and enter it again in **“Retype Password.”** Since you confirm **“Next,”** the administrator password will be changed.

Date & Time

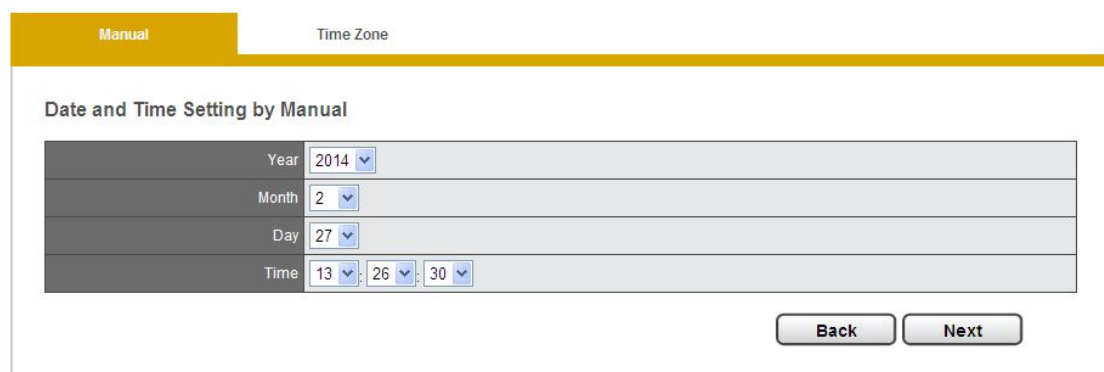
Please select **“Date & Time”** from the drop-down menu of **Configuration Utility** to begin.



1. Manual setting

Use the drop-down list and configure the time manually. Select the **Year, Month, Date and Time**. Time setting will be effective when you click **“Next.”**

Quick Configuration - Date/Time

A screenshot of the 'Date and Time Setting by Manual' form. The form has two tabs: 'Manual' (selected) and 'Time Zone'. The form contains four rows of input fields: 'Year' with a dropdown menu showing '2014', 'Month' with a dropdown menu showing '2', 'Day' with a dropdown menu showing '27', and 'Time' with three dropdown menus showing '13', '26', and '30'. At the bottom right of the form, there are two buttons: 'Back' and 'Next'.

2. Time Zone: Synchronize with an Internet time server automatically.

Select the time zone of your area and update the date and time of the Brickcom automatically with an NTP server. User also has an option to automatically adjust daylight saving time.

Quick Configuration - Date/Time

Manual **Time Zone**

Time Zone

Time Zone	(GMT+08:00)Taiwan
	<input type="checkbox"/> Automatically adjust clock for Daylight Saving Time
NTP Server	time.stdtime.gov.tw <input type="button" value="Network Test"/>

Tip: Please make sure this server is connected to the internet to ensure the date and time are synchronized with the online NTP service. And please go to camera web page to set this NVR server as NTP server, to synchronize the date and time of all cameras.

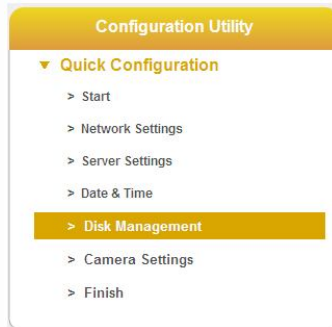
Configure the time and date by verifying and adjusting current local time and daylight saving to avoid the following errors:

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

Please enter the hostname of a valid NTP server to synchronize the server time with an Internet time server. NTP (Network Time Protocol) is a protocol to synchronize the clocks of a computer system.

Disk Management

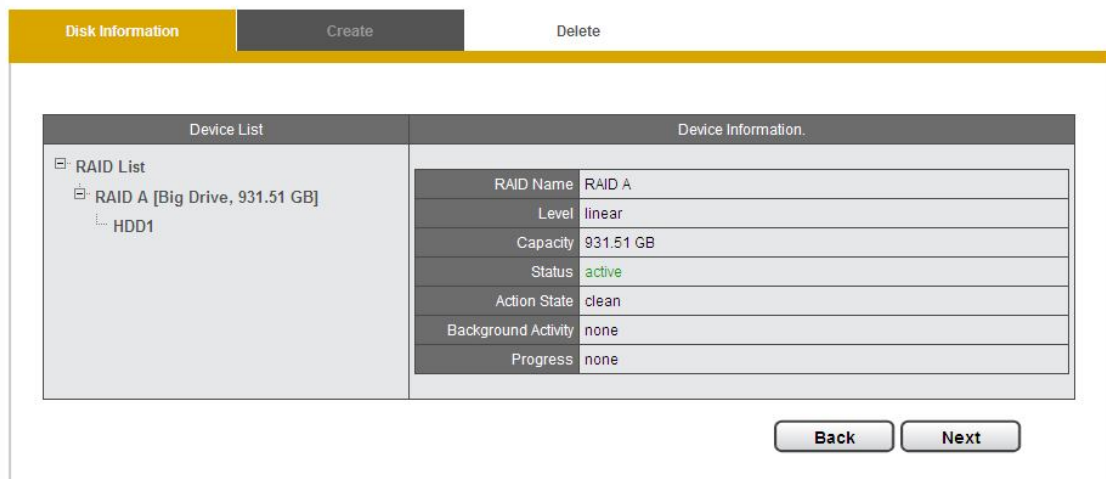
Please select “**Disk Management**” from the drop-down menu of **Configuration Utility** to begin.



If hard disk is not installed in NVR, the page will show “**Disk doesn’t exist.**” Once an available hard disk drive is inserted into the tray, Disk Information will show in **Device Information** and users can start to create new RAID Disk.

1. Disk Information

Quick Configuration - Disk Management



The image shows a screenshot of the 'Disk Information' page. At the top, there is a yellow header with the text 'Disk Information' and two buttons: 'Create' and 'Delete'. Below this, there is a table with two columns: 'Device List' and 'Device Information.'. The 'Device List' column shows a tree view with 'RAID List' expanded, containing 'RAID A [Big Drive, 931.51 GB]' and 'HDD1'. The 'Device Information.' column shows a table with the following data:

Property	Value
RAID Name	RAID A
Level	linear
Capacity	931.51 GB
Status	active
Action State	clean
Background Activity	none
Progress	none

At the bottom right of the page, there are two buttons: 'Back' and 'Next'.

Device Information provides details of the hard disk drive: **HDD Model**, **Serial NO.**, **Capacity** and **Status**.

2. Create

Device List	Device Information.
HDD List 6VV49Y14 [465.76 GB]	HDD Model: ST3500312CS Serial No.: 6VV49Y14 Capacity: 465.76 GB Status: Ready

[Back](#) [Next](#)

As the hard disk drive is available, the status of Device Information shows “**Ready,**” which indicates the hard disk drive is **ready to be created.**

Please click “**Create**” to enter the window for building New RAID Disk and select the hard disk drive in the Free HDDs field.

New RAID Disk

Free HDDs
5VX21DWX [931 GB]

Assigned HDDs

Target RAID Disk

- Big Drive(Linear) [0 GB]
- Fault Tolerant(Raid1) [0 GB]
- Fault Tolerant(Raid10) [0 GB]
- Performance(Raid0) [0 GB]
- Fault Tolerant(Raid5) [0 GB]

RAID Modes

RAID-Linear
DATA → [Disk] + [Disk] + ...
Big Drive(Linear)
Connect all drives to form a big disk volume

RAID-0
DATA → [Disk] + [Disk] + ...
Performance(Raid0)
Make disk volume with better performance

RAID-1
DATA → [Disk] [Disk] (F)
RAID-5
DATA → [Disk] [Disk] [Disk] [Disk] (F)
RAID-10
DATA → [Disk] (F) [Disk] (F) [Disk] (F) [Disk] (F) + [Disk] (F) + ...
Tolerance(RAID-1/5/10)
Make disk volume with tolerance ability
F.Allow failed HDD(s)

[Apply](#) [Reset](#)

The selected hard disk drive in the Free HDDs field will be marked in blue and please click **>>** to recruit the hard disk drive into Assigned HDDs field.

New RAID Disk

Free HDDs

3VX20DWX [931 GB]

Assigned HDDs

>>
|
<<

Target RAID Disk

Big Drive(Linear) [0 GB]
 Fault Tolerant(Raid1) [0 GB]
 Fault Tolerant(Raid10) [0 GB]

Performance(Raid0) [0 GB]
 Fault Tolerant(Raid5) [0 GB]

RAID Modes

RAID-linear

Big Drive(Linear)
Connect all drives to from a big disk volume

RAID-0

Performance(Raid0)
Make disk volume with better performance

RAID-1

RAID-5

RAID-10

Tolerance(RAID-1/5/10)
Make disk volume with tolerance ability
F.Allow failed HDD(s)

Apply
Reset

The selected hard disk drive in Assigned HDDs field will be marked in blue.

Target RAID Disk

Big Drive(Linear) [0 GB]
 Fault Tolerant(Raid1) [0 GB]
 Fault Tolerant(Raid10) [0 GB]

Performance(Raid0) [0 GB]
 Fault Tolerant(Raid5) [0 GB]

Meanwhile, Target RAID Disk is ready to build RAID disk and it shows five types of disk configuration.

The introduction of disk configuration is in the below table.

Disk Configuration

Big Drive (Linear)	Big Drive is a collection of hard disk drives and does not provide any RAID protection. The data are written to the disks continuously.
Performance (Raid0)	RAID0is one larger volume with 2 or more hard disk drives. The data are written to the hard disk drives without any parity information. The total storage capacity is the sum of all hard disk drives.
Fault Tolerant (Raid1)	2 hard disk drives are required to create a RAID1 array. RAID1 can provide disk mirroring by duplicating the data between two hard disk drives.

<p>Fault Tolerant (Raid5)</p>	<p>A minimum of 3 hard disk drives are required to create RAID5. The data are striped in all hard drives in a RAID5 array and the parity information is stored in each drive. If a hard disk drive fails, the array enters degraded mode. The data can be rebuilt from other member drives after installing a new drive to replace the failed one.</p>
--------------------------------------	--

New RAID Disk

<p>Free HDDs</p> <p>5VX20DWX [931 GB]</p>	<p>Assigned HDDs</p>
---	----------------------

>> <<

Target RAID Disk

<input type="radio"/> Big Drive(Linear) [0 GB]	<input type="radio"/> Performance(Raid0) [0 GB]
<input type="radio"/> Fault Tolerant(Raid1) [0 GB]	<input type="radio"/> Fault Tolerant(Raid5) [0 GB]
<input type="radio"/> Fault Tolerant(Raid10) [0 GB]	

RAID Modes

<p>RAID-Linear</p> <p>Big Drive(Linear) Connect all drives to form a big disk volume</p>	<p>RAID-0</p> <p>Performance(Raid0) Make disk volume with better performance</p>
<p>RAID-1</p> <p>Tolerance(RAID-1/5/10) Make disk volume with tolerance ability F.Allow failed HDD(s)</p>	<p>RAID-5</p>
<p>RAID-10</p>	

Select a type of disk configuration, and please click “**Apply**” to execute building new RAID disk.

Note: Don’t turn off the server or unplug any hard drives when RAID Disk is in building process.

Please wait. The disk configuration is in a process.



Device List	Device Information.														
RAID List <ul style="list-style-type: none">RAID A [Big Drive, 465.75 GB]<ul style="list-style-type: none">HDD1	<table border="1"><tr><td>RAID Name</td><td>RAID A</td></tr><tr><td>Level</td><td>linear</td></tr><tr><td>Capacity</td><td>465.75 GB</td></tr><tr><td>Status</td><td>active</td></tr><tr><td>Action State</td><td>clean</td></tr><tr><td>Background Activity</td><td>none</td></tr><tr><td>Progress</td><td>formatting 20%</td></tr></table>	RAID Name	RAID A	Level	linear	Capacity	465.75 GB	Status	active	Action State	clean	Background Activity	none	Progress	formatting 20%
RAID Name	RAID A														
Level	linear														
Capacity	465.75 GB														
Status	active														
Action State	clean														
Background Activity	none														
Progress	formatting 20%														

[Back](#) [Next](#)

The progress is under “formatting....20%”. Please wait till 100%.

Device List	Device Information.														
RAID List <ul style="list-style-type: none">RAID A [Big Drive, 465.75 GB]<ul style="list-style-type: none">HDD1	<table border="1"><tr><td>RAID Name</td><td>RAID A</td></tr><tr><td>Level</td><td>linear</td></tr><tr><td>Capacity</td><td>465.75 GB</td></tr><tr><td>Status</td><td>active</td></tr><tr><td>Action State</td><td>clean</td></tr><tr><td>Background Activity</td><td>none</td></tr><tr><td>Progress</td><td>create swap</td></tr></table>	RAID Name	RAID A	Level	linear	Capacity	465.75 GB	Status	active	Action State	clean	Background Activity	none	Progress	create swap
RAID Name	RAID A														
Level	linear														
Capacity	465.75 GB														
Status	active														
Action State	clean														
Background Activity	none														
Progress	create swap														

[Back](#) [Next](#)

The progress is in “Create swap” and is going to finish the disk building.

Device List	Device Information.														
RAID List <ul style="list-style-type: none">RAID A [Big Drive, 465.75 GB]<ul style="list-style-type: none">HDD1	<table border="1"><tr><td>RAID Name</td><td>RAID A</td></tr><tr><td>Level</td><td>linear</td></tr><tr><td>Capacity</td><td>465.75 GB</td></tr><tr><td>Status</td><td>active</td></tr><tr><td>Action State</td><td>clean</td></tr><tr><td>Background Activity</td><td>none</td></tr><tr><td>Progress</td><td>none</td></tr></table>	RAID Name	RAID A	Level	linear	Capacity	465.75 GB	Status	active	Action State	clean	Background Activity	none	Progress	none
RAID Name	RAID A														
Level	linear														
Capacity	465.75 GB														
Status	active														
Action State	clean														
Background Activity	none														
Progress	none														

[Back](#) [Next](#)

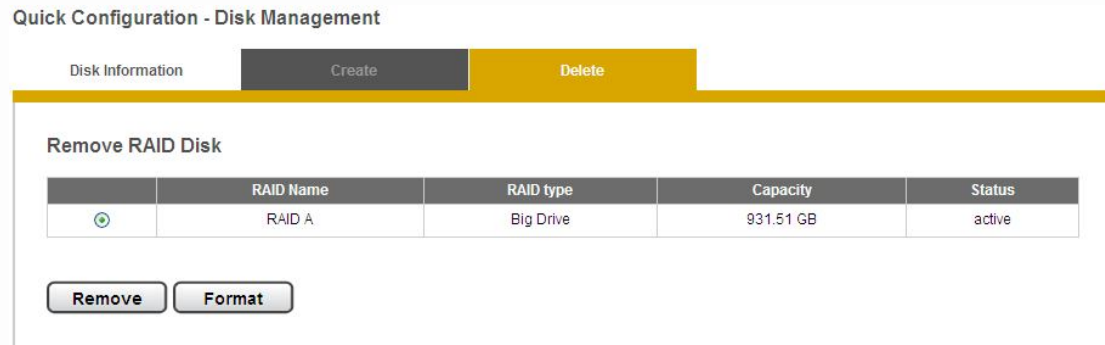
Finally, the RAID disk building is complete.

After the RAID disk is created, RAID List shows RAID Name and available storage devices. Device Information provides status of the hard drive: **RAID Name, Level, Capacity, Status-Active, Action State, Background Activity** and **Progress-none**.

3. Delete

After the RAID Disk is created, “Delete” option is available.

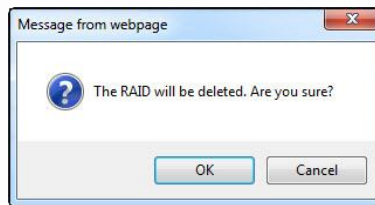
If user is going to delete RAID disk, please refer to following description.



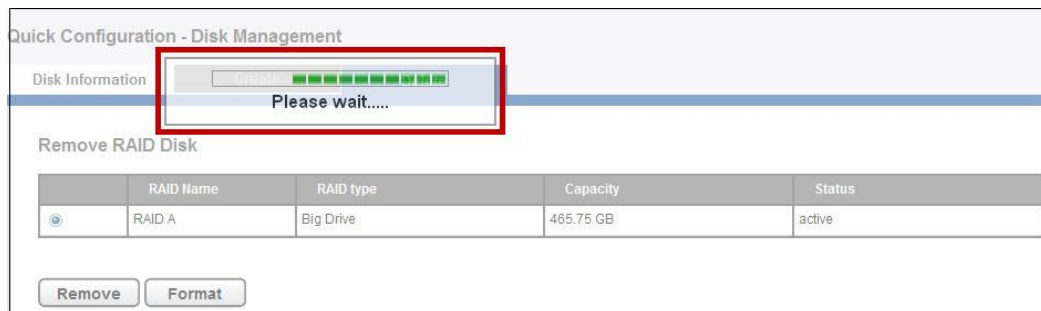
In “Delete” option, user can remove or format RAID disk by selecting the **RAID disk**. In the table, **RAID Name, RAID type, Capacity** and **Status** are shown.

- **Remove**

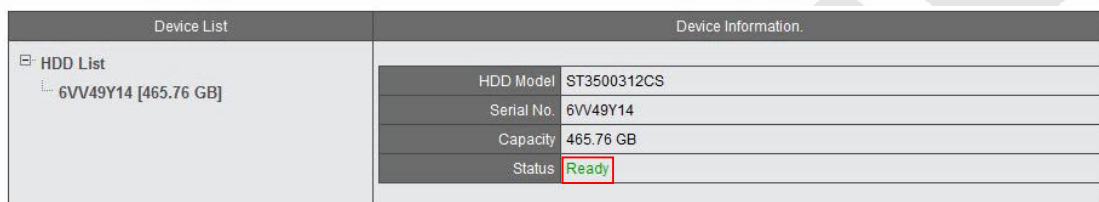
Click “Remove” to delete RAID Disk. Once “Remove” is clicked, a window will pop up to ensure the execution.




To delete RAID Disk, click “OK” to proceed.



Please wait. The deletion is in a process.



If users want to change the RAID level setting, please click “Remove.” After the RAID Disk is removed, the Status in Device information shows “**Ready**,” then users can go back to Create page to continue the new RAID level configuration.

 **Note:** Once you remove the disk and continually create it, the recorded video will be formatted.

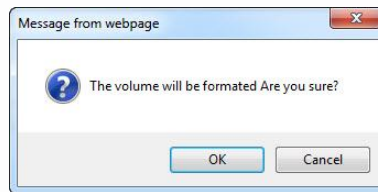
- **Format**

Click “**Format**” to format the RAID disk, all recorded videos will be deleted.

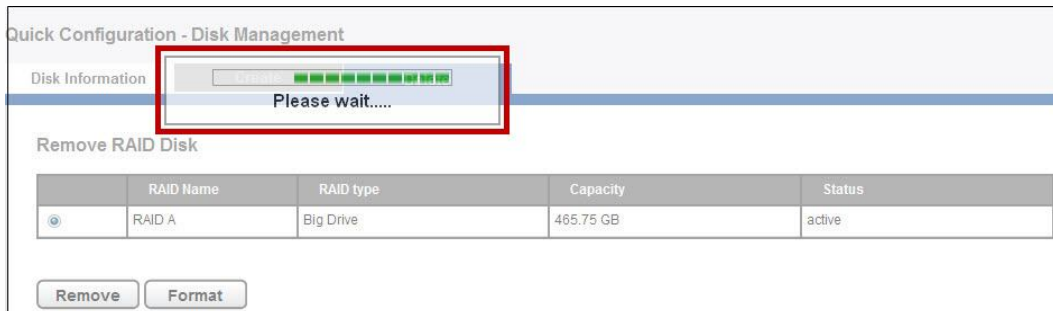
Remove RAID Disk

	RAID Name	RAID type	Capacity	Status
<input checked="" type="radio"/>	RAID A	Big Drive	465.75 GB	active

Once “**Format**” is clicked, a window will pop up to ensure the execution.



To format RAID disk, click “**OK**” to continue.



Hard disk drive is formatting.

Please wait for **formatting until 100%**.

Device List	Device Information.
RAID List	RAID Name RAID A
RAID A [Big Drive, 465.75 GB]	Level linear
HDD1	Capacity 465.75 GB
	Status active
	Action State clean
	Background Activity none
	Progress none

[Back](#) [Next](#)

Camera Settings

NVR provides two options for adding cameras: **UPnP Search** and **Detect**

Camera Settings

Camera No.	5	Streaming Parameters		<input checked="" type="radio"/> NVR Suggestion <input type="radio"/> Camera Defined	
Camera Name	Camera 5	IP Address	192.168.1.	Port	80
Username	admin	Password	*****	Model	
Vendor	Auto	Generic URL		RTSP port	
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera				

[UPnP Search](#) [Apply](#)

Detect:

In this option, users are asked to enter **IP Address and vendor**. Then, click "Apply" to start adding camera.

Camera Settings

Camera No.	12	Streaming Parameters		<input checked="" type="radio"/> NVR Suggestion <input type="radio"/> Camera Defined	
Camera Name	Camera 12	IP Address	192.168.1.	Port	80
Username	admin	Password	*****	Model	
Vendor	Auto	Generic URL		RTSP port	
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera				

[UPnP Search](#) [Apply](#)

Camera Settings

Camera Settings

Camera No.	Camera 6		
Camera Name	cam		
IP Address	192.168.1.133	Port	80
Username	admin	Password
Vendor	Brickcom Corporation	Model	CB-101Ap
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		

Apply Reset

Camera Name, Username and Password are editable.

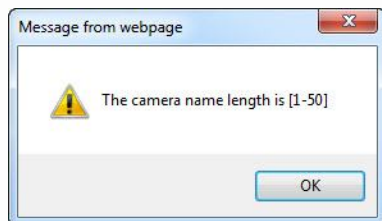
After selecting a specific camera vendor, **username and password** will be automatically filled in by vendor 's default information.

Memorize modified username and password:

NVR also can memorize username and password which is modified by users after users click "Apply" button. Then, the default username and password of that vendor will be replaced by the modified one. Next time when users add new camera of the specific vendor, username and password will be automatically filled in by new modified one.

 **Note:** Each vendor has its own default username and password.

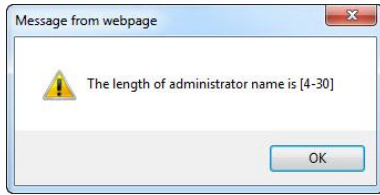
If there is any error occurred in entering the following information, the notification window will pop up as below.



When an inappropriate address is entered, a window will pop up as below.



When an inappropriate user name is entered, a window will pop up as below.



When an inappropriate password is entered, a window will pop up as below.



After the detection is complete, the camera list shows connected camera with **Camera Name**, **IP Address**, **Port**, **Vendor** and **Model**.

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	<input type="button" value="Delete"/>
2	camera2	192.168.1.64	80	Brickcom Corporation	CB-101Ae	<input type="button" value="Delete"/>
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	<input type="button" value="Delete"/>
4	Camera 4	192.168.1.245	80	Auto	C1100-W	<input type="button" value="Delete"/>
5			80			
6	WOB-130Np	192.168.1.129	80	Brickcom Corporation	WOB-130Np	<input type="button" value="Delete"/>
7			80			
8			80			
9			80			
10			80			
11			80			
12			80			
13			80			
14			80			
15			80			
16			80			
17			80			
18			80			
19			80			

All applied cameras will be shown in Camera List and if no more camera needs to be connected, please click “Next” to continue configuration.

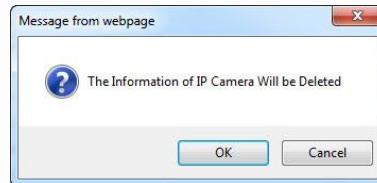
- **Delete**

If any camera should be deleted from camera list, please click the column turning into blue and click “Delete.”

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	<input type="button" value="Delete"/>
2	camera2	192.168.1.64	80	Brickcom Corporation	CB-101Ae	<input type="button" value="Delete"/>
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	<input type="button" value="Delete"/>
4	Camera 4	192.168.1.245	80	Auto	C1100-W	<input type="button" value="Delete"/>

A window will pop up to ensure the action.



To delete the camera, click "OK" to proceed.

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	<input type="button" value="Delete"/>
2	camera2	192.168.1.64	80	Brickcom Corporation	CB-101Ae	<input type="button" value="Delete"/>
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	<input type="button" value="Delete"/>
4	Camera 4	192.168.1.245	80	Auto	C1100-W	<input type="button" value="Delete"/>
5			80			
6			80			
7			80			
8			80			
9			80			
10			80			



Please wait. The deletion is in a process.

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	<input type="button" value="Delete"/>
2			80			
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	<input type="button" value="Delete"/>
4	Camera 4	192.168.1.245	80	Auto	C1100-W	<input type="button" value="Delete"/>

The camera has been deleted from camera list.

- **Generic RTSP/ Generic MJPEG**

Brickcom NVR provides the interface for users to enter RTSP/ MJPEG URLs of IP cameras to receive the video streaming from IP camera. The streaming will be applied to monitoring, recording and playback.

Generic RTSP and Generic MJPEG function can be selected in the vendor list of camera setting page.

Vendor	Auto	Model	
Generic URL	Genie	RTSP port	
Recording Enabled	GeoVision		
	GigaMedia		
	HikVision		
	Hunt		
	iCanTek		
	JVC		
	LILIN		
	Linksys		
	Messoa		
	MOBOTIX		
	NEXCOM		
	Panasonic		
	PROBE		
	Samsung		
	SANYO		
	SECUBEST		
	SecuRex		
	SHANY		
	Sony		
	Sunell		
	Takex		
	ViDigi		
	VIVOTEK		
	WISEO		
	YOKO		
	ZAVIO		
	ONVIF		
	Generic RTSP (H264)		
	Generic MJPEG		

UPnP Search Apply

Camera List

No.	Camera Name	Port	Vendor	Model	Delete
1	Camera1	80	Auto	C1100	Delete
2	Camera2	80			
3	camera3	80	Brickcom Corporation	FB-130Np	Delete
4	Camera 4	80	Auto	C1100-W	Delete
5		80			
6		80			
7		80			
8		80			
9		80			
10		80			
11		80			
12		80			

Follow by entering the Generic URL column with proper RTSP or MJPEG URLs.

If Generic RTSP is selected, RTSP port should be filled out too.

Click “apply” to make parameters enable

Camera Settings

Camera No.	2	Streaming Parameters	<input checked="" type="radio"/> NVR Suggestion <input type="radio"/> Camera Defined
Camera Name	Camera 2	Port	80
IP Address	192.168.1.	Password	•••••
Username	admin	Model	
Vendor	Auto	Generic URL	RTSP port
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		

UPnP Search Apply

⚠ The most correct URLs should be provided from each camera vendors.

⚠ Users may also refer to websites

- <https://www.solerte.com/rtsp/>
- <http://www.ispyconnect.com/sources.aspx>

UPnP Search:

Click “**UPnPSearch**” to find out UPnP devices within the LAN.

Please make sure IP camera supports UPnP Search function.

Please go to IP Camera web page to enable UPnP search function.

Quick Configuration - Camera Settings

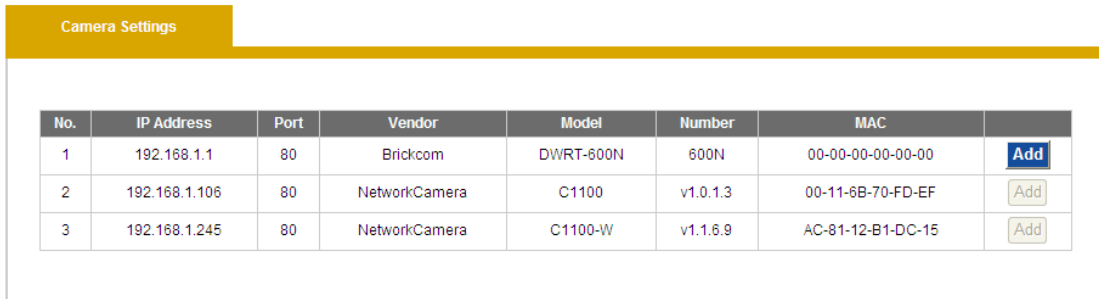


Camera Settings

Please wait.....

Please wait. The UPnP search is in a process.

Quick Configuration - Camera Settings



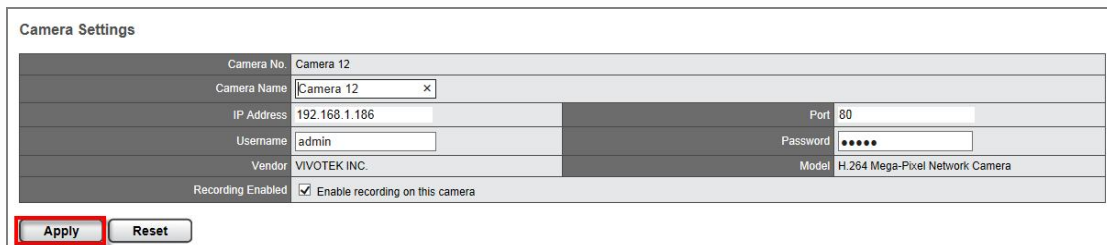
Camera Settings

No.	IP Address	Port	Vendor	Model	Number	MAC	
1	192.168.1.1	80	Brickcom	DWRT-600N	600N	00-00-00-00-00-00	Add
2	192.168.1.106	80	NetworkCamera	C1100	v1.0.1.3	00-11-6B-70-FD-EF	Add
3	192.168.1.245	80	NetworkCamera	C1100-W	v1.1.6.9	AC-81-12-B1-DC-15	Add

The available cameras in the network will be displayed.

Add any camera you want by clicking “**Add**” from the list one by one.

After the search, the window displays Camera Name, IP Address, User Name, Password, Port, Vendor and Model. Please click “Apply” to add new camera.



Camera Settings

Camera No.	Camera 12		
Camera Name	Camera 12		
IP Address	192.168.1.186	Port	80
Username	admin	Password	*****
Vendor	VIVOTEK INC.	Model	H.264 Mega-Pixel Network Camera
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		

[Apply](#) [Reset](#)

Note: NVR will automatically fill in default **username and password** of each vendor. **Camera Name, User Name and Password** can be modified by users.

Memorize modified username and password:

NVR will memorize username and password which is modified by users after users click “Apply” button. Then, the default username and password of that vendor will be replaced by the modified one. Next time when users add new camera of the specific vendor, username and password will be automatically filled in by new modified one.

Note: Each vendor has its own default username and password.

All applied cameras will be shown in Camera List and If no more camera

needs to be connected, please click "**Next**" to continue.

Camera List

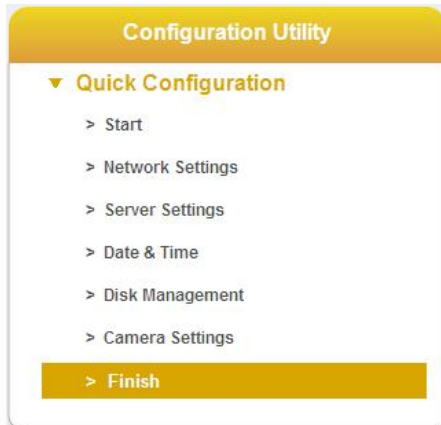
No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	Delete
2			80			
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	Delete
4	Camera 4	192.168.1.245	80	Auto	C1100-W	Delete
5			80			
6			80			

[Back](#) [Next](#)

You can also click "**Delete**" to disconnect the camera.

Finish

Please select "**Finish**" from the drop-down menu of **Configuration Utility** to begin.



Once five steps of Quick Configuration are completed, the window will show the completed status. You can click "**Back**" to return to the previous steps to modify the configuration or click "**Start Live view**" to start monitoring.

Quick Configuration

--Completed--

The settings you have made are shown below. Click **Start Live View** for monitoring, or click **Back** to return to the previous steps and modify settings. If you want to modify other items, please click **Configuration** at the top right.

Step 1 - Network Setup	
Internet Protocol	Specify an IP address
IP Address	192.168.1.110
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	
Step 2 - Server Settings	
Server Name	DS201
Step 3 - Date/Time	
Time Zone	(GMT+08:00)Taiwan
Time Settings	2014/2/27 17:58:27
Step 4 - Disk Management	
Disk Configuration	linear (Big Drive)
Step 5 - Camera Settings	
IP Camera	You have configured 3 camera(s)

[Back](#) [Start Live View](#)


To review the setting or information of Quick Configuration, user can also select **“Quick Configuration”** in the left of the Configuration main page.

▼ Quick Configuration

> Quick Configuration

Use NVR by Local Display

NVR can be connected to a monitor via HDMI and VGA port to execute quick configuration and display live view.

 **Note:** Local display feature is supported in NR-1104 , NR-2104 , NR-2108 , NR-2116.

To start local display, please check the steps below:

Please install at least one hard disk drive in your NVR.

Connect NVR and IP cameras to the network.

Make sure the monitor is connected to the port (HDMI /VGA/ DVI-I) of NVR rear panel.

Please connect a USB mouse to the USB port of NVR.

Please connect power cord and connector to turn on NVR.

When you enter the log in interface of NVR, please enter default user name “**admin**” and password “**admin**” and select languages.

Log in NVR

Users have to key in the correct username and password to login NVR

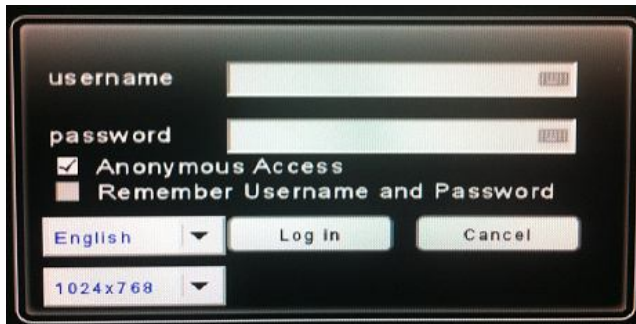


Resolution:

User can select the resolution 1920x1080 or 1024x768 in login page, when the monitor supports both types of resolution.

Anonymous login

Anonymous login allows users to login without username and password.

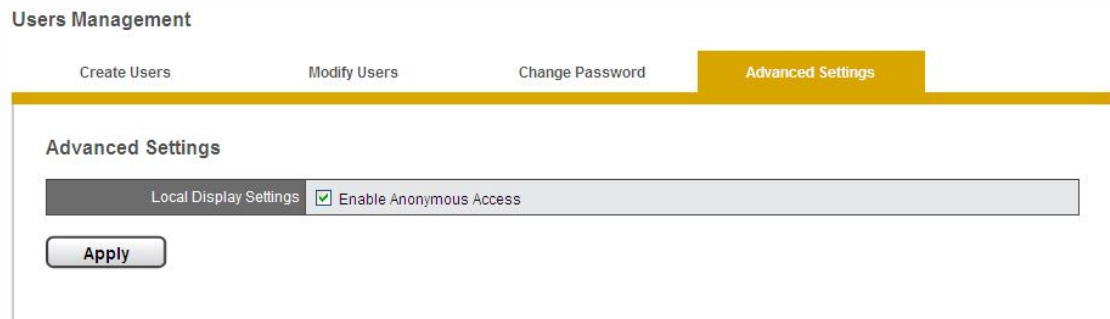


Anonymous user can only view live monitoring and playback page in local monitor, however, the configuration page will be disabled. While anonymous login is applied, system will automatically log in without authorization process after boot up.

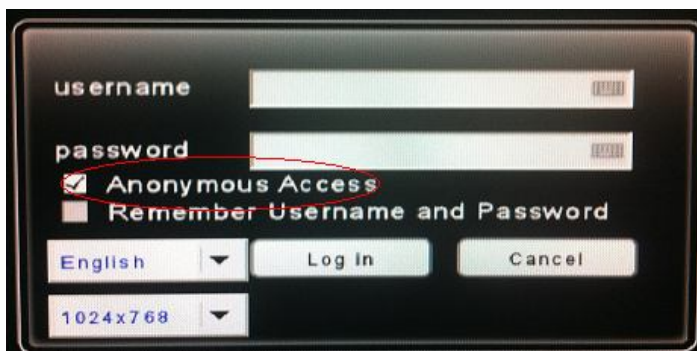
Start to setup the anonymous login

Please go to “Configuration->Management->Users Management->Advance Settings” in remote web browser.

Check the “Enable Anonymous Access.”

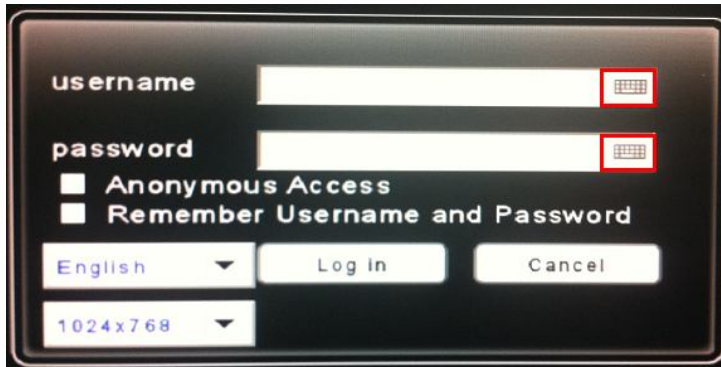


Enable the “Anonymous” at the local display login page, and then log in.



Virtual Keyboard

Users can choose to use USB keyboard for typing in local display of DIGISTOR, or fill out columns with virtual keyboard. The virtual keyboard in local display can be enabled from the right side of each column.



There are 3 types of virtual keyboard can be chosen, including Upper case, Lower case and Symbols.

-Upper case



-Lower case



-Symbols

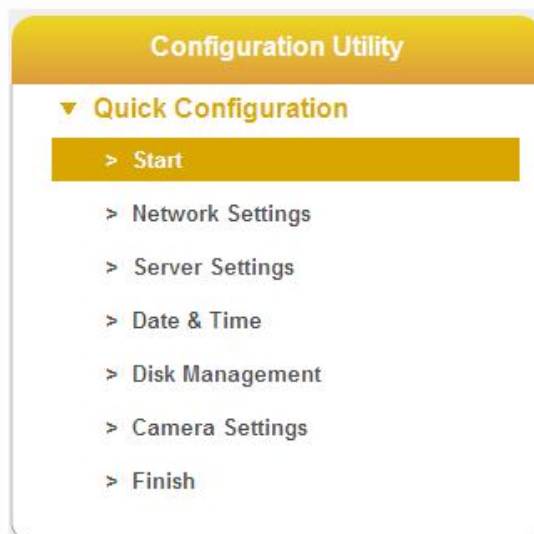


Quick Configuration

After you log in local display of NVR, the system will direct you to set Quick Configuration in five main steps. Follow the instructions of the Overview of wizard to complete the system setup.

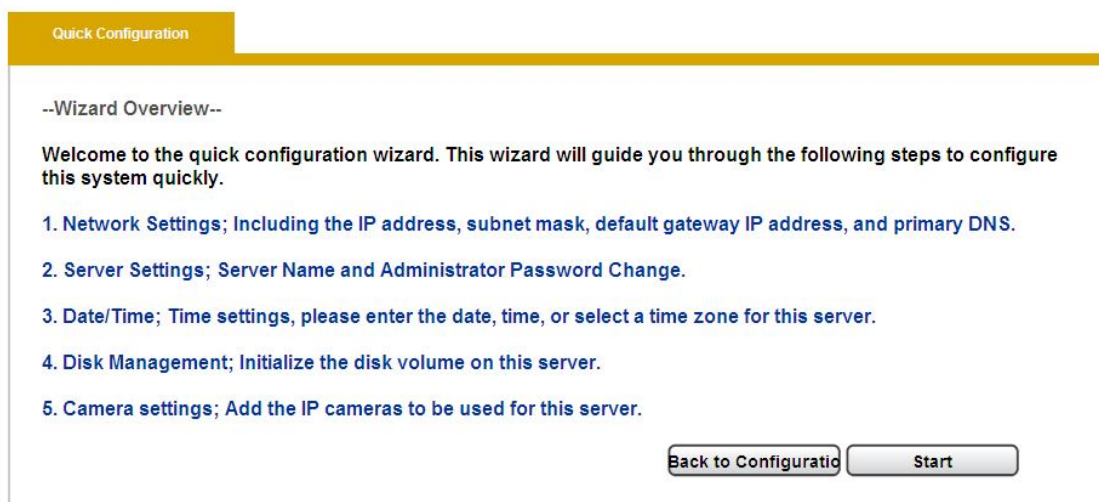
Start

System will lead you to “**Start**” from the drop-down menu of **Configuration Utility** to begin.



To initial the configuration, please study the **Overview of wizard** first. Through five steps, the wizard will guide you to set up the system quickly.

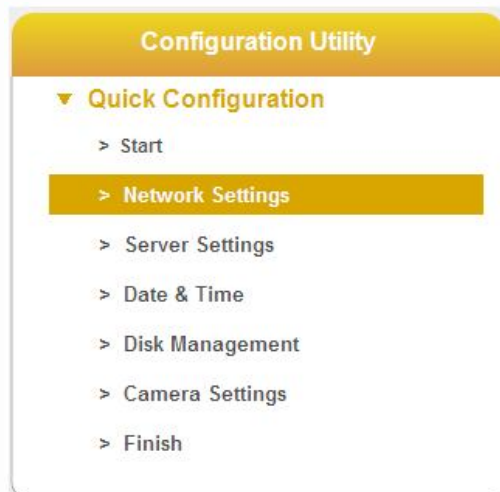
Quick Configuration - Start



Click “**Start**” in Overview of wizard page to begin Quick Configuration.

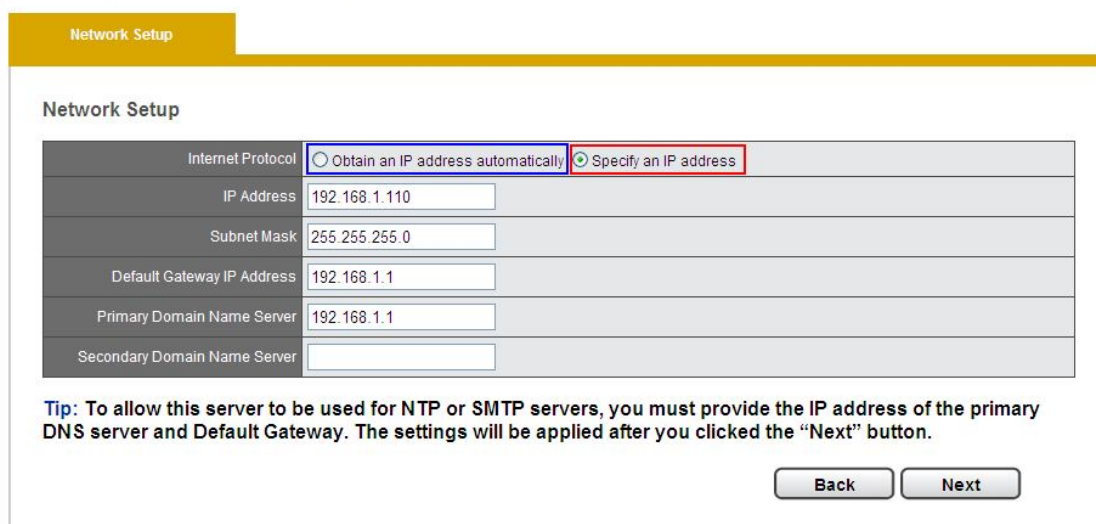
Network Settings

Please select “**Network Settings**” from the drop-down menu of **Configuration Utility** to begin.



Users need to adjust the settings in the Network Setup page in order to let NVR work properly within network.

Quick Configuration - Network Setup



The image shows a screenshot of the 'Network Setup' configuration page. The page has a yellow header with the text 'Network Setup'. Below the header, there is a form titled 'Network Setup'. The form contains several fields and a tip. The 'Internet Protocol' field has two radio buttons: 'Obtain an IP address automatically' (which is unselected) and 'Specify an IP address' (which is selected). Below this, there are five rows of input fields: 'IP Address' (192.168.1.110), 'Subnet Mask' (255.255.255.0), 'Default Gateway IP Address' (192.168.1.1), 'Primary Domain Name Server' (192.168.1.1), and 'Secondary Domain Name Server' (empty). Below the form, there is a tip: 'Tip: To allow this server to be used for NTP or SMTP servers, you must provide the IP address of the primary DNS server and Default Gateway. The settings will be applied after you clicked the “Next” button.' At the bottom right of the form, there are two buttons: 'Back' and 'Next'.

There are 2 methods to configure IP address

1. Obtain an IP address automatically (NVR Default)

Obtain an available dynamic IP address assigned by a DHCP server. If this option is selected, NVR will automatically obtain an available dynamic IP address from the DHCP server once it connects to the network.

2. Specify an IP address.

If there is no DHCP server existing in network environments, the static IP address will be given as **192.168.1.245**. It should be adaptable in most

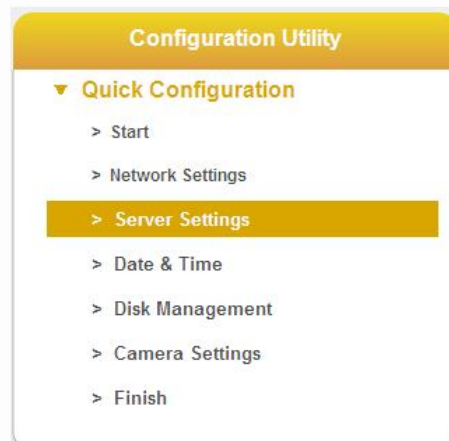
networking environment, and user can choose to maintain the default IP address or change it in this page. However, it's recommended setting different IP address of NVR if there is more than one NVR in the same LAN.

To assign a static IP address to the NVR:

1. Select "Specify an IP address"
2. Enter the IP address, Subnet Mask, Default Gateway IP Address and DNS server address.
3. If IP Address is changed, user needs to log out NVR and login in again. Click "**Next**" to proceed with the configuration.

Server Settings

Please select "**Server Settings**" from the drop-down menu of **Configuration Utility** to begin.



Quick Configuration - Server Settings

Server name

Server name with UPnP

Enabled	<input checked="" type="checkbox"/>
Server Name	<input type="text" value="DS201"/> (Max. size: 32 characters)

Tip: To create a unique name for this server. The settings will be applied after you clicked the "Next" button.

Password Settings

Username	admin	<input type="checkbox"/> Use the original password
New Password	<input type="text"/>	(Max. size: 15 characters)
Retype Password	<input type="text"/>	

Tip: If you select "Use the original password," the administrator password will not be changed. The settings will be applied after you clicked the "Next" button.

- **Server name with UPnP**

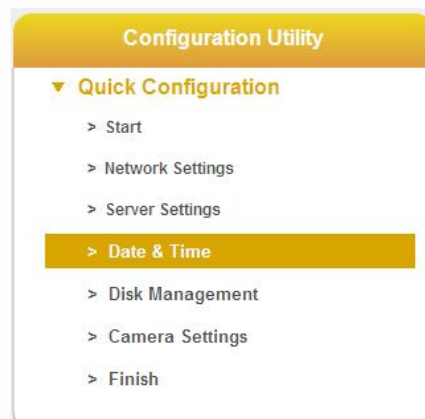
Universal Plug and Play (UPnP) simplifies the process of adding a NVR to a local area network. Once connected to LAN, the NVR will automatically appear on the internet. User can select to enable the function with UPnP and edit a sever name.

- **Password Settings**

Each NVR comes with a built-in **“admin”** account with password **“admin.”** It’s highly recommended to change the password upon the initial login. Enter a new password in the **“New Password”** field and enter it again in **“Retype Password.”** Since you confirm **“Next,”** the administrator password will be changed.

Date & Time

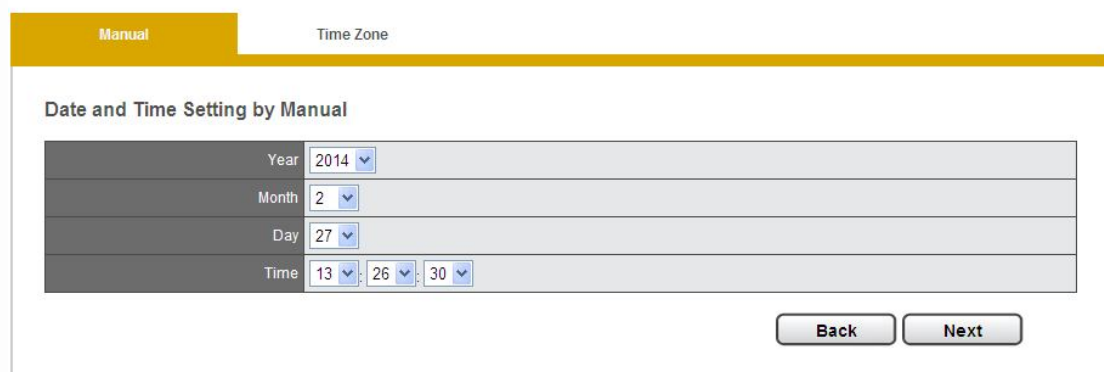
Please select **“Date & Time”** from the drop-down menu of **Configuration Utility** to begin.



3. Manual setting

Use the drop-down list and configure the time manually. Select the **Year, Month, Date and Time**. Time setting will be effective when you click **“Next.”**

Quick Configuration - Date/Time

A screenshot of the 'Date and Time Setting by Manual' configuration screen. At the top, there are two tabs: 'Manual' (selected) and 'Time Zone'. The main content area is titled 'Date and Time Setting by Manual' and contains a table with four rows for date and time selection. The 'Year' row has a dropdown menu showing '2014'. The 'Month' row has a dropdown menu showing '2'. The 'Day' row has a dropdown menu showing '27'. The 'Time' row has three dropdown menus showing '13', '26', and '30'. At the bottom right of the form, there are two buttons: 'Back' and 'Next'.

4. Time Zone: Synchronize with an Internet time server automatically.

Select the time zone of your area and update the date and time of the Brickcom automatically with an NTP server. User also has an option to automatically adjust daylight saving time.

Quick Configuration - Date/Time

Manual **Time Zone**

Time Zone

Time Zone	(GMT+08:00)Taiwan
	<input type="checkbox"/> Automatically adjust clock for Daylight Saving Time
NTP Server	time.stdtime.gov.tw <input type="button" value="Network Test"/>

Tip: Please make sure this server is connected to the internet to ensure the date and time are synchronized with the online NTP service. And please go to camera web page to set this NVR server as NTP server, to synchronize the date and time of all cameras.

Configure the time and date by verifying and adjusting current local time and daylight saving to avoid the following errors:

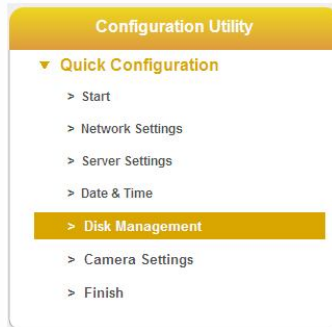
- Incorrect display time for playback videos.
- Inconsistent display time of event logs and when they actually occur.

Please enter the hostname of a valid NTP server to synchronize the server time with an Internet time server. NTP (Network Time Protocol) is a protocol to synchronize the clocks of a computer system.



Disk Management

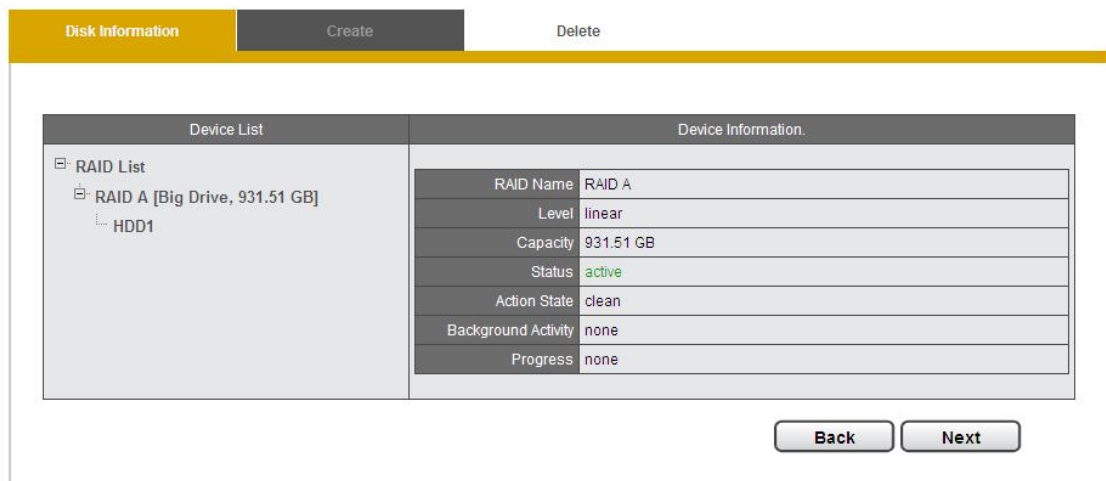
Please select “**Disk Management**” from the drop-down menu of **Configuration Utility** to begin.



If hard disk is not installed in NVR, the page will show “**Disk doesn’t exist.**” Once an available hard disk drive is inserted into the tray, Disk Information will show in **Device Information** and users can start to create new RAID Disk.

4. Disk Information

Quick Configuration - Disk Management



The image shows a screenshot of the 'Disk Information' page. At the top, there is a yellow header with the text 'Disk Information' and two buttons: 'Create' and 'Delete'. Below this, there is a table with two columns: 'Device List' and 'Device Information.'. The 'Device List' column shows a tree view with 'RAID List' expanded, containing 'RAID A [Big Drive, 931.51 GB]' and 'HDD1'. The 'Device Information.' column shows a table with the following details:

Property	Value
RAID Name	RAID A
Level	linear
Capacity	931.51 GB
Status	active
Action State	clean
Background Activity	none
Progress	none

At the bottom right of the page, there are two buttons: 'Back' and 'Next'.

Device Information provides details of the hard disk drive: **HDD Model**, **Serial NO.**, **Capacity** and **Status**.

5. Create

Device List	Device Information.
HDD List 6VV49Y14 [465.76 GB]	HDD Model: ST3500312CS Serial No.: 6VV49Y14 Capacity: 465.76 GB Status: Ready

[Back](#) [Next](#)

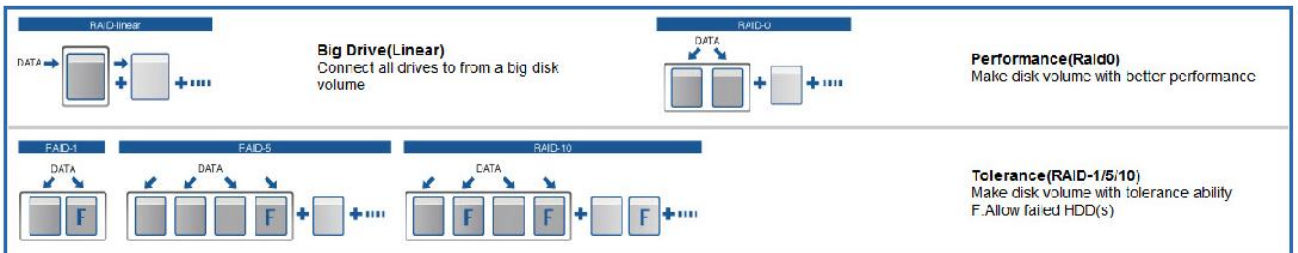
As the hard disk drive is available, the status of Device Information shows “**Ready,**” which indicates the hard disk drive is **ready to be created.**

Please click “**Create**” to enter the window for building New RAID Disk and select the hard disk drive in the Free HDDs field.

New RAID Disk

Free HDDs 5VX21DWX [931 GB]	Assigned HDDs
>> <<	
Target RAID Disk	
<input type="radio"/> Big Drive(Linear) [0 GB]	<input type="radio"/> Performance(Raid0) [0 GB]
<input type="radio"/> Fault Tolerant(Raid1) [0 GB]	<input type="radio"/> Fault Tolerant(Raid5) [0 GB]
<input type="radio"/> Fault Tolerant(Raid10) [0 GB]	

RAID Modes



[Apply](#) [Reset](#)

The selected hard disk drive in the Free HDDs field will be marked in blue and please click **>>** to recruit the hard disk drive into Assigned HDDs field.

New RAID Disk

Free HDDs

3VX20DWX [931 GB]

Assigned HDDs

>>
|
<<

Target RAID Disk

Big Drive(Linear) [0 GB]

Fault Tolerant(Raid1) [0 GB]

Fault Tolerant(Raid10) [0 GB]

Performance(Raid0) [0 GB]

Fault Tolerant(Raid5) [0 GB]

RAID Modes

RAID-linear

Big Drive(Linear)
Connect all drives to from a big disk volume

RAID-0

Performance(Raid0)
Make disk volume with better performance

RAID-1

RAID-5

RAID-10

Tolerance(RAID-1/5/10)
Make disk volume with tolerance ability
F.Allow failed HDD(s)

Apply
Reset

The selected hard disk drive in Assigned HDDs field will be marked in blue.

Target RAID Disk

Big Drive(Linear) [0 GB]

Fault Tolerant(Raid1) [0 GB]

Fault Tolerant(Raid10) [0 GB]

Performance(Raid0) [0 GB]

Fault Tolerant(Raid5) [0 GB]

Meanwhile, Target RAID Disk is ready to build RAID disk and it shows five types of disk configuration.

The introduction of disk configuration is in the below table.

Disk Configuration

Big Drive (Linear)	Big Drive is a collection of hard disk drives and does not provide any RAID protection. The data are written to the disks continuously.
Performance (Raid0)	RAID0is one larger volume with 2 or more hard disk drives. The data are written to the hard disk drives without any parity information. The total storage capacity is the sum of all hard disk drives.
Fault Tolerant (Raid1)	2 hard disk drives are required to create a RAID1 array. RAID1 can provide disk mirroring by duplicating the data between two hard disk drives.

<p>Fault Tolerant (Raid5)</p>	<p>A minimum of 3 hard disk drives are required to create RAID5. The data are striped in all hard drives in a RAID5 array and the parity information is stored in each drive. If a hard disk drive fails, the array enters degraded mode. The data can be rebuilt from other member drives after installing a new drive to replace the failed one.</p>
--------------------------------------	--

New RAID Disk

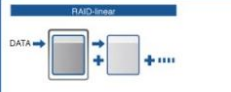
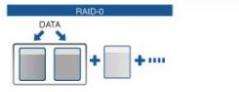
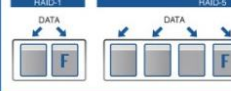


<p>Free HDDs</p> <p>5VX20DWX [931 GB]</p>	<p>Assigned HDDs</p>
---	----------------------

>> <<


Target RAID Disk

<input type="radio"/> Big Drive(Linear) [0 GB]	<input type="radio"/> Performance(Raid0) [0 GB]
<input type="radio"/> Fault Tolerant(Raid1) [0 GB]	<input type="radio"/> Fault Tolerant(Raid5) [0 GB]
<input type="radio"/> Fault Tolerant(Raid10) [0 GB]	

RAID Modes

<p>RAID-Linear</p>  <p>Big Drive(Linear) Connect all drives to form a big disk volume</p>	<p>RAID-0</p>  <p>Performance(Raid0) Make disk volume with better performance</p>
<p>RAID-1</p>  <p>Tolerance(RAID-1/5/10) Make disk volume with tolerance ability F.Allow failed HDD(s)</p>	<p>RAID-5</p>  <p>Tolerance(RAID-1/5/10) Make disk volume with tolerance ability F.Allow failed HDD(s)</p>
<p>RAID-10</p>  <p>Tolerance(RAID-1/5/10) Make disk volume with tolerance ability F.Allow failed HDD(s)</p>	

Select a type of disk configuration, and please click “**Apply**” to execute building new RAID disk.

 **Note:** Don’t turn off the server or unplug any hard drives when RAID Disk is in building process.

Please wait. The disk configuration is in a process.



Device List	Device Information.
RAID List	RAID Name RAID A
RAID A [Big Drive, 465.75 GB]	Level linear
HDD1	Capacity 465.75 GB
	Status active
	Action State clean
	Background Activity none
	Progress formatting 20%

Back Next

The progress is under “formatting....20%”. Please wait till 100%.

Device List	Device Information.
RAID List	RAID Name RAID A
RAID A [Big Drive, 465.75 GB]	Level linear
HDD1	Capacity 465.75 GB
	Status active
	Action State clean
	Background Activity none
	Progress create swap

Back Next

The progress is in “Create swap” and is going to finish the disk building.

Device List	Device Information.
RAID List	RAID Name RAID A
RAID A [Big Drive, 465.75 GB]	Level linear
HDD1	Capacity 465.75 GB
	Status active
	Action State clean
	Background Activity none
	Progress none

Back Next

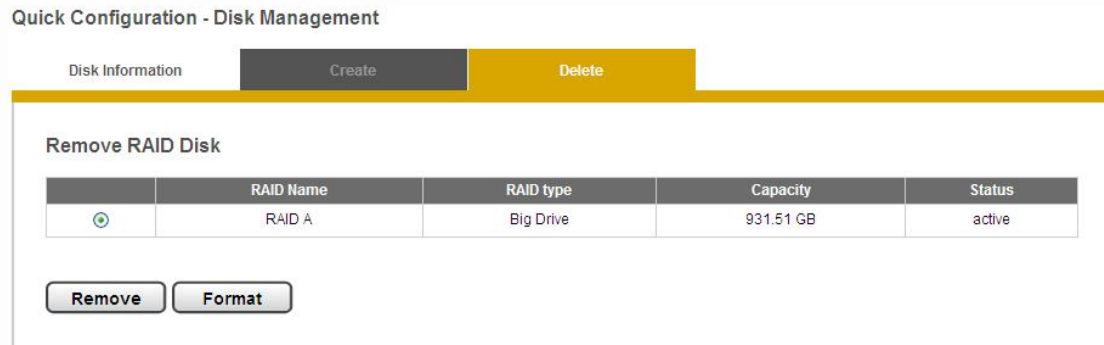
Finally, the RAID disk building is complete.

After the RAID disk is created, RAID List shows RAID Name and available storage devices. Device Information provides status of the hard drive: **RAID Name, Level, Capacity, Status-Active, Action State, Background Activity** and **Progress-none**.

6. Delete

After the RAID Disk is created, “Delete” option is available.

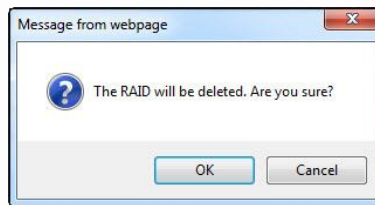
If user is going to delete RAID disk, please refer to following description.



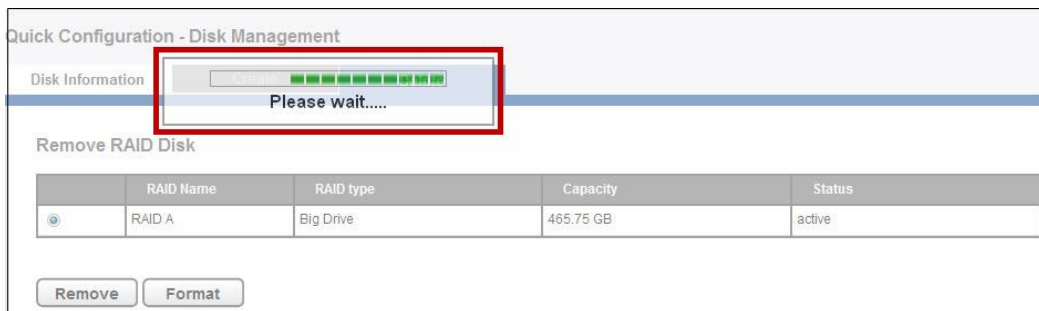
In “Delete” option, user can remove or format RAID disk by selecting the **RAID disk**. In the table, **RAID Name**, **RAID type**, **Capacity** and **Status** are shown.

- **Remove**

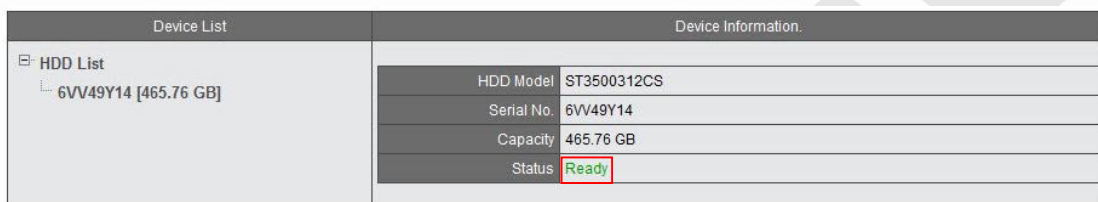
Click “Remove” to delete RAID Disk. Once “Remove” is clicked, a window will pop up to ensure the execution.




To delete RAID Disk, click “OK” to proceed.



Please wait. The deletion is in a process.



If users want to change the RAID level setting, please click “Remove.” After the RAID Disk is removed, the Status in Device information shows “Ready,” then users can go back to Create page to continue the new RAID level configuration.

 **Note:** Once you remove the disk and continually create it, the recorded video will be formatted.

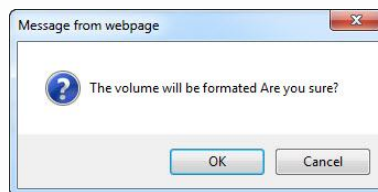
- **Format**

Click “**Format**” to format the RAID disk, all recorded videos will be deleted.

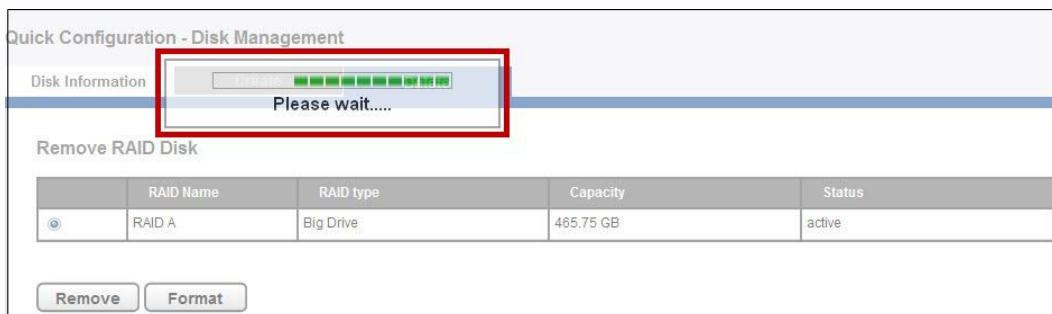
Remove RAID Disk

	RAID Name	RAID type	Capacity	Status
<input checked="" type="radio"/>	RAID A	Big Drive	465.75 GB	active

Once “**Format**” is clicked, a window will pop up to ensure the execution.



To format RAID disk, click “**OK**” to continue.



Hard disk drive is formatting.

Please wait for **formatting until 100%**.

Device List	Device Information.
RAID List	RAID Name RAID A
RAID A [Big Drive, 465.75 GB]	Level linear
HDD1	Capacity 465.75 GB
	Status active
	Action State clean
	Background Activity none
	Progress none

[Back](#) [Next](#)

Camera Settings

NVR provides two options for adding cameras: **UPnP Search** and **Detect**

Camera Settings

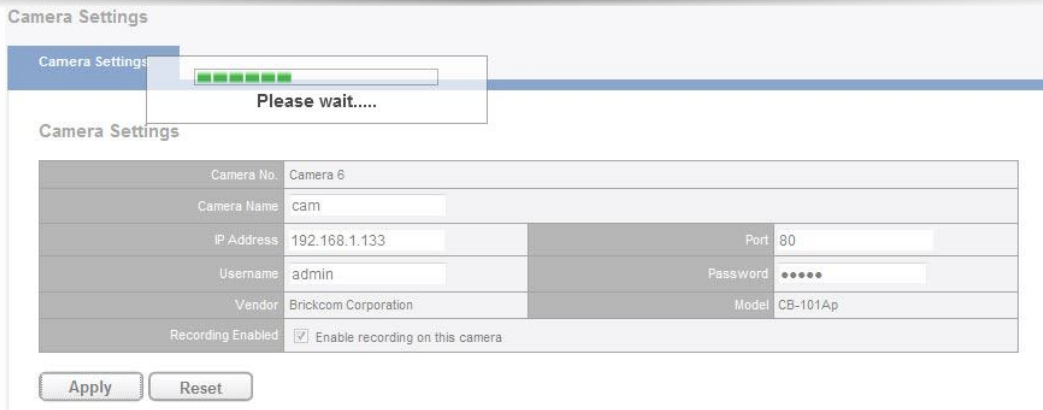
Camera No.	5	Streaming Parameters	
Camera Name	Camera 5	<input checked="" type="radio"/> NVR Suggestion	<input type="radio"/> Camera Defined
IP Address	192.168.1.	Port	80
Username	admin	Password	*****
Vendor	Auto	Model	
Generic URL		RTSP port	
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		

[UPnP Search](#) [Apply](#)

Detect:

In this option, users are asked to enter **IP Address and vendor**. Then, click "Apply" to start adding camera.

The screenshot shows the 'Camera Settings' form for Camera No. 12. Red boxes and numbers highlight the 'IP Address' field (192.168.1.), the 'Vendor' dropdown menu (Auto), and the 'Apply' button. The 'UPnP Search' button is also visible.




Camera Name, Username and Password are editable.

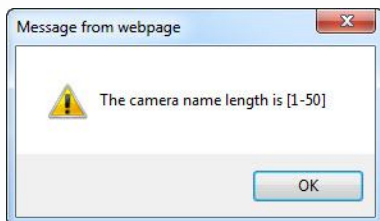
After selecting a specific camera vendor, **username and password** will be automatically filled in by vendor 's default information.

Memorize modified username and password:

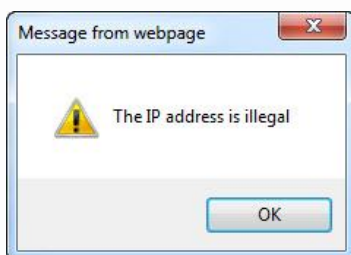
NVR also can memorize username and password which is modified by users after users click "Apply" button. Then, the default username and password of that vendor will be replaced by the modified one. Next time when users add new camera of the specific vendor, username and password will be automatically filled in by new modified one.

 **Note:** Each vendor has its own default username and password.

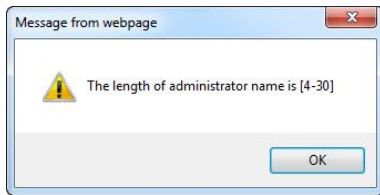
If there is any error occurred in entering the following information, the notification window will pop up as below.



When an inappropriate address is entered, a window will pop up as below.



When an inappropriate user name is entered, a window will pop up as below.



When an inappropriate password is entered, a window will pop up as below.



After the detection is complete, the camera list shows connected camera with **Camera Name**, **IP Address**, **Port**, **Vendor** and **Model**.

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	<input type="button" value="Delete"/>
2	camera2	192.168.1.64	80	Brickcom Corporation	CB-101Ae	<input type="button" value="Delete"/>
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	<input type="button" value="Delete"/>
4	Camera 4	192.168.1.245	80	Auto	C1100-W	<input type="button" value="Delete"/>
5			80			
6	WOB-130Np	192.168.1.129	80	Brickcom Corporation	WOB-130Np	<input type="button" value="Delete"/>
7			80			
8			80			
9			80			
10			80			
11			80			
12			80			
13			80			
14			80			
15			80			
16			80			
17			80			
18			80			
19			80			

All applied cameras will be shown in Camera List and if no more camera needs to be connected, please click “Next” to continue configuration.

- **Delete**

If any camera should be deleted from camera list, please click the column turning into blue and click “Delete.”

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	Delete
2	camera2	192.168.1.64	80	Brickcom Corporation	CB-101Ae	Delete
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	Delete
4	Camera 4	192.168.1.245	80	Auto	C1100-W	Delete

A window will pop up to ensure the action.



To delete the camera, click "OK" to proceed.

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	Delete
2	camera2	192.168.1.64	80	Brickcom Corporation	CB-101Ae	Delete
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	Delete
4	Camera 4	192.168.1.245	80	Auto	C1100-W	Delete
5			80			
6			80			
7			80			
8			80			
9			80			
10			80			



Please wait. The deletion is in a process.

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	Delete
2			80			
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	Delete
4	Camera 4	192.168.1.245	80	Auto	C1100-W	Delete

The camera has been deleted from camera list.

- **Generic RTSP/ Generic MJPEG**

Brickcom NVR provides the interface for users to enter RTSP/ MJPEG URLs of IP cameras to receive the video streaming from IP camera. The streaming will be applied to monitoring, recording and playback.

Generic RTSP and Generic MJPEG function can be selected in the vendor list of camera setting page.

Vendor	Auto	Model	
Generic URL	Genie	RTSP port	
Recording Enabled	GeoVision		
	GigaMedia		
	HikVision		
	Hunt		
	iCanTek		
	JVC		
	LILIN		
	Linksys		
	Messoa		
	MOBOTIX		
	NEXCOM		
	Panasonic		
	PROBE		
	Samsung		
	SANYO		
	SECUBEST		
	SecuRex		
	SHANY		
	Sony		
	Sunell		
	Takex		
	ViDigi		
	VIVOTEK		
	WISEO		
	YOKO		
	ZAVIO		
	ONVIF		
	Generic RTSP (H264)		
	Generic MJPEG		

UPnP Search Apply

Camera List

No.	Camera Name	Port	Vendor	Model	Delete
1	Camera1	80	Auto	C1100	Delete
2	Camera2	80			
3	camera3	80	Brickcom Corporation	FB-130Np	Delete
4	Camera 4	80	Auto	C1100-W	Delete
5		80			
6		80			
7		80			
8		80			
9		80			
10		80			
11		80			
12		80			

Follow by entering the Generic URL column with proper RTSP or MJPEG URLs.


If Generic RTSP is selected, RTSP port should be filled out too.


Click "apply" to make parameters enable

Camera Settings

Camera No.	2	Streaming Parameters	<input checked="" type="radio"/> NVR Suggestion <input type="radio"/> Camera Defined
Camera Name	Camera 2	Port	80
IP Address	192.168.1.	Password	•••••
Username	admin	Model	
Vendor	Auto	Generic URL	RTSP port
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		

UPnP Search Apply

 The most correct URLs should be provided from each camera vendors.

 Users may also refer to websites

- <https://www.soleratec.com/rtsp/>
- <http://www.ispyconnect.com/sources.aspx>

UPnP Search:

Click "**UPnPSearch**" to find out UPnP devices within the LAN.

Please make sure IP camera supports UPnP Search function.

Please go to IP Camera web page to enable UPnP search function.

Quick Configuration - Camera Settings

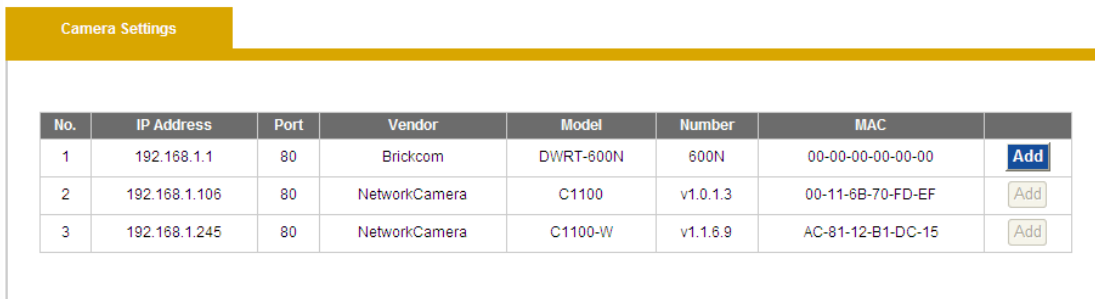


Camera Settings

Please wait.....

Please wait. The UPnP search is in a process.

Quick Configuration - Camera Settings



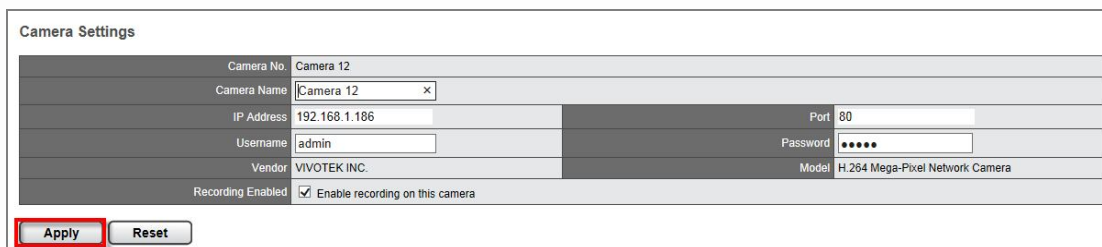
Camera Settings

No.	IP Address	Port	Vendor	Model	Number	MAC	
1	192.168.1.1	80	Brickcom	DWRT-600N	600N	00-00-00-00-00-00	Add
2	192.168.1.106	80	NetworkCamera	C1100	v1.0.1.3	00-11-6B-70-FD-EF	Add
3	192.168.1.245	80	NetworkCamera	C1100-W	v1.1.6.9	AC-81-12-B1-DC-15	Add

The available cameras in the network will be displayed.

Add any camera you want by clicking “**Add**” from the list one by one.

After the search, the window displays Camera Name, IP Address, User Name, Password, Port, Vendor and Model. Please click “Apply” to add new camera.



Camera Settings

Camera No.	Camera 12		
Camera Name	Camera 12		
IP Address	192.168.1.186	Port	80
Username	admin	Password	*****
Vendor	VIVOTEK INC.	Model	H.264 Mega-Pixel Network Camera
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		

[Apply](#) [Reset](#)

Note: NVR will automatically fill in default **username and password** of each vendor. **Camera Name, User Name and Password** can be modified by users.

Memorize modified username and password:

NVR will memorize username and password which is modified by users after users click “Apply” button. Then, the default username and password of that vendor will be replaced by the modified one. Next time when users add new camera of the specific vendor, username and password will be automatically filled in by new modified one.

Note: Each vendor has its own default username and password.

All applied cameras will be shown in Camera List and If no more camera

needs to be connected, please click "**Next**" to continue.

Camera List

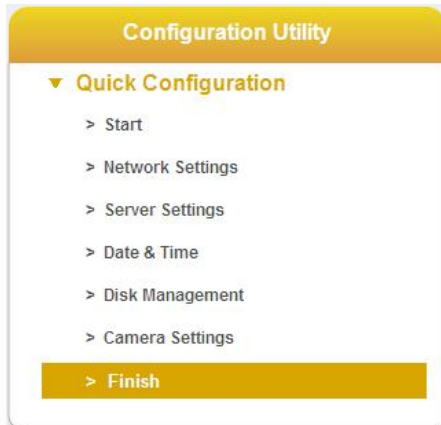
No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera1	192.168.1.106	80	Auto	C1100	Delete
2			80			
3	camera3	192.168.1.108	80	Brickcom Corporation	FB-130Np	Delete
4	Camera 4	192.168.1.245	80	Auto	C1100-W	Delete
5			80			
6			80			

[Back](#) [Next](#)

You can also click "**Delete**" to disconnect the camera.

Finish

Please select "**Finish**" from the drop-down menu of **Configuration Utility** to begin.



Once five steps of Quick Configuration are completed, the window will show the completed status. You can click "**Back**" to return to the previous steps to modify the configuration or click "**Start Live view**" to start monitoring.

Quick Configuration

--Completed--

The settings you have made are shown below. Click **Start Live View** for monitoring, or click **Back** to return to the previous steps and modify settings. If you want to modify other items, please click **Configuration** at the top right.

Step 1 - Network Setup	
Internet Protocol	Specify an IP address
IP Address	192.168.1.110
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	
Step 2 - Server Settings	
Server Name	DS201
Step 3 - Date/Time	
Time Zone	(GMT+08:00)Taiwan
Time Settings	2014/2/27 17:58:27
Step 4 - Disk Management	
Disk Configuration	linear (Big Drive)
Step 5 - Camera Settings	
IP Camera	You have configured 3 camera(s)

[Back](#) [Start Live View](#)

To review the setting or information of Quick Configuration, user can also select **“Quick Configuration”** in the left of the Configuration main page.

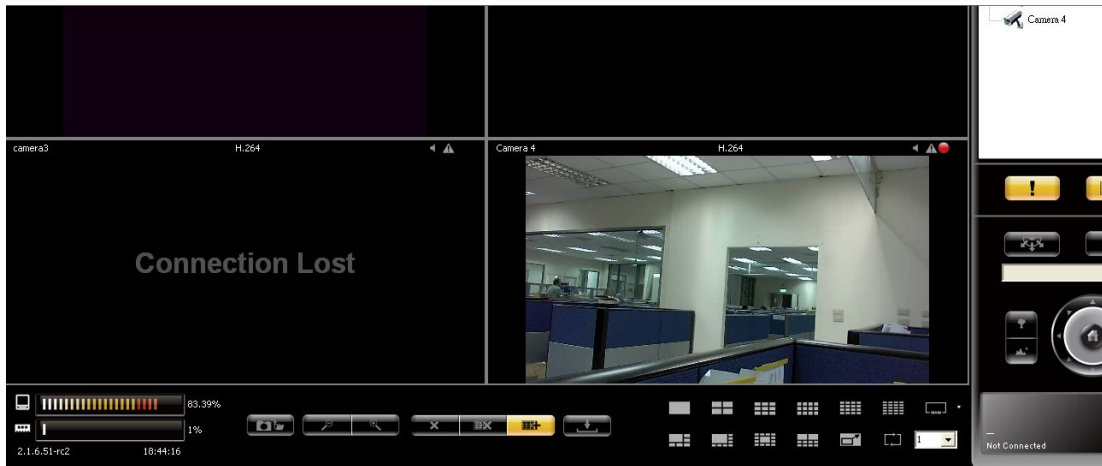
▼ Quick Configuration

> Quick Configuration







Live View

After the Quick Configuration is complete, users can successfully monitor IP cameras. In live view page, users can monitor cameras in various display modes and control PTZ cameras.

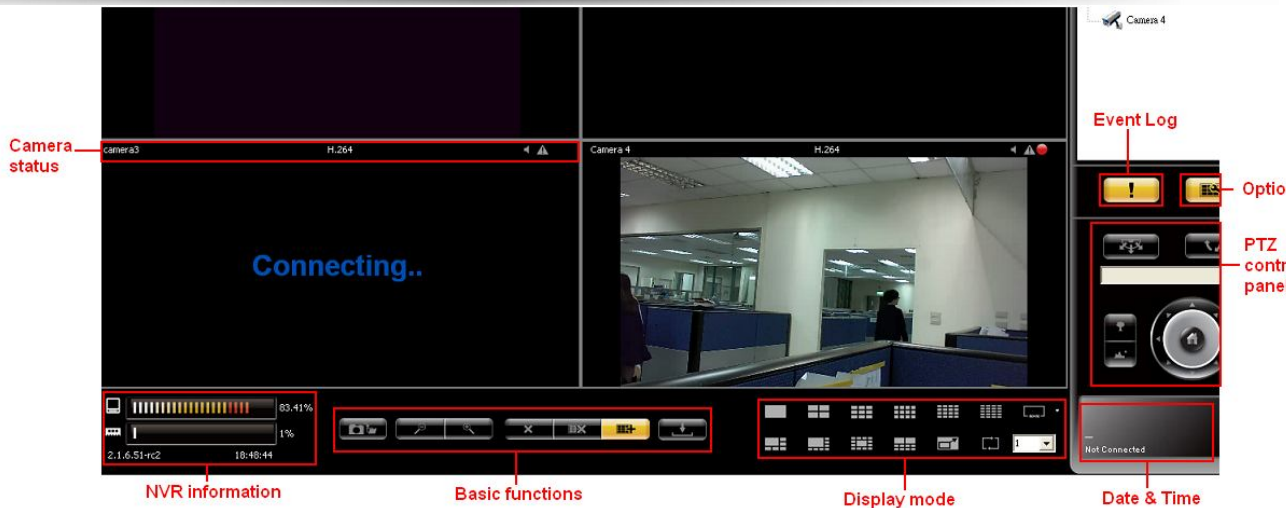


Select View Modes on Live View Page







On top right of live view, users can select four view modes.

Mode	Description
	Live View: Click " Live View " to control the monitoring instantaneously.
	Playback: Click " Playback " to play and to export the recorded video files.
	Configuration: Click " Configuration " to configure camera, recording, event, management, network, quick configuration and system.
	Logout: Click " Logout " to leave NVR.

Main Functions for Live View



Camera status

Icon	Description
	Camera name: The name of the camera is located in the top left corner in each video window. Users can rename the camera via the path "Configuration->IP Camera->Camera Settings."
	Video compression format: M-JPEG/MPEG-4/H.264
	Audio: Once camera supports audio, NVR shows audio in blue. Vice versa, DIGISTOR shows audio in grey.
	Event: When event happens, NVR shows warning to user for instant alert.
	Recording status: The window shows whether camera is recording or not.
	Blue border: The outline border surrounds the selected window to highlight the focus image.

NVR information

Firmware version

User can easily find out the firmware version in the live view page.

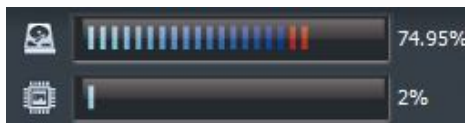


Disk and CPU loading indicator:

Users can find out Disk and CPU loading directly without entering configuration page.










Disk and CPU loading indicator shows blue when loading is 70% or under, and shows red as a warning when it reaches more than 70%.















With changing the video configuration, like resolution, FPS and video quality or changing RAID type, can influence the CPU loading, and users can easily find the best balance in NVR.

Basic functions

Icon	Description
	Snapshot: Take a snapshot on the camera that you select. The snapshot will be saved in "Public ->liveview_snapshot." It can be accessed through Windows Networking or FTP service at File Sharing service in Configuration page.
	Digital zoom in/ out: Select a channel to enable digital zoom function
	Drop: Drop the camera from monitoring.
	Drop all: Drop all cameras from monitoring.
	Add all: Add all cameras from monitoring.
	Mute: Alter sound instrument from camera.
	Date & Time: Show the specific day and time.






Display mode

NVR supports multi-display modes for monitoring. Click the icon of display mode to monitor live view. When you click a display mode, the mode icons will turn into blue.

Icon	Description
	Full Screen
	1 screen
	4 screen
	9 screen
	screen
	screen
	screen
	25 screen
	+1 screen
	Sequential mode
	<div style="text-align: right;">  1 2 3 4 </div> <p>Click  to choose the page of liveview</p>

PTZ Control Panel

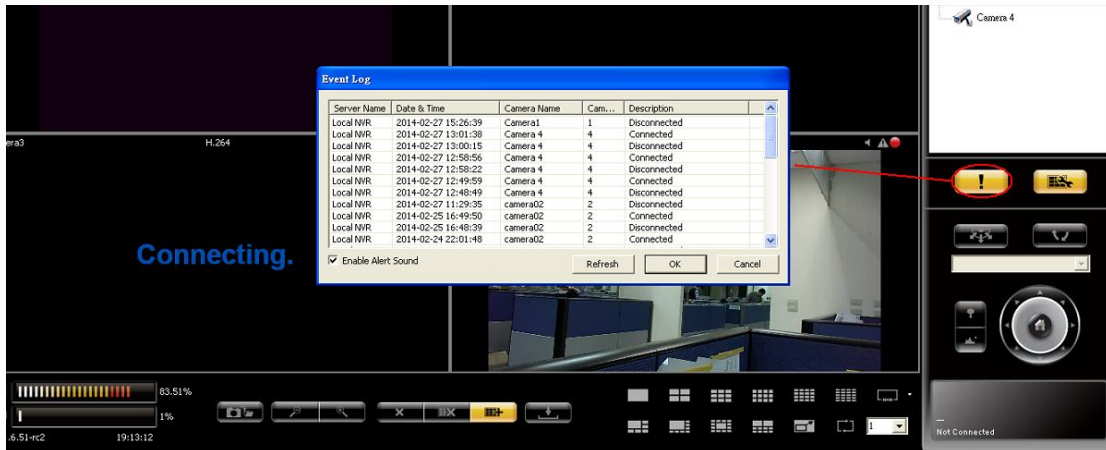
If the IP camera supports PTZ function, user can use the control panel to adjust the viewing angle. The following functions are available depending on the camera models.

Icon	Description
	<p>PTZ panel: PTZ allows users to monitor large areas with a single network camera. Pan, tilt, and zoom functions can be controlled remotely by users. If device supports PTZ control, users can click on the arrows to pan and/ or tilt the camera. The house in the middle can take you back to original monitoring position.</p>
	<p>Preset positions: Select the preset positions which are defined in PTZ camera and the camera will move to the position that user selects.</p>
	<p>Optical zoom in/ out: If camera supports PTZ control, adjust the PTZ camera to zoom out or zoom in.</p>
	<p>Schedule for PTZ: Select "Set" to set camera preset position. It can open the dialog to set how many times PTZ cruise to repeat and how many seconds stay between each preset point.</p> <div data-bbox="552 1442 1142 1637" style="border: 1px solid gray; padding: 5px; margin: 10px auto; width: fit-content;"> <p>Repeat(1~999 times, 1000:infinite): <input type="text" value="1000"/></p> <p>Interval(3~1200 seconds): <input type="text" value="5"/></p> <p style="text-align: right;"> <input type="button" value="OK"/> <input type="button" value="Cancel"/> </p> </div>
	<p>Schedule for PTZ: Click "Go" to start PTZ patrol schedule.</p>

Event Log

Event log is a convenient feature to notify users of **motion detection** at the very first time. When a motion is detected, the icon will start blinking.

By clicking the button, a window will pop up to display the list of event log as below.



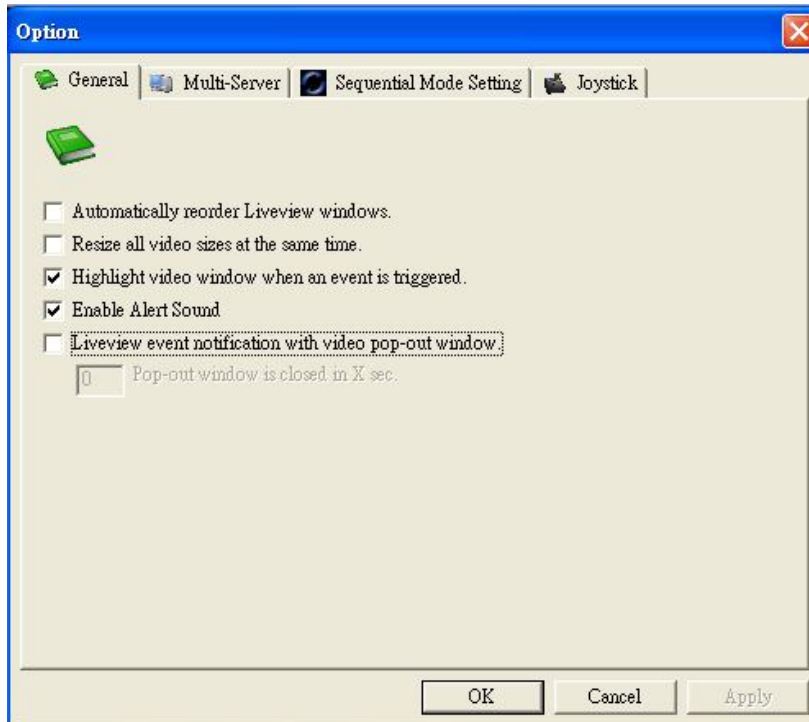
Users can view all detailed list of motion detection in both local display and remote web browser. At the same time, the icon will stop blinking.



Option

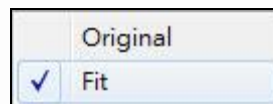
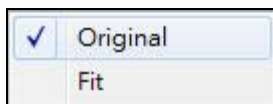
Option button can let users directly to do live-view setting such as warning setting, windows setting and sequential mode setting.

General



Resize all video sizes at the same time

Only a right click on the video, users can set "all" video size either in original size or fit size.



Highlight video window when event is triggered

The option of "Highlight video window when event is triggered" is a warning frame which will pop out on the channel when an event is detected.

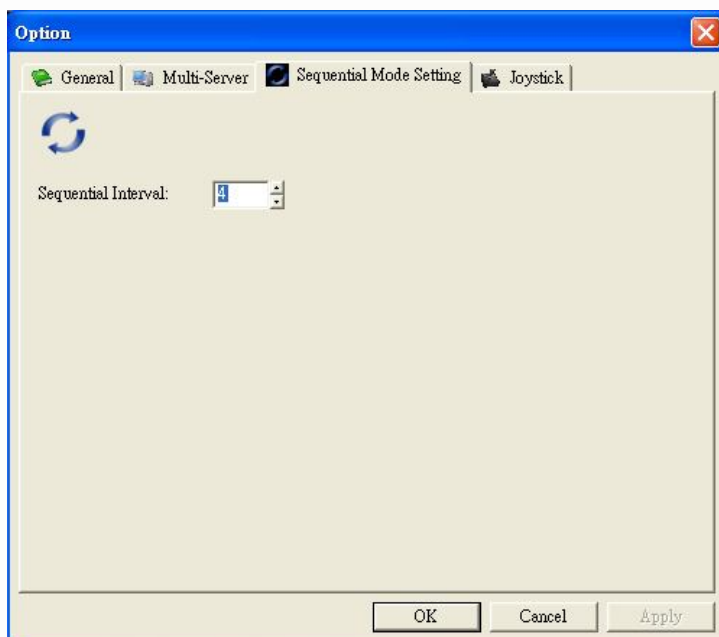


When the motion event is awarded, user can simply click on the channel with mouse, the warning frame will be stopped.



Sequential mode setting

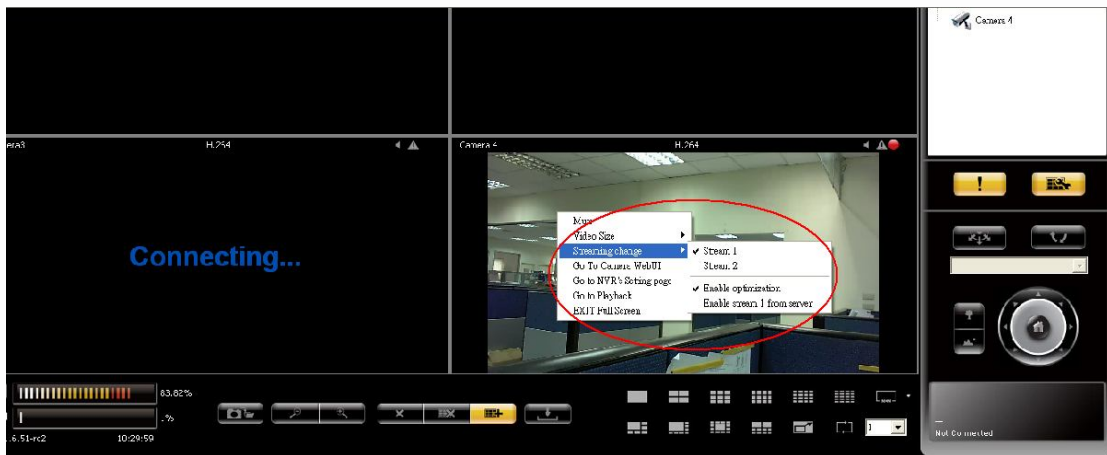
Click sequential interval to set the numbers of user-defined seconds for sequential mode.



Exchange Streaming Type

NVR allows users to setup the dual streaming configurations in camera parameter page if cameras support dual stream. It is suggested stream 1 is set for higher resolution and stream 2 for lower resolution, which helps users to choose the proper streaming in live view with intuitive control.

To switch the different streaming, users can select the channel in live view page and right click the mouse to show the list.



When "Optimization" is enable, streaming type is adjusted automatically in different display modes.

When "Optimization" is disabled, users can manually adjust streaming type, which will be memorized in different display modes.

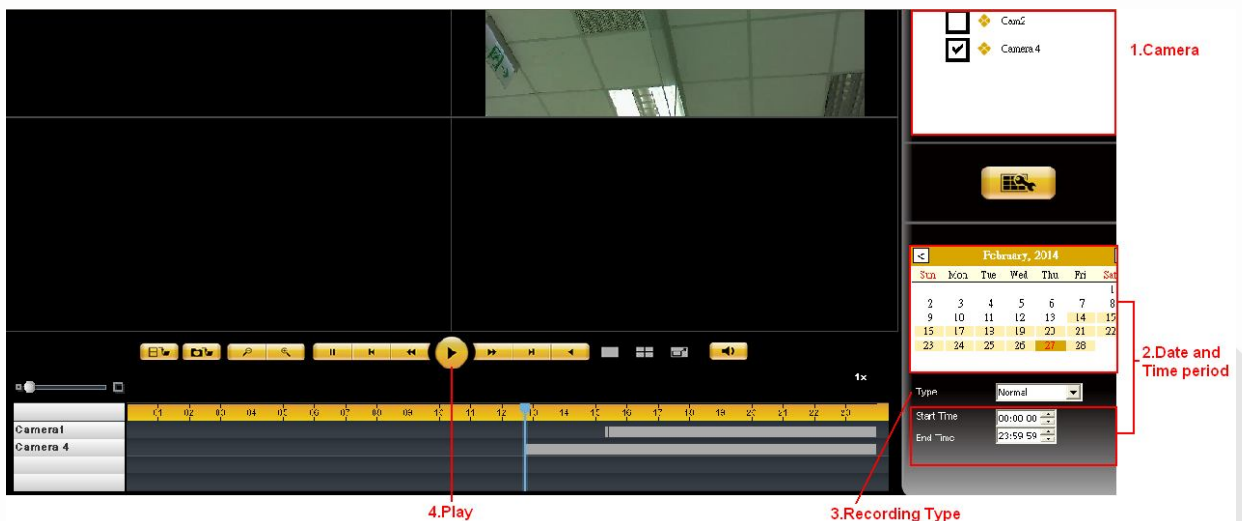
Playback

Playback is a function that allows users to view recorded videos from cameras connected to NVR. NVR offers synchronized playback up to four cameras and easy steps provided to help user sort through the recorded videos quickly.



Steps to Playback Videos

Users can easily search recorded videos by following playback steps. Frame by frame playback and rewind features help users to minimize searching time.

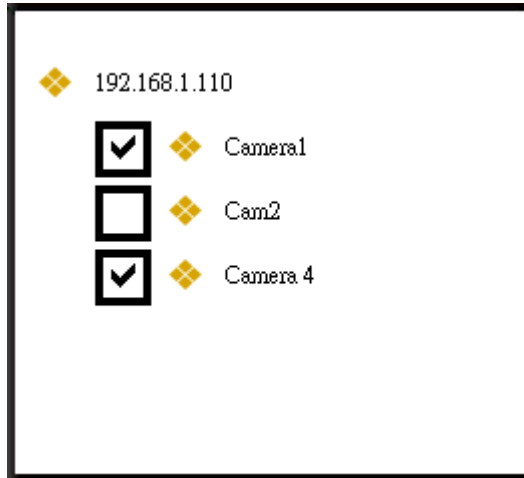


Please follow the following four steps to start playback:

- Select cameras from camera list
- Select date and time period
- Select recording type
- Click "Play"

1. Select cameras from camera list

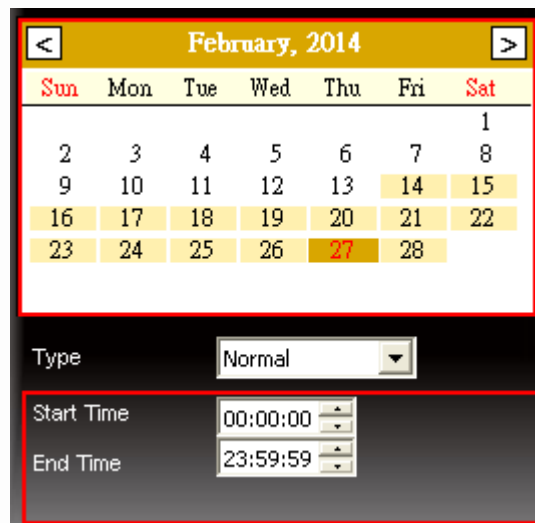
Users can select up to four cameras to play the recorded video.



2. Select date and time

Users can designate the specific date and time to playback video.

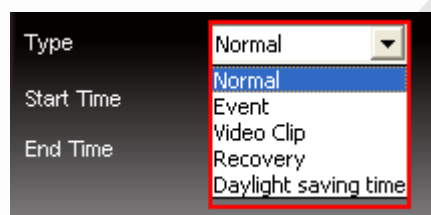
If the selected cameras have recorded videos, the date will be shown in a blue background in default (Normal Record).



Users can select the date from calendar to start playback for a specific day. Or users can set up specific date and time in Start Time and End Time column.

3. Select recording type:

There are five types of recorded videos in different colors: Normal Record , Event , Video Clip ,Recovered File and Daylight Saving time .



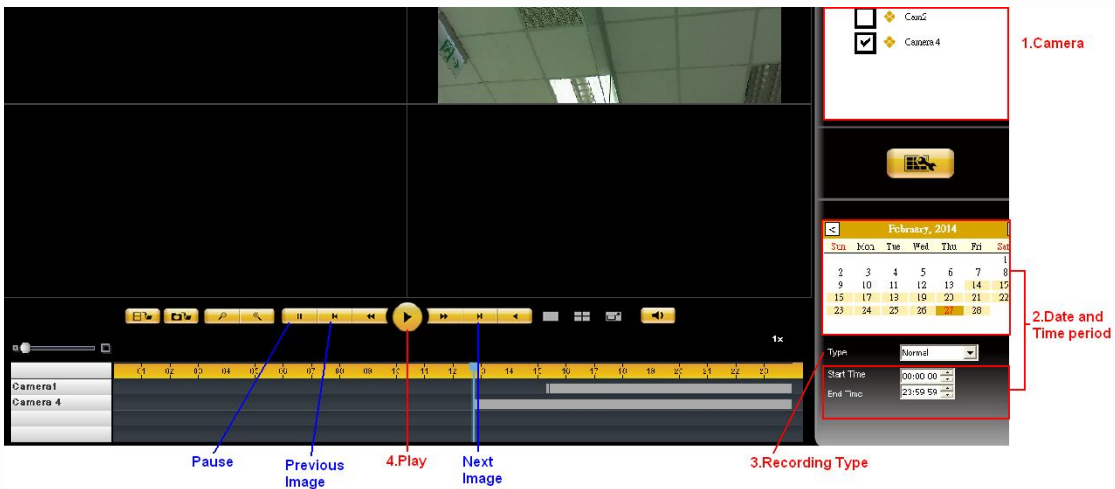
The date will change the color of background when users select different recording type.

4. Click "Play"

Please click play button  to start playback.

Frame by Frame Playback

- 1 Follow above four steps of Playback
- 2 Click "Pause"
- 3 Click "Previous image" or "Next image"

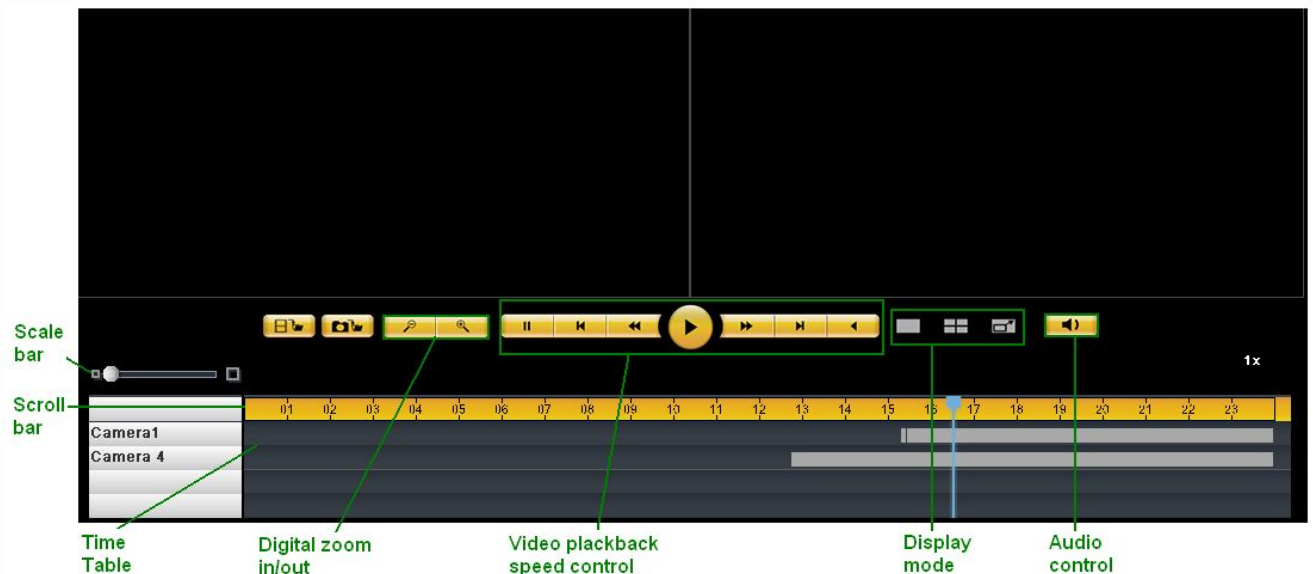


The screenshot shows the Brickcom playback interface. The main area displays a video feed from Camera 4. Below the video is a playback control bar with buttons for Pause, Previous Image, Play, and Next Image. A timeline at the bottom shows the recording duration. On the right side, there is a control panel with a camera selection menu (labeled '1.Camera'), a calendar for February 2014 (labeled '2.Date and Time period'), a recording type dropdown (labeled '3.Recording Type'), and start/end time fields.

Annotations in the image include:

- 1.Camera: Points to the camera selection menu.
- 2.Date and Time period: Points to the calendar and time selection fields.
- 3.Recording Type: Points to the recording type dropdown.
- 4.Play: Points to the play button in the playback control bar.
- Pause: Points to the pause button in the playback control bar.
- Previous Image: Points to the previous image button in the playback control bar.
- Next Image: Points to the next image button in the playback control bar.

Main Functions for Playback



1. Display mode

The screen shows the recording time of each channel in the top of each grid.



Click to view the video in full screen.



One-screen and four-screens are also provided to display playback.

Digital zoom in and digital zoom out

The image can be enlarged by clicking digital zoom-in button.

The image can also return to previous sizes by clicking the digital zoom out button.

Video playback speed control



(1) (2) (3) (4) (5) (6) (7)

Pause: to temporarily stop the playback.

Previous Image: to show the earlier image.

Speed down: to play in slower speeds.

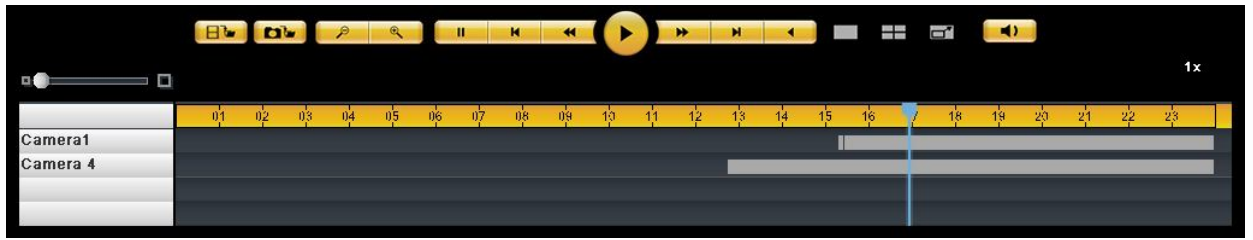
Play: to play video file.

Speed up: When you click “speed up,” the recorded video will play faster.

Next image: to show the next image

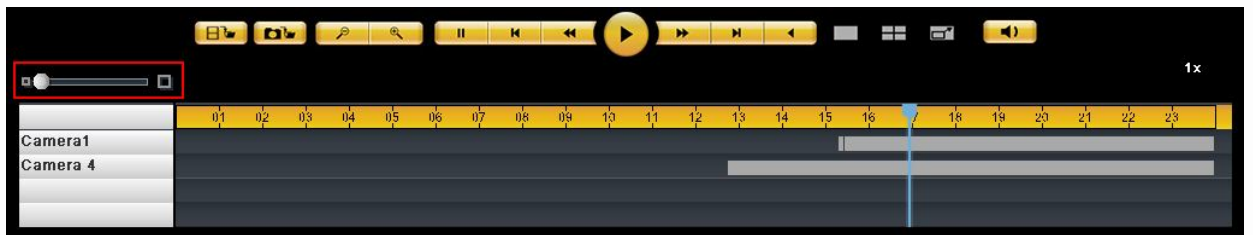
Rewind: to let video automatically wind backward

Playback speed status is beside scroll bar.



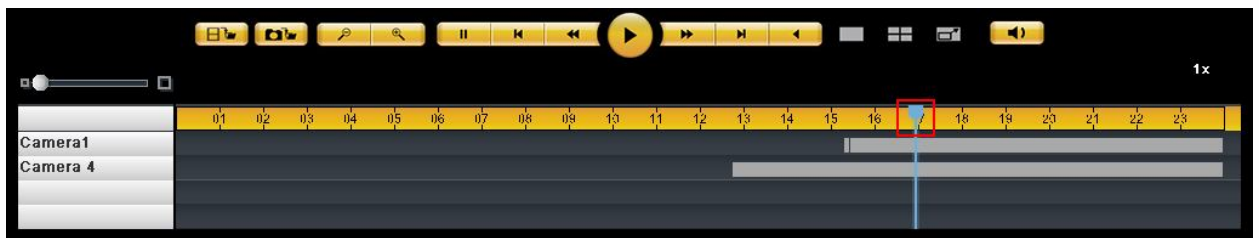
Scale bar

Users can move the bar to enlarge or narrow down the time period to check video files from time table.

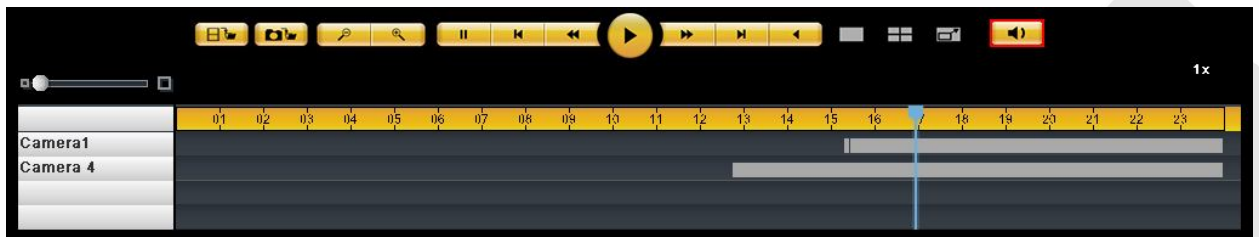


Scroll bar



By moving scroll bar, users can go to the specific recording time directly. Date and time are shown above scroll bar to provide time reference.



Playback Audio

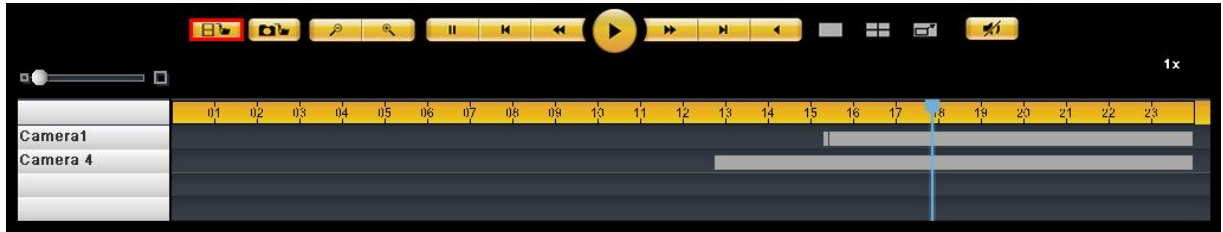


The audio will be played according to the channel selected on the screen.

Icon	Description
	Mute: Disable audio for all playback channels.
	Volume: volume open

Export Files

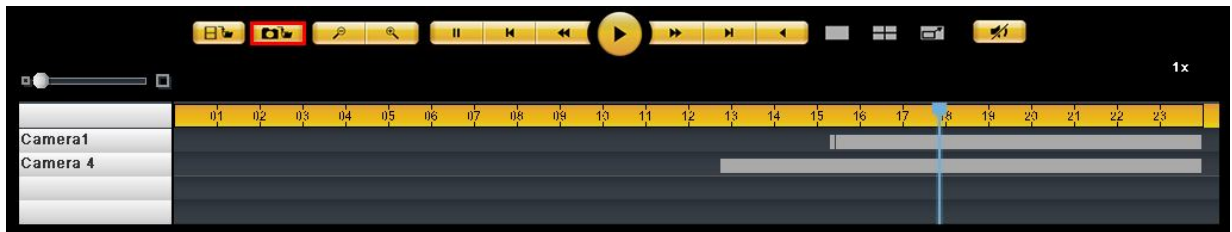
Export function allows users to export file to **USB device** or **USB type DVD burner** directly.



Please select cameras, video file types, date and the time period first, and then click the export button to copy the files.


Snapshot

Users can have the snapshot while having the playback in local display. It needs to plug in **USB device** for the export of snapshot images and it will have 10 sequential images to be saved in the USB dongle.




Others

Screenshot in Local Display

Press "PrtSc Sys"  the image of full screen in local display can be pictured in the NVR HDDs. The image will be saved in the folder "Public", and users can reach the folder from remote web browser.

Users can access the file by the Windows Networking and FTP Service.

 **Note:** To use Windows Networking and FTP Service, please enable both in "**File Sharing Service**" in configuration page.

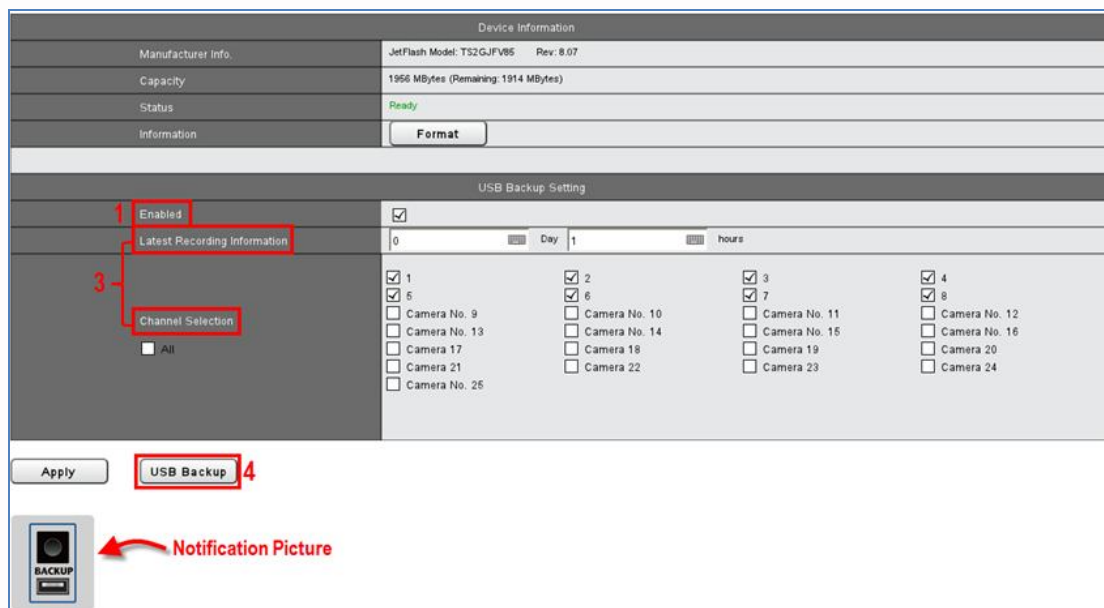
System Upgrade in Local Display

NVR supports system upgrade in local display.

USB Backup by Software USB BACKUP Virtual Button

Users can easily back up recorded video by clicking “**USB Backup**” button in local display user interface. Depending on different requirements, users can insert **USB dongle or USB type DVD burner** to export confidential videos.

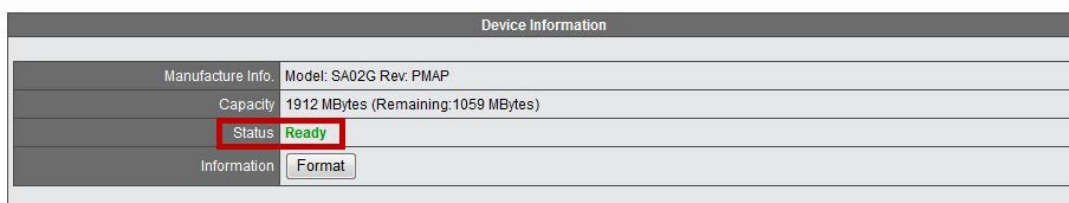
⚠ Note: Once users click “USB Backup” button, NVR will save settings and export videos to your device.



(1) **Enable** USB backup in configuration page: Management > USB Backup

(2) Insert **USB dongle or USB type DVD burner** in USB backup port.

(When USB is ready to begin, the Device Information will show the status “**Ready**” as below.)



(1) Choose **The latest duration of recordings and Channels**.

(The time period to backup is counted from now to previous time.)

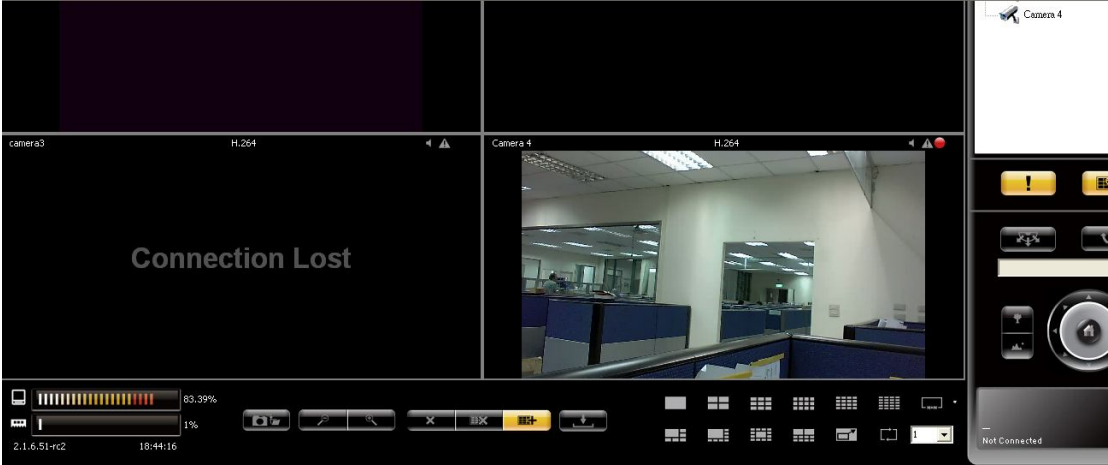
(4) Click “USB backup” button to back up

Use NVR by Remote Web Browser

Users can adopt multiple web browsers (IE/ Chrome/ Firefox/ Opera browser in Windows) to monitor the network camera and view playback.

Live View

After the Quick Configuration is complete, NVR will guide you to live view. Users can view live video stream from IP camera via network and monitor the instantaneous view remotely.

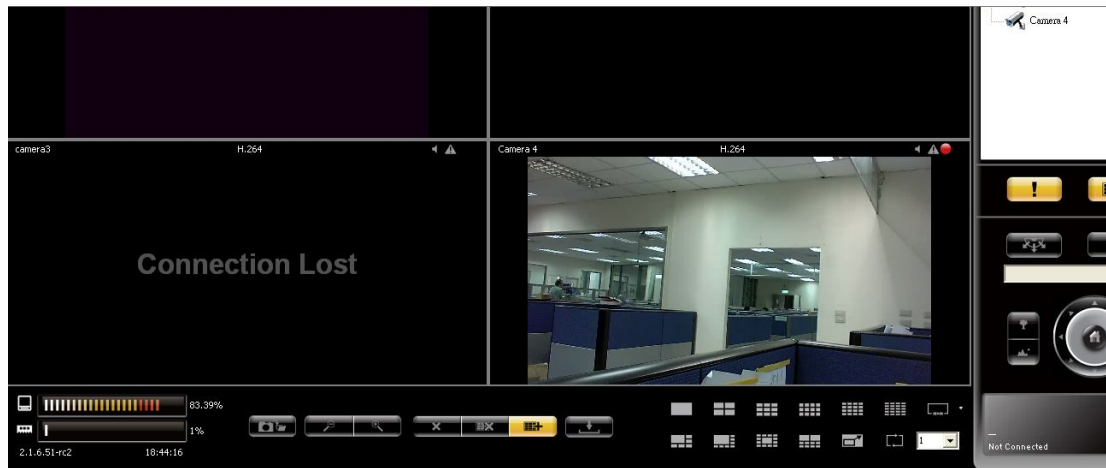


Live view displays the video according to the camera list which has been configured in camera settings of Quick Configuration.





▼ Quick Configuration
> Quick Configuration



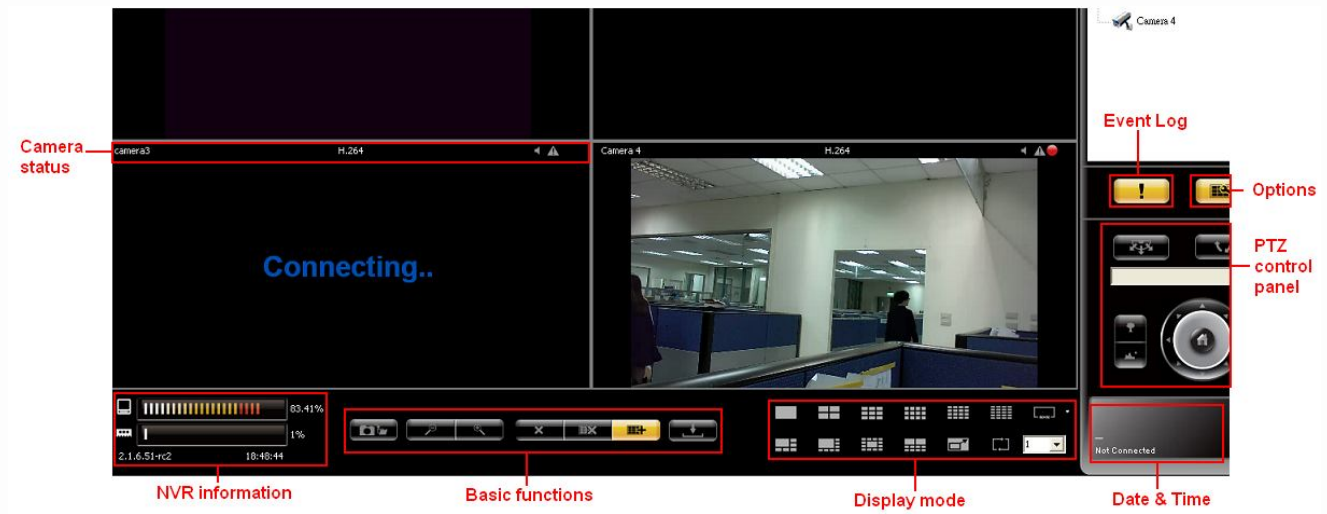
Select View Modes on Live View Page



On top right of live view, users can select four view modes.

Mode	Description
	Live View: Click " Live View " to control the monitoring instantaneously.
	Playback: Click " Playback " to play and to export the recorded video files.
	Configuration: Click " Configuration " to configure camera, recording, event, management, network, quick configuration and system.
	Logout: Click " Logout " to leave NVR.

Main Functions for Live View



Camera status

Icon	Description
	Camera name: The name of the camera is located in the top left corner in each video window. Users can rename the camera via the path "Configuration->IP Camera->Camera Settings."
	Video compression format: M-JPEG/MPEG-4/H.264
	Audio: Once camera supports audio, NVR shows audio in blue. Vice versa, DIGISTOR shows audio in grey.
	Event: When event happens, NVR shows warning to user for instant alert.
	Recording status: The window shows whether camera is recording or not.
	Blue border: The outline border surrounds the selected window to highlight the focus image.

NVR information

Firmware version

User can easily find out the firmware version in the live view page.

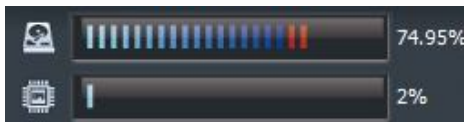


Disk and CPU loading indicator:

Users can find out Disk and CPU loading directly without entering configuration page.




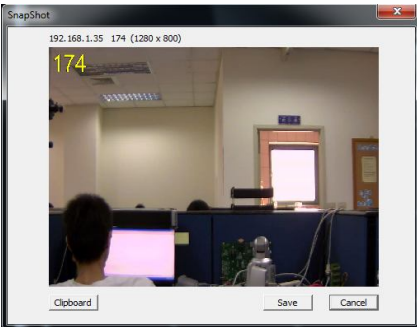
Disk and CPU loading indicator shows blue when loading is 70% or under, and shows red as a warning when it reaches more than 70%.





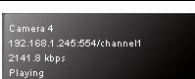


With changing the video configuration, like resolution, FPS and video quality or changing RAID type, can influence the CPU loading, and users can easily find the best balance in NVR.


Basic function:

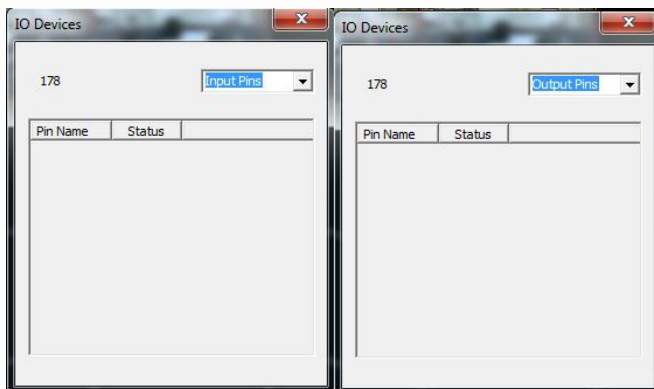
The function of each button will be briefly described below:

Icon	Description
	<p>Snapshot: Click on the "Snapshot" to save snapshots. Then, a window will pop up to display the image.</p>  <p>There are three functions for snapshot: Clipboard:</p>

	<p>Copy the image to device's temporary memory. User can paste image to graphics painting program such as Paint for advanced editing.</p> <p>Save: Save image to default path.</p> <p>Cancel: Cancel snapshot.</p>
	<p>Digital zoom in/ out: Select a channel to enable digital zoom function</p>
	<p>Drop: Drop the camera from monitoring.</p>
	<p>Drop all: Drop all cameras from monitoring.</p>
	<p>Add all: Add all cameras from monitoring.</p>
	<p>Camera information: Consist of Camera Name, IP address, bit rate, and status.</p>

Remote IO:

Click  to check camera DI/DO control for its input pins and output pins.














When camera does not support DI/DO feature, a window will pop up as below.



Display mode





NVR supports multi-display modes for monitoring. Click the icon of display mode to monitor live view. When you click a display mode, the mode icons will turn into blue.


Icon	Description
	Full Screen
	One screen
	Four screen
	Nine screen
	screen
	screen
	screen
	screen
	/30/ 36/49 screen
	5+1 screen
	7+1 screen

	12+1 screen
	<p>Sequential mode</p> <div style="text-align: right; margin-right: 20px;">  1 2 3 4 </div> <p>Click  to choose the page of liveview. In option,</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <p>Users can set sequential interval in user-defined seconds for display mode.</p> </div>

PTZ Control Panel

If IP camera supports PTZ function, users can use the control panel to adjust the viewing angle. The following functions are available depending on the camera models.

Icon	Description
	<p>PTZ panel: PTZ allows users to monitor large areas with a single network camera. Pan, tilt, and zoom functions can be controlled remotely by users. If device supports PTZ control, users can click on the arrows to pan and/or tilt the camera. The house in the middle can take users back to original monitoring position.</p>
	<p>Preset positions: Select the preset positions which are defined in PTZ camera and the camera will move to the position that user selects.</p>
	<p>Optical zoom in/out: If camera supports PTZ control, users can adjust the PTZ camera to zoom out or zoom in.</p>
	<p>Schedule for PTZ: Select "Set" to set camera preset position. (reserved) It can open the dialog to set how many times PTZ cruise</p>

	<p>to repeat and how many seconds stay between each preset point</p> <div data-bbox="523 309 1114 504" style="border: 1px solid black; padding: 5px;"> <p>Repeat(1~999 times, 1000:infinite): <input type="text" value="1000"/></p> <p>Interval(3~1200 seconds): <input type="text" value="5"/></p> <p style="text-align: right;"> <input type="button" value="OK"/> <input type="button" value="Cancel"/> </p> </div>
	<p>Schedule for PTZ: Click "Go" to start PTZ patrol schedule.</p>

Event log: 

Event log is a convenient feature to notify users of **motion detection** at the very


first time. When a motion is detected, the icon will start blinking. 

By clicking the button, a window will pop up to display the list of event log as below. Users can easily read detailed information from the window.

Event Log

Server Name	Date & Time	Camera Name	Camera No.	Description
Local NVR	2013-11-22 16:31:25	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:30:35	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:29:17	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:28:10	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:27:31	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:27:00	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:26:28	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:25:57	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:25:22	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:24:51	Cam5	5	Motion Detection

Enable Alert Sound

At the same time, the icon will stop blinking. 

Enable Alert sound


Event Log

Server Name	Date & Time	Camera Name	Camera No.	Description
Local NVR	2013-11-22 16:31:25	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:30:35	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:29:17	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:28:10	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:27:31	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:27:00	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:26:28	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:25:57	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:25:22	Cam5	5	Motion Detection
Local NVR	2013-11-22 16:24:51	Cam5	5	Motion Detection

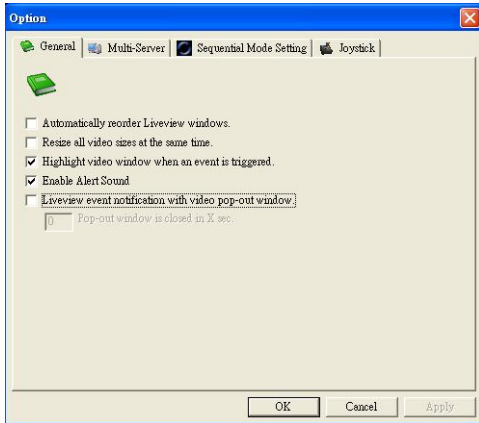
Enable Alert Sound

If users enable the function, the remote web browser will sound the alarm to

notify users when motion detection is triggered.
 (Alert sound can also be set in Option>General.)

Option: 

General:



Dynamic sort:

Users can use dynamic sort to rearrange video in order without blank grid after dropping video from live-view.

Resize all video sizes at the same time

Only a right click on the video, users can set "all" video size either in original size or fit size.



Highlight video window when event is triggered

The option of "Highlight video window when event is triggered" is a warning frame which will pop out on the channel when an event is detected.



When the motion event is awarded, user can simply click on the channel with mouse, the warning frame will be stopped.

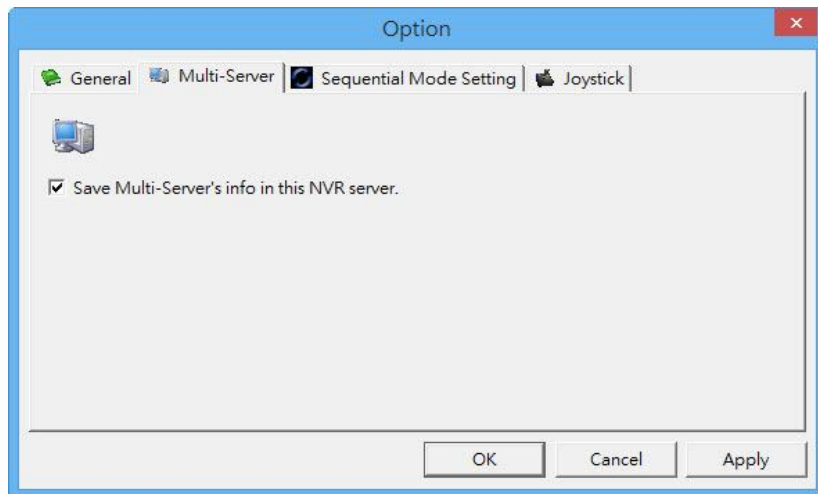


Enable Alert sound

If users enable the function, the remote web browser will sound the alarm to notify users when motion detection is triggered.

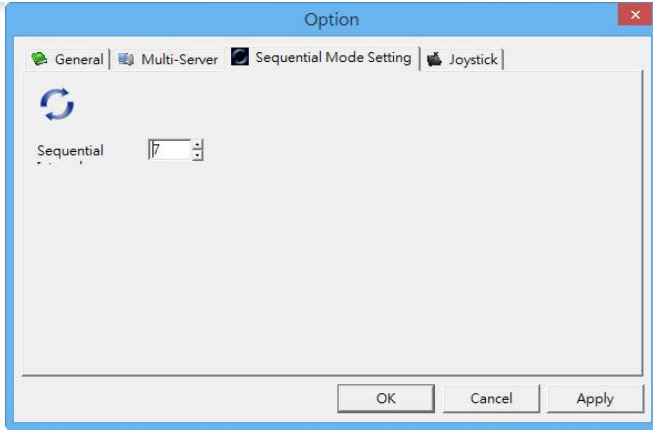
Multi-Server:

Users can save the camera list of multi-server in live-view page.



Sequential Mode Setting:

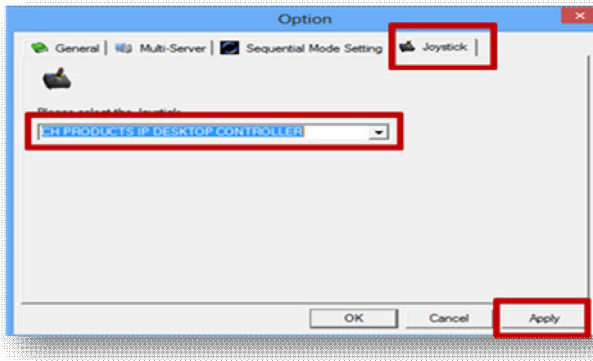
Click sequential interval to set the numbers of user-defined seconds for sequential mode.



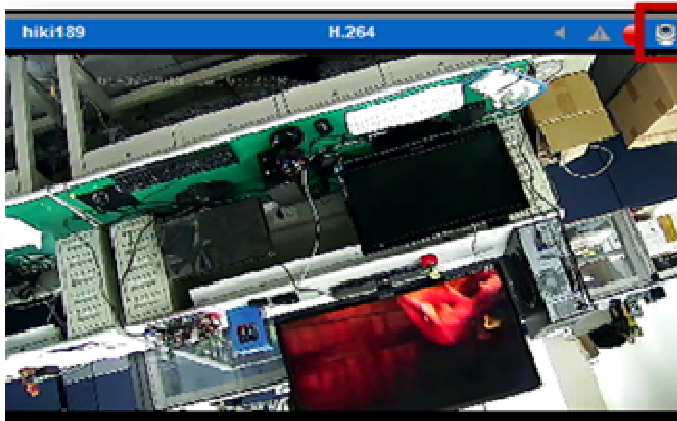
Joystick

Users are able to manipulate PTZ camera with USB joystick.

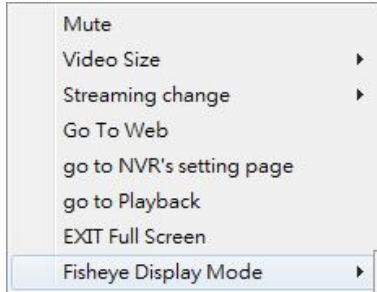
Choose the joystick column and select joystick model then press "Apply"



Joystick can work on PTZ cameras as the status bar is with PTZ icon.

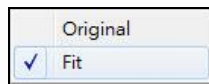
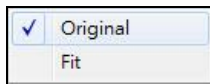


Right Click Functions on Video Window



Mute: To mute the audio of the video

Video Size: Original or Fit

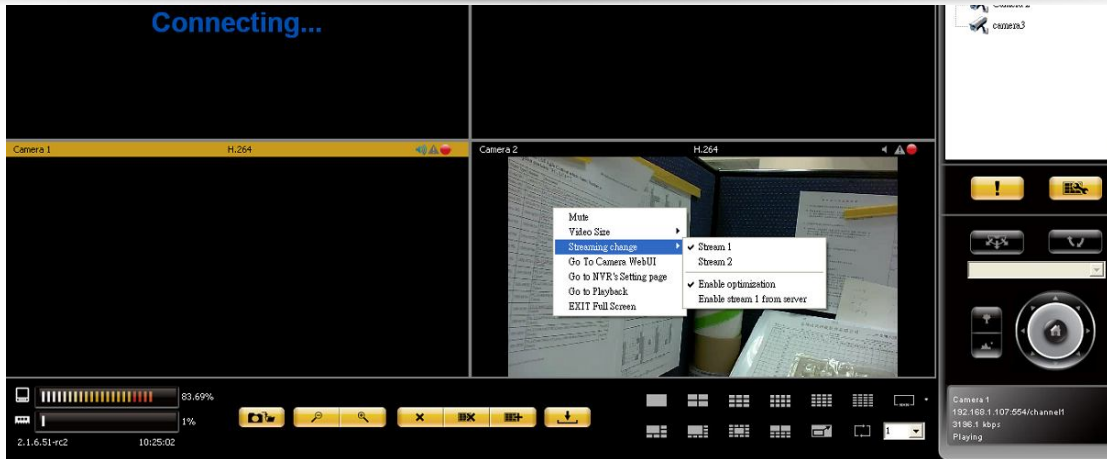


Streaming change: To exchange the streaming resource.

Exchange Streaming

NVR allows users to setup the dual streaming configurations in **cameras parameters** page if cameras support dual stream. It is suggested stream 1 is set for higher resolution and stream 2 for lower, which helps users to choose the proper streaming in live view with intuitive control.

To switch different streaming, users can select the channel in the live view page and right click the mouse to show the list.

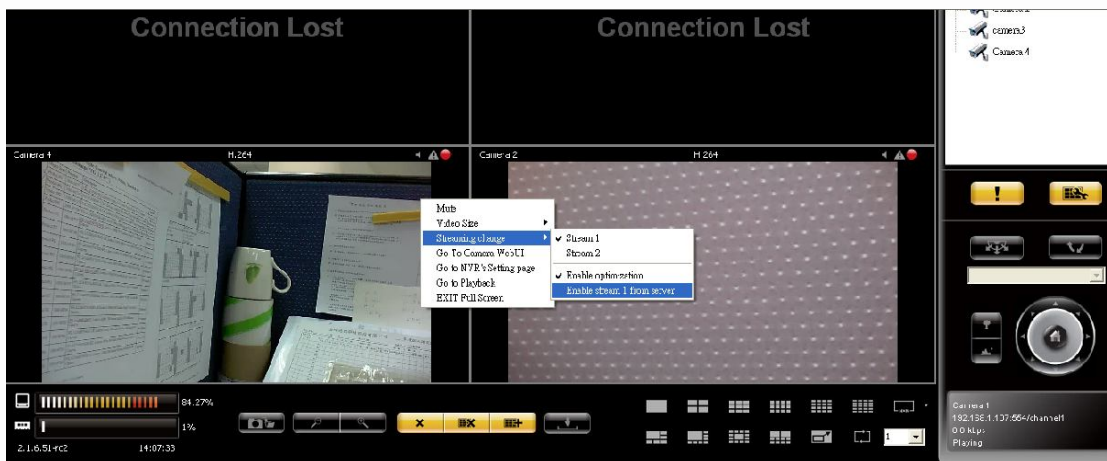



When "Optimize" is enable, streaming type will be adjusted automatically for different display modes.

When "Optimize" is disabled, users can manually adjust streaming type, which will be memorized in different display modes.

Stream from Server

In case that NVR performance is violated by camera limitation, stream from server is an optional choice for users to view video images. It is highly recommend to use **"Enable Optimization"** to perform real-time monitoring



 **Note:** Enable stream 1 from server may influence the efficiency of NVR.

Go To Web: Go to camera configuration page.

Go to NVR's Setting page: To open a new browser to camera configuration page.

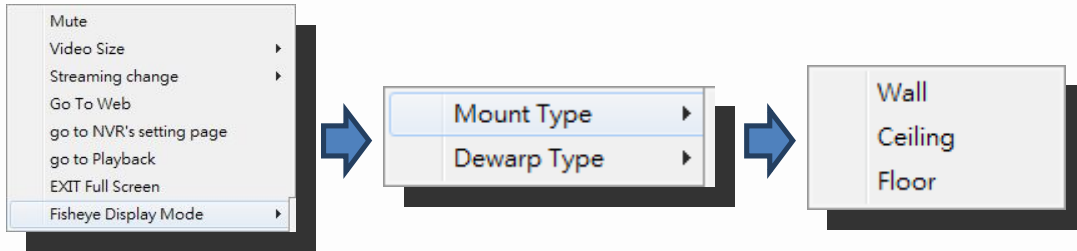
Go to Playback: To open a new browser to Playback.

EXIT Full Screen: To exit full screen

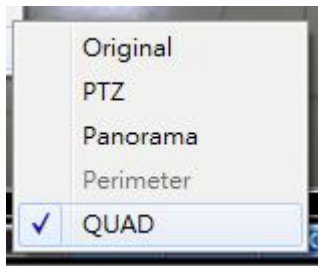
Fisheye Display Mode: To view the best image quality by choosing use the proper engine of fisheye cameras or cameras with Immervision lenses

Dewarp for fisheye cameras

Choose mounting type:

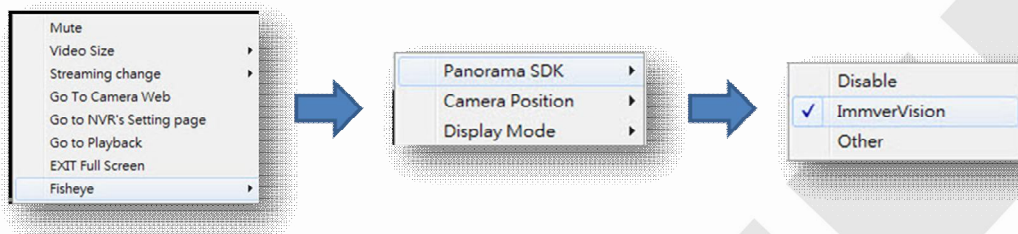


Choose dewarp Type :

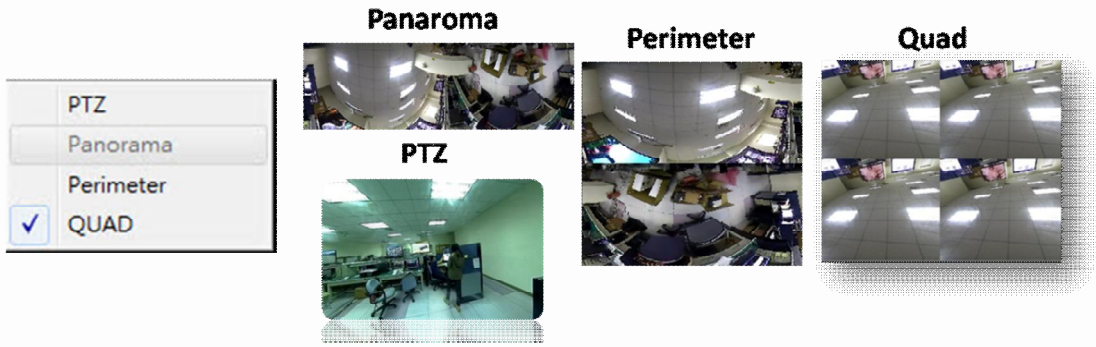


Dewarp for Immervision Lenses

Choose dewarp type:

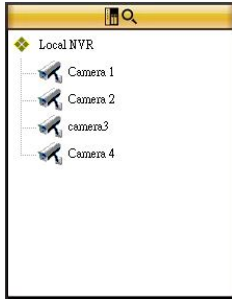


Chosse display mode:

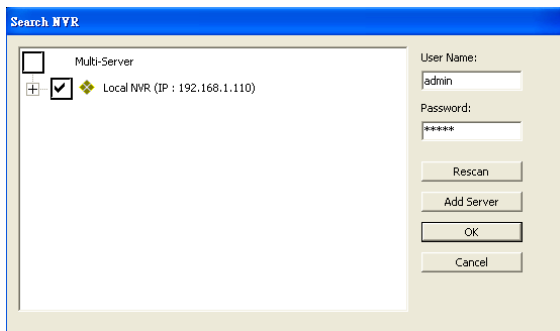


Multi-NVR server

Users can add multi-NVR server by clicking "**Searching NVR.**"



Please insert account and password of the NVR which you are going to add to the local server, and then the NVR which is located in LAN will appear, including the local NVR. Click cameras up to 144 channels to add them into camera list. Click "**Ok**" to add cameras or "**Rescan**" to search for NVR again.



Add Server

With correct IP, port, username and password, then click OK to apply, NVRs can be manually added in WAN or LAN.



The image shows two overlapping windows from the Brickcom NVR software. The top window, titled "Search NVR", contains a tree view with "Multi-Server" (unchecked) and "Local NVR (IP : 192.168.1.110)" (checked). To the right are fields for "User Name:" (admin) and "Password:" (masked with asterisks), along with "Rescan", "Add Server" (highlighted with a red box), "OK", and "Cancel" buttons. The bottom window, titled "Add Server", is highlighted with a red border and contains fields for "Web URL:" (http://), "Port:" (80), "User Name:" (admin), and "Password:" (masked with asterisks), with "OK" and "Cancel" buttons.

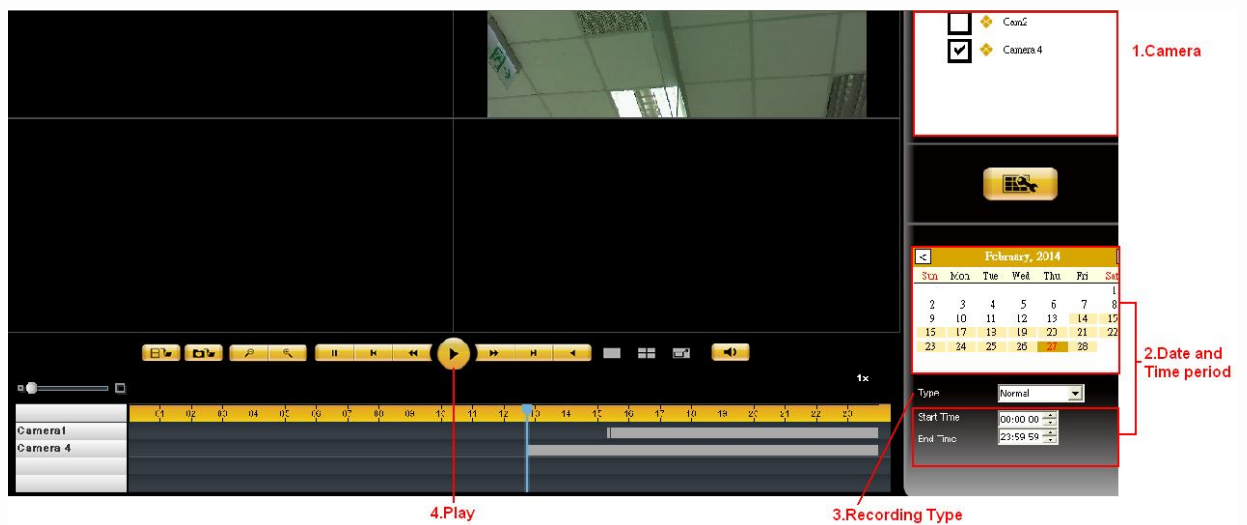



Playback

Playback is a function that allows users to view recorded videos from cameras connected to NVR. NVR offers synchronized playback up to four cameras and easy steps to help users sort through the recorded videos quickly. Playback video can be viewed in full screen; snapshots can be taken and saved during a video playback.

Steps to Playback Videos

Before viewing recorded videos, “Setting”  button is offered to set recorded videos for playback.



- **Setting** : Please click the button to set view settings and file path such as snapshot path and format, AVI path, and OSD setting.



Please follow four steps below to quickly search recorded videos:

Select cameras from camera list

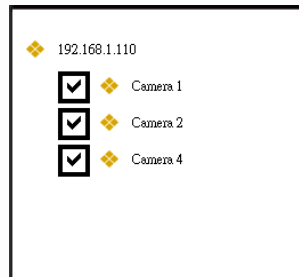
Select date and time period

Select recording type

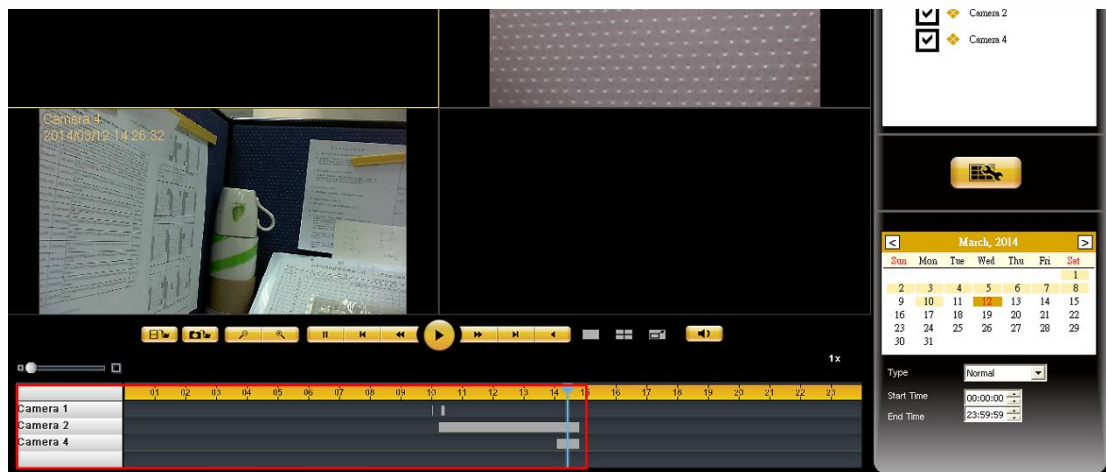
Click "Play"

1. Select cameras from camera list

Please select channel number from channel list to search recorded videos. Up to 4 channels can be selected at the same time.

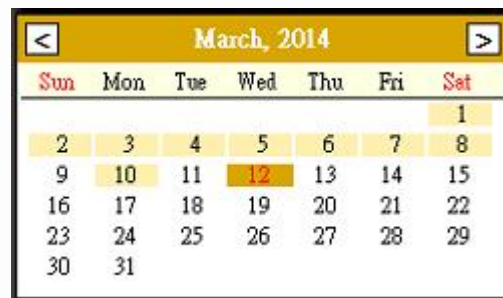


Once the camera is selected, the time line will be shown on time table



2. Select date and time

Please select the date to search recorded videos. The date marked in blue has recorded video.



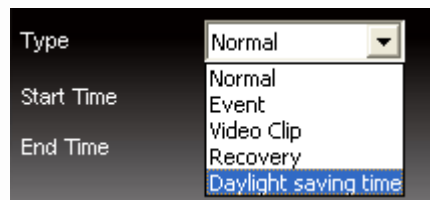
Users can also select specific time period from time searching list (start time to end time.) Start time and end time layout is **Hour: Minute: Second**.



The default time period is from 00:00:00 to 23:59:59.

3. Select recording type

There are five types of recorded videos in different colors: Normal Record , Event , Video Clip ,Recovered File and Daylight Saving time .



With the changing of recording types, time table will present in different color in remote browser.

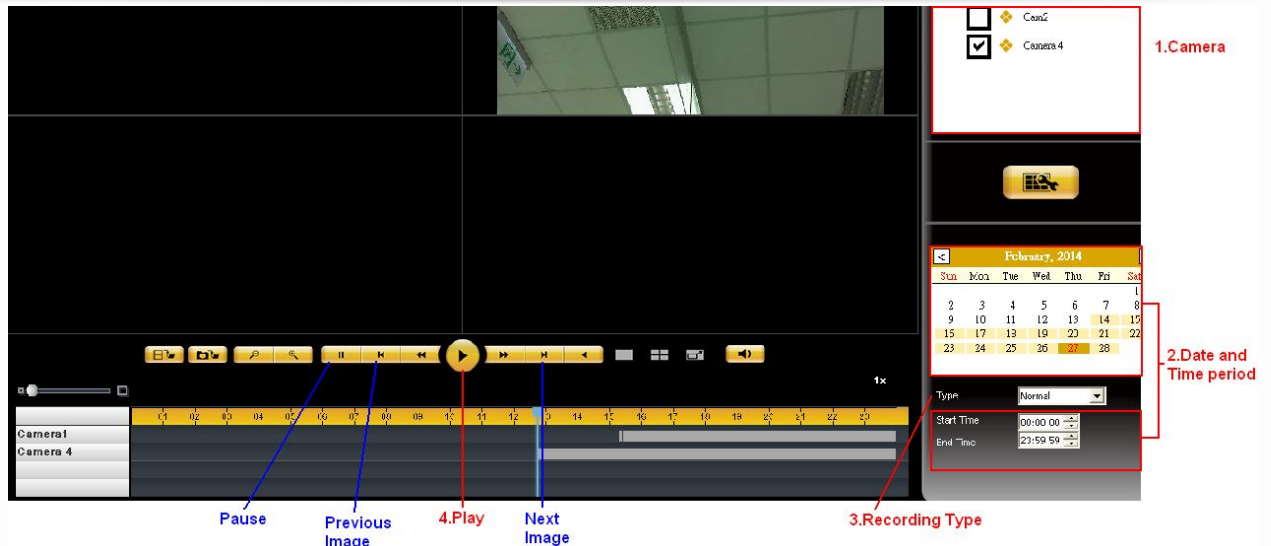


4. Click "Play"

Please click the play button  to start playback.

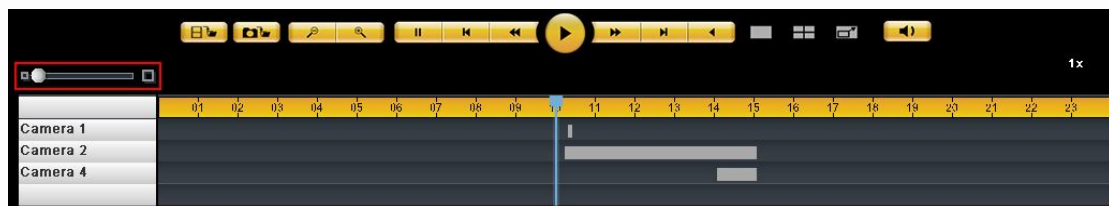
Frame by Frame Playback

- 1 Follow above four steps of Playback
- 2 Click "Pause" button
- 3 Click "Previous image" or "Next image" button



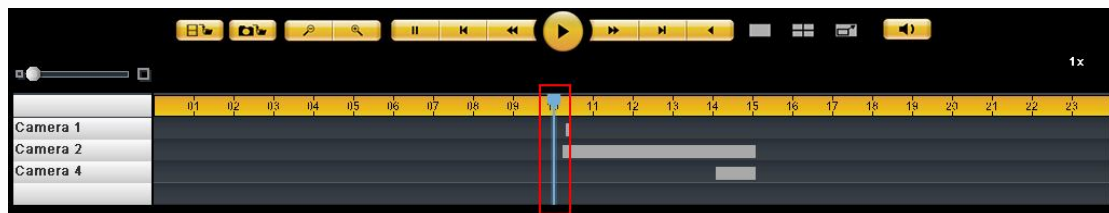
- **Scale bar**

Users can move the bar to enlarge or narrow down the time period to check video files from Time table.



- **Seek bar**

By moving seek bar, users can go to the specific recording time directly. Time is shown above seek bar to provide time reference.



- **Thumbnail in Playback**

With thumbnail function in the playback, users can move the pointer of the mouse to the footage and the snapshot of the specific time will be shown.

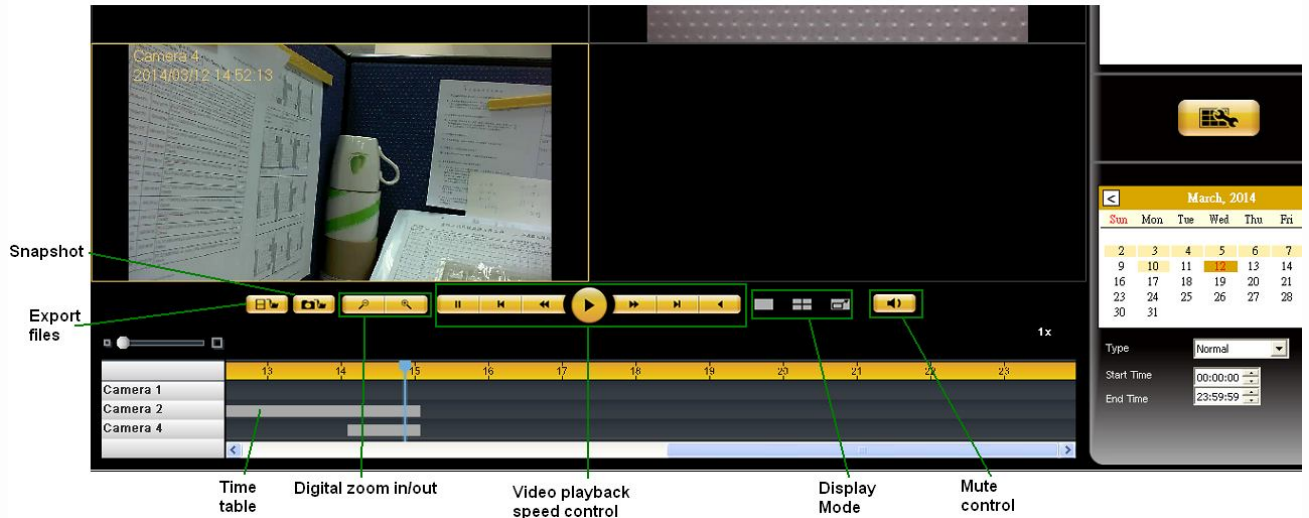
It helps users easier to locate the period of time for play the recording file.

From the thumbnail, users can also read the related information such as date, time and camera name.

The thumbnail will be shown while pointer moves on the footage.






Main Functions for Playback



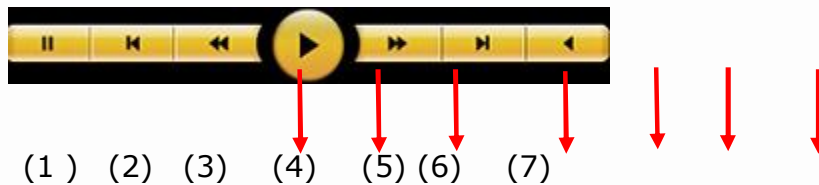
Display mode

The screen shows the recording time of each channel in the top of each grid.

Click  to view the video in full screen.

One-screen  and four-screen  are provided to display playback.

Video playback speed control



Pause: to temporarily stop the playback.

Previous Image: to show the earlier image.

Slow motion: to play in slower speeds.

Play: to play video file.

Speed up: When you click "speed up," the recorded video will play faster.

Next image: to show the next image

Rewind: to let video automatically wind backward

The play speed status is beside display mode.



Mute control


Users can choose whether to play audio when playback videos. The button will change icon appearance while clicking:

Mute :  Sound : 

Digital zoom out and digital zoom in 

The image can also return to previous sizes by clicking the digital zoom out button.

The image can be enlarged by clicking digital zoom-in button.

Snapshot 

Users can save the image of playback by clicking "**Snapshot**".

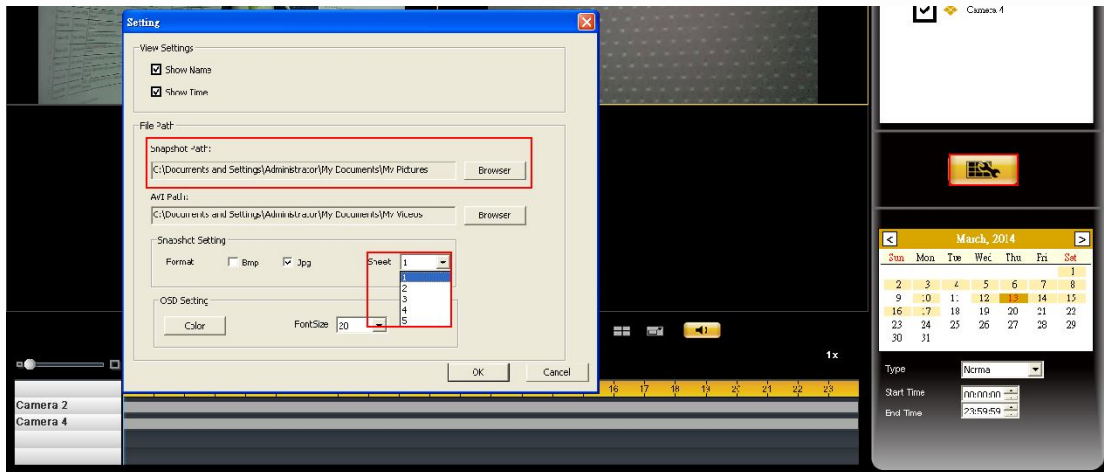
Before taking snapshot from NVR, users are recommended to set snapshot

path  from "**Setting.**"

"

Sequential snapshot in remote playback

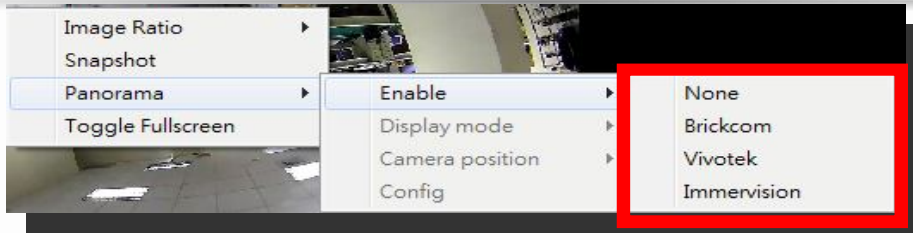
Users can have the sequent images from recording video while in playback, which helps users to catch the key frame in the recording files. It can be setup up to 5 sequential snapshots.



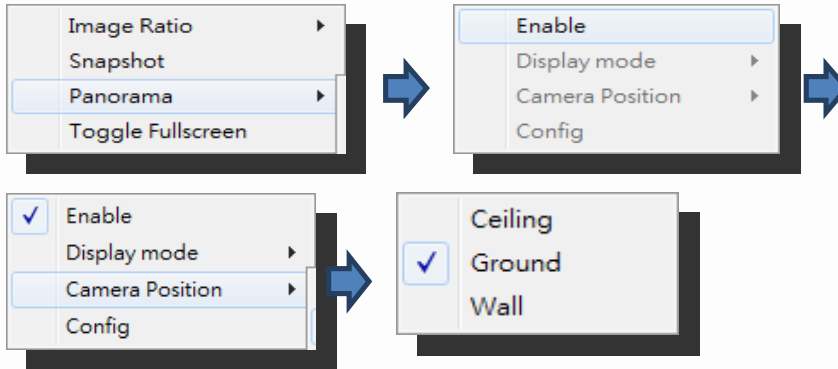
Dewarp for fisheye cameras

By right click on the video, users can choose the proper dewarp engine for fisheye camera.

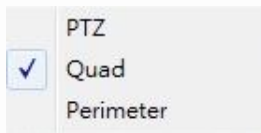
a. Choose the dewarp engine:



b. Choose the mounting type



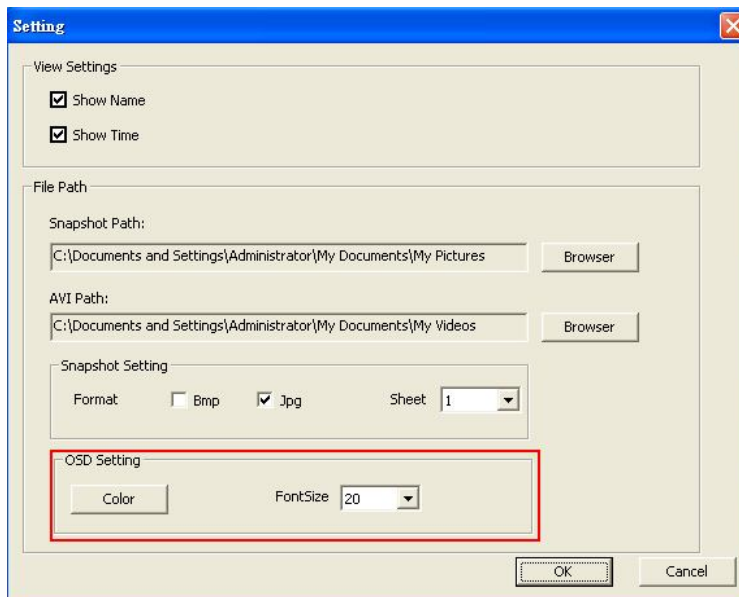
c. Choose the display mode



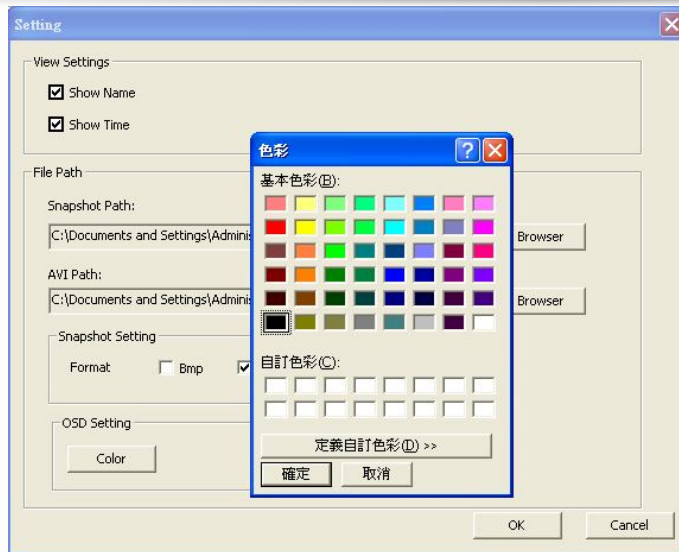
Change OSD color and font size

Users can select different OSD color while having the playback of recording files.

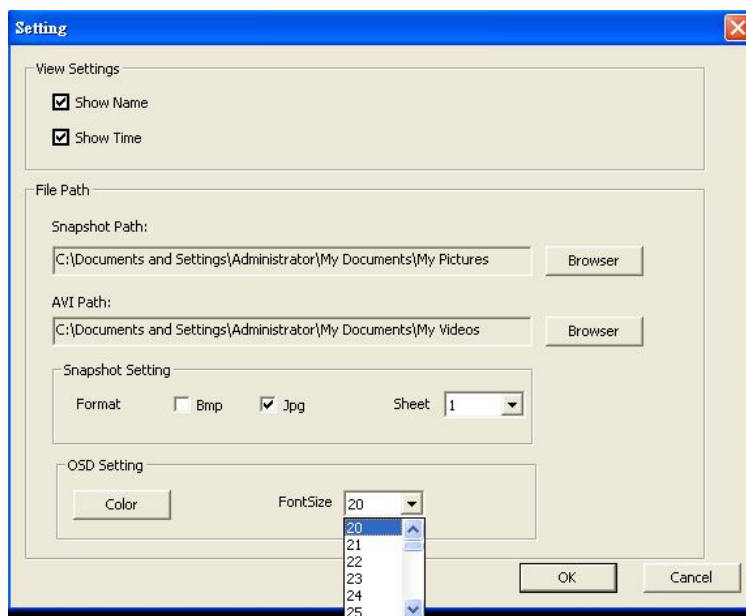
Click "Setting" 



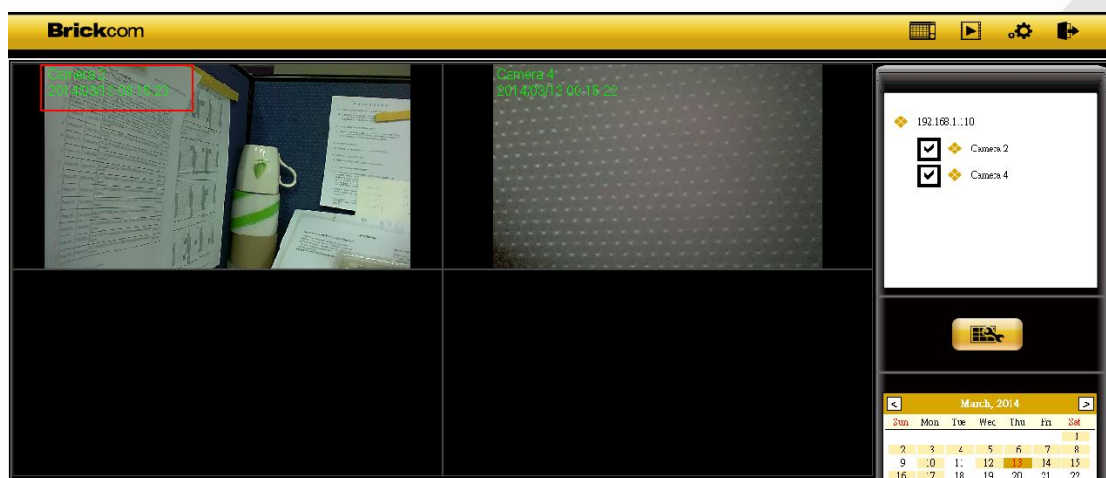
Click OSD "color" setting button the select the OSD color and click "OK"




Select font size and click "OK"




All OSD color will shown as the selection



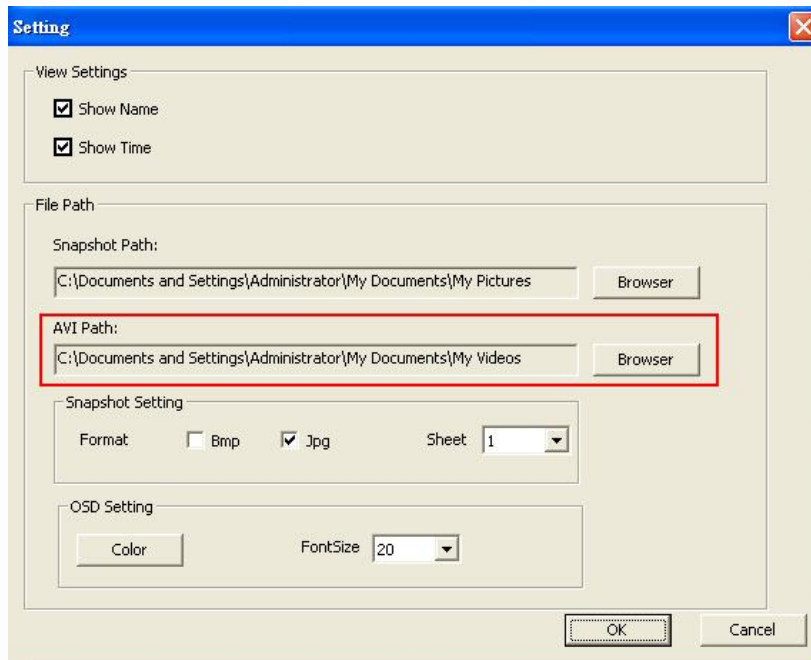
Export Files

Export function  allows users to retrieve recorded files from the server. Before exporting file, users are recommended to set AVI path from

"Setting" button. 

Select the Storage AVI Path

Playback setting page indicate the path where exported files to be saved.



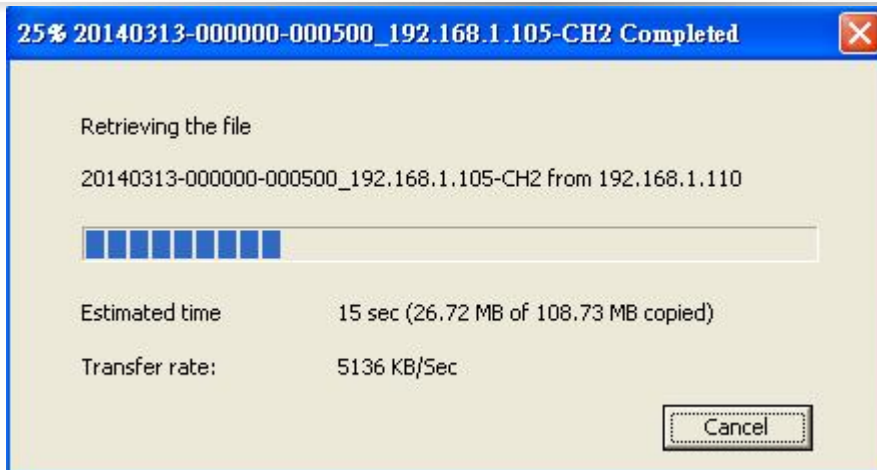
Select cameras and time period

Users can indicate which cameras and what time range is to export the recording file.

Start to export files from the NVR

By pressing the Export button, the process of export will start.

To cancel the transfer.



Users can cancel the files transferred while downloading files from NVR.

Play Video Files

Users can access the video files by Windows Networking and FTP Service.

⚠ Note: To use Windows Networking and FTP Service, please enable both in **"File Sharing Service"** in configuration page.

▼ Disk Management

- > Disk Management
- > Filesystem Management
- > **File Sharing Service**

By using the link button on file sharing service page, users can open the dialog directly after the service is enable.

File Sharing Service

Information

Windows Networking

FTP Service

Service List	Status	Action	Link
Windows Networking	ON	<input type="button" value="Disabled"/>	<input type="button" value="Link"/>
FTP Service	ON	<input type="button" value="Disabled"/>	<input type="button" value="Link"/>

Windows Networking

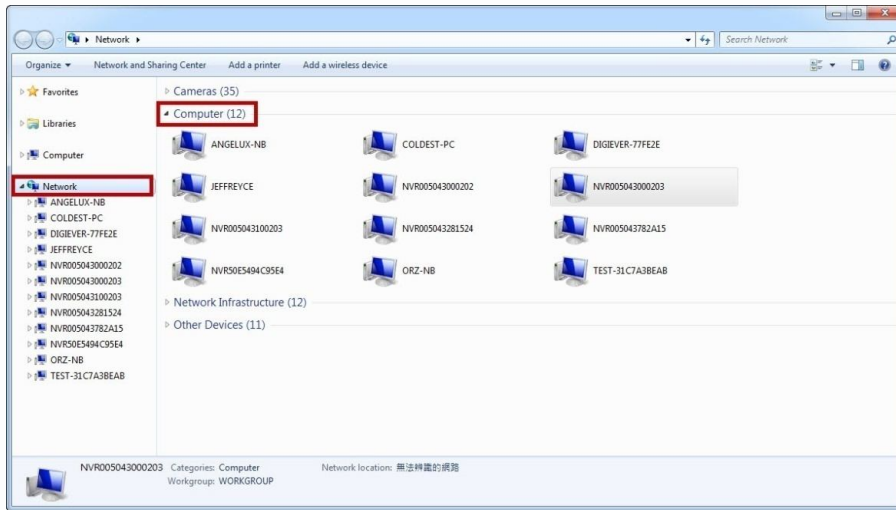
Through Windows Networking, users can search video files via choosing a computer of NVR or entering IP address from Windows Start menu.

Choose a Computer of NVR

Please go to **"Network"** folder and choose NVR. If more than one server

exists in the network, "**Network**" folder will display all servers.

Note: The default **device name** of each connected NVR is from "**Mac Address**" of each NVR, which can be found in configuration page.



To acquire Mac address, users can refer to "**System**" > "**Device Information**" > "**System Information**" in configuration page.

Information	
System	Product Model NVR-4225 Pro
> Device Information	Firmware Version 2.1.6.51-rc2
> System Upgrade	MAC Address 20:10:7a:8f:b5:dc, 20:10:7a:8f:b5:dd
> Language	Operating System Embedded Linux
> Date & Time	OS Version Linux version 3.2.29
> Buzzer	CPU Intel(R) family
> Reboot & Shutdown	Network Adapter Gigabit Ethernet Card 10/100/1000 Mbps
	Locate <input type="button" value="Locate"/>

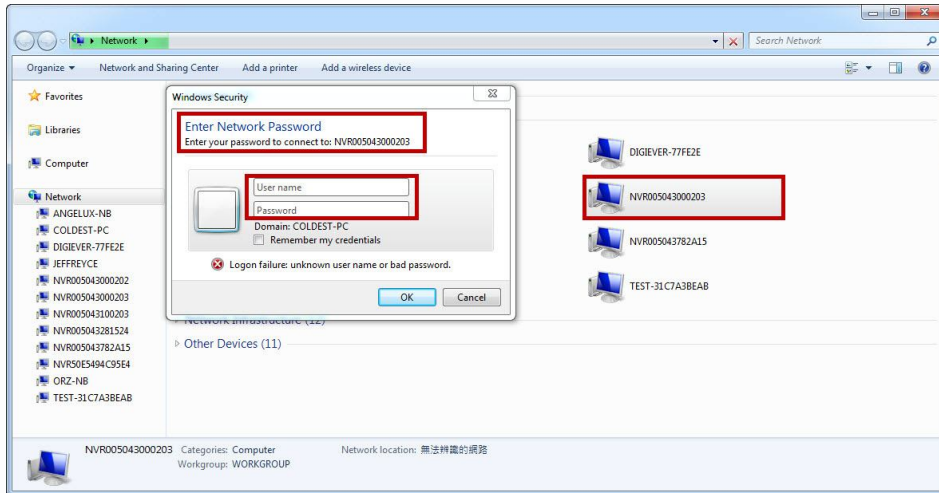
"**Computer Name**" is shown in "**Network**" > "**Network Setup**" > "**Information**" in configuration page.

Network	Computer Name DS201
> Network Setup	IP Address 192.168.1.110
> Network Service	Subnet Mask 255.255.255.0
> DDNS	Default Gateway IP Address 192.168.1.1
	Primary Domain Name Server 192.168.1.1
	Secondary Domain Name Server

For example, the computer name is **DS201**.

Thus, users can select a NVR in Network folder by this computer name.

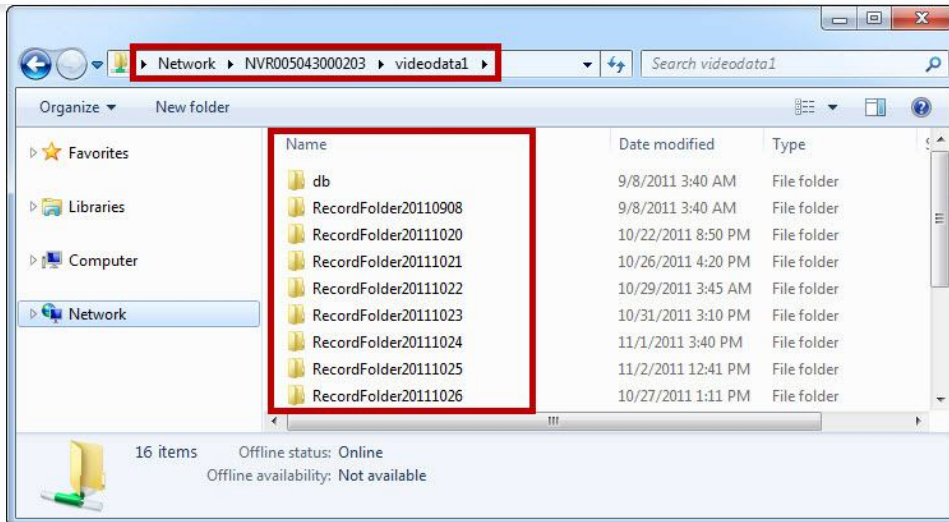
As you select the NVR, a window will pop up and ask to enter network password.



If users don't amend the user name and password, please enter the default ones: "**admin/admin.**"



After users enter accurate user name and password, the NVR will display the folder "**Public**" and "**videodata1.**" Please select "**videodata1**" to check video files.



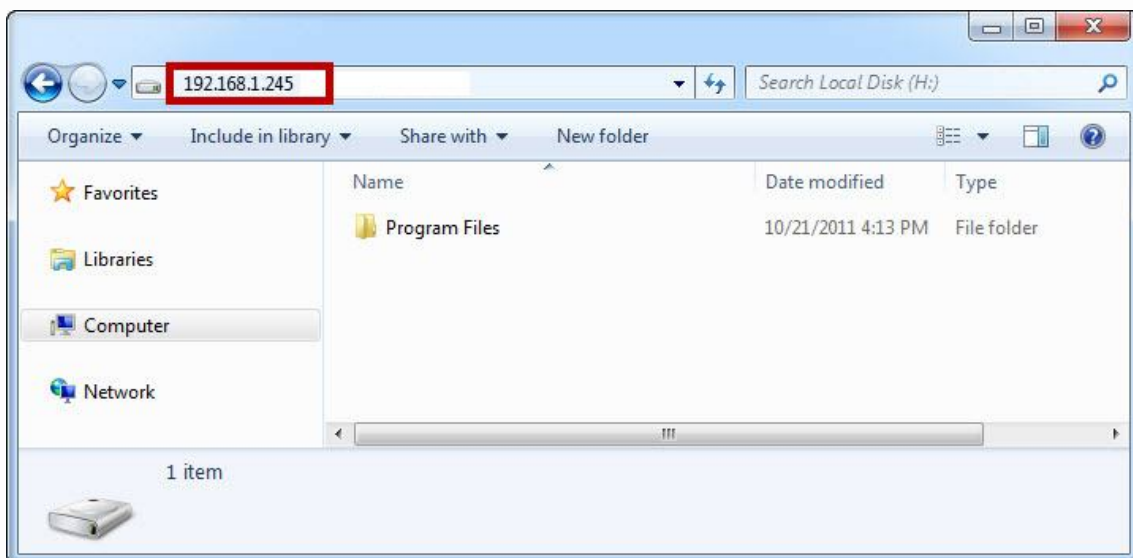
After entering "videodata1," the folder displays RecordFolder chronologically by recording dates. Please select a folder to enter.

All video files lists chronologically by recorded time and video length of each chunk is five minutes.

Select a video file to play.

Enter IP Address to Search

Please enter NVR IP address from the Windows Start menu.

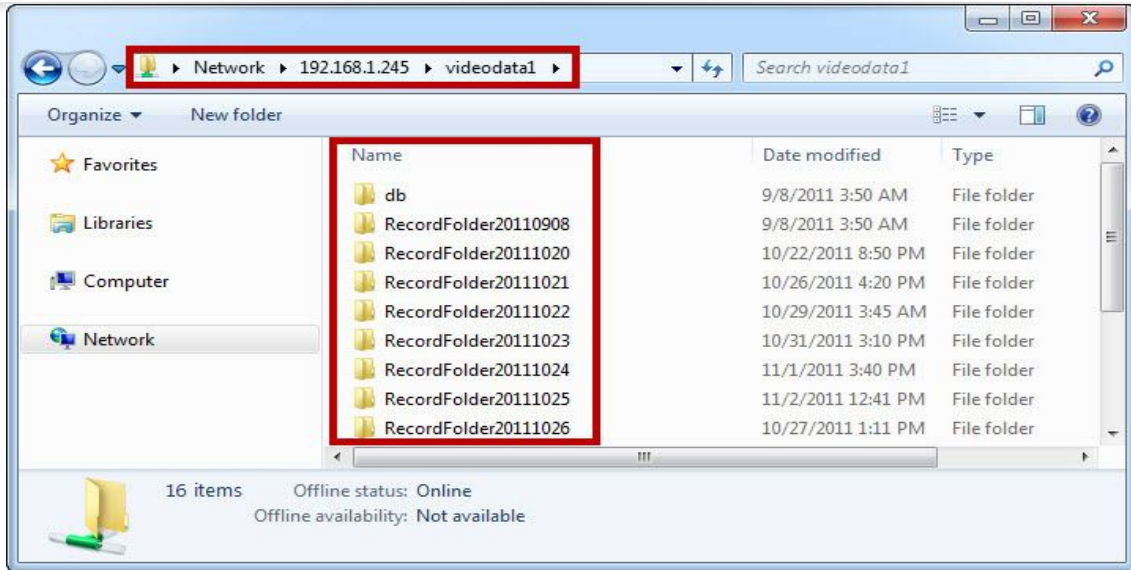




As you enter the IP address, a window will pop up and ask for network password. If users don't amend the user name and password, please enter the default ones: "**admin/admin.**"

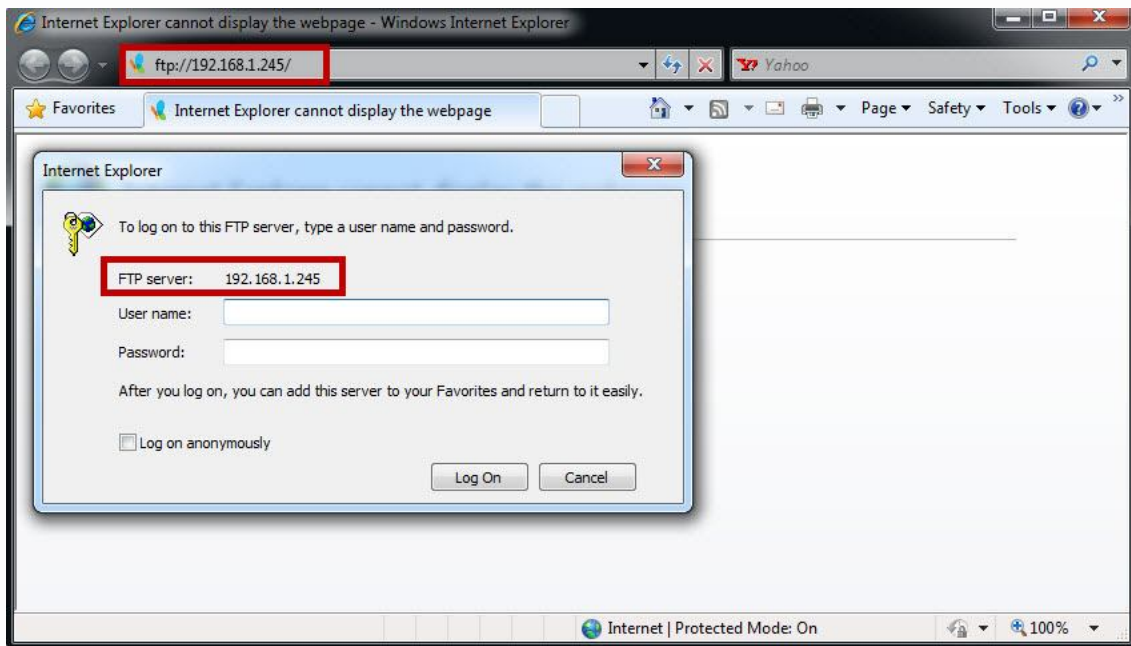
After users enter accurate user name and password, the folder of NVR displays the folder "**videodata1.**" Continuously, select a RecordFolder and a video file to play.



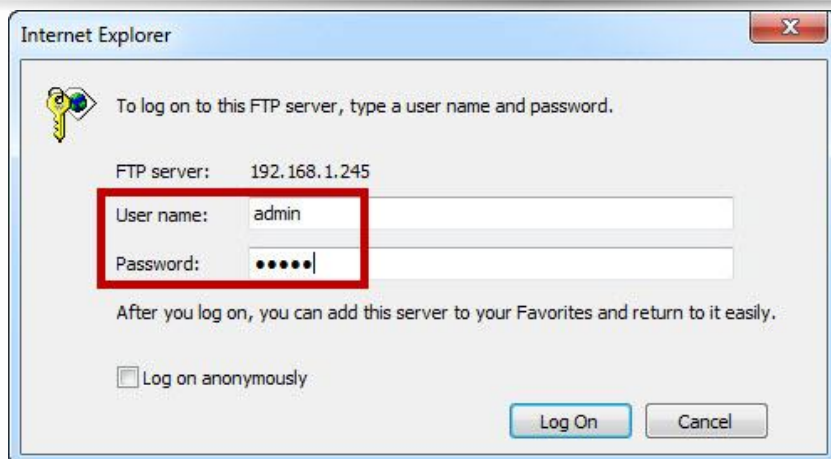


FTP Service

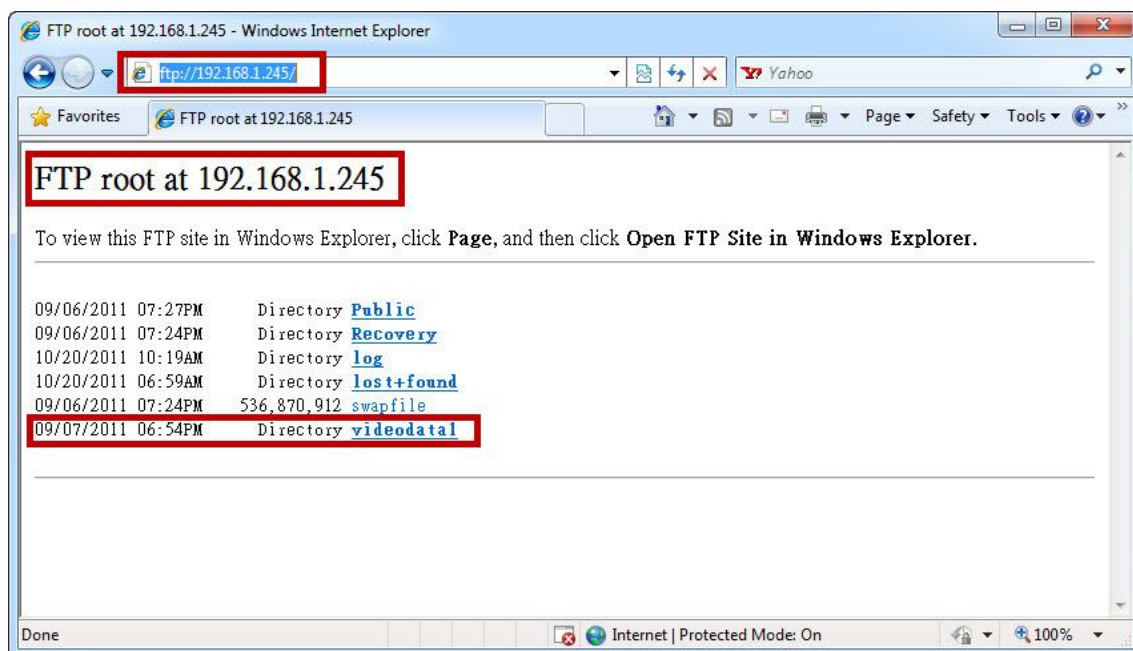
To access FTP service in a web-based interface, please open Windows Internet Explorer and enter NVR IP address which users configure.



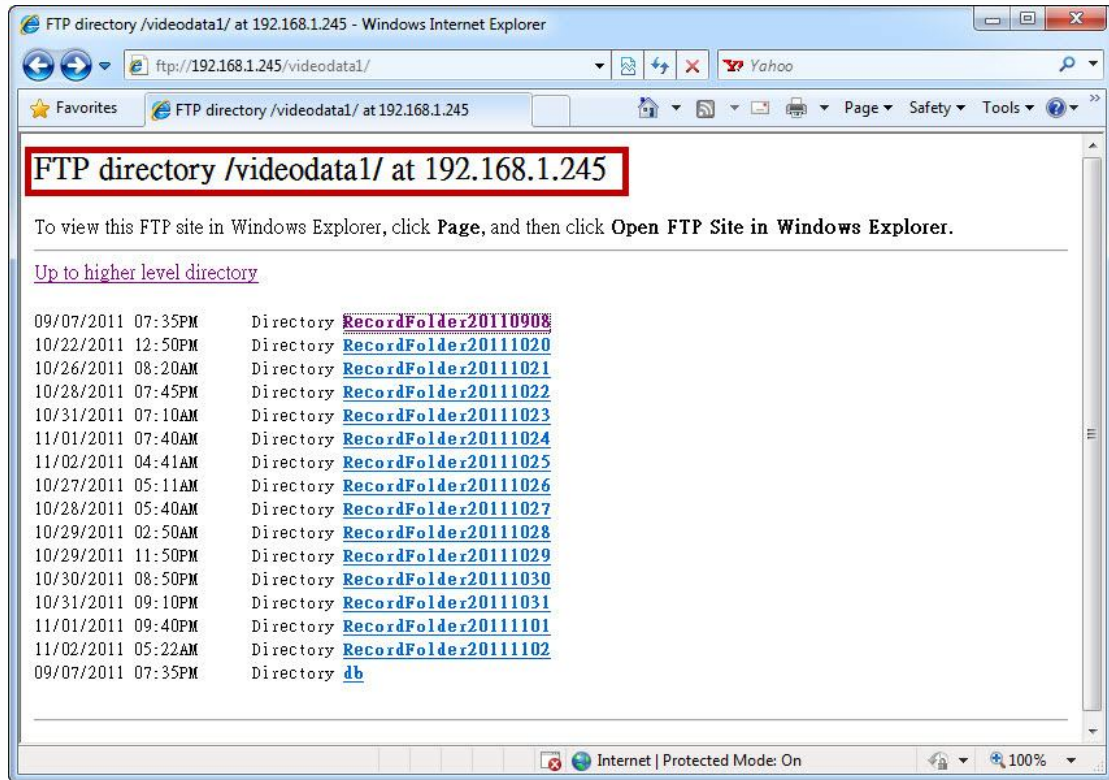
As you enter the IP address, a window will pop up and ask to type a user name and password to log in FTP server. If users don't amend the user name and password, please enter the default ones: "**admin/admin.**"



Please click **"Log On"** to proceed.



IE browser shows the folders on FTP server. Please select folder **"videodata1"**.



The folder displays RecordFolder chronologically by recording dates. Please select a folder to enter.

All video files lists chronologically by recorded time and video length of each chunk is five minutes.

Select a video file to play.



Configuration

In configuration page, users can configure Quick Configuration, IP Camera, Recording & Event, Disk Management, NetworkManagement and System from each drop-down menu.

 **Note:** NVR will automatically log out from configuration page after idle for 10 minutes.

IP Camera

- ▼ IP Camera
 - > Camera Settings
 - > Camera Parameter
 - > Camera Status

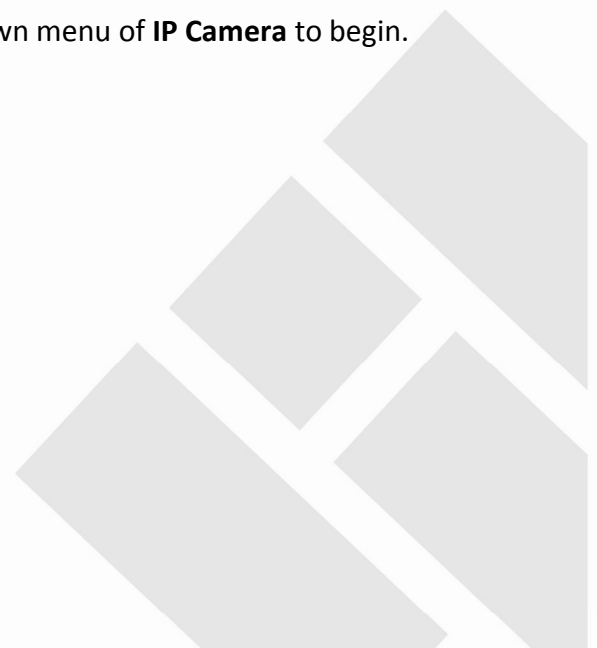
Camera Settings

Please refer to Camera Settings.

Camera Parameter

Please select “Camera Parameter” from the drop-down menu of IP Camera to begin.

- ▼ IP Camera
 - > Camera Settings
 - > Camera Parameter
 - > Camera Status



Camera Parameter

Camera Parameter

Camera Parameter

Camera No.	1	Camera Name	Camera 1
Main Stream (Recording / Live view option 1)			
Video Format	<input type="radio"/> MPEG4 <input checked="" type="radio"/> H264 <input type="radio"/> MJPEG		
Resolution	0		
Frame Rate	0 fps		
Video Quality	<input type="radio"/> VBR <input checked="" type="radio"/> CBR		
Enable Audio Recording	<input checked="" type="checkbox"/>		Enable Mobile Snapshot <input type="checkbox"/>

Camera List

No.	Camera Name	IP Address	Vendor	Model	Original Web
1	Camera 1	192.168.1.107	Auto	C1100	Go to Web
2	Camera 2	192.168.1.105	Auto	C1100-W	Go to Web
3	camera3	192.168.1.108	Brickcom Corporation	FB-130Np	Go to Web
4	Camera 4	192.168.1.106	Auto	C1100-W	Go to Web

NVR supports multi-stream for monitoring and recording. Users can modify camera's configuration such as video format, frame rate, resolution, video quality, audio enable and stream target via NVR in this page.

There are two parts in this section: **Parameter** and **Camera List**.

Please select a camera in **Camera List** first.

Camera List

No.	Camera Name	IP Address	Vendor	Model	Original Web
1	Camera 1	192.168.1.107	Auto	C1100	Go to Web
2	Camera 2	192.168.1.105	Auto	C1100-W	Go to Web
3	camera3	192.168.1.108	Brickcom Corporation	FB-130Np	Go to Web
4	Camera 4	192.168.1.106	Auto	C1100-W	Go to Web

As you click one column turning into list , please wait and the window below will appear to allow users configure multi-stream.

Camera Parameter

Camera No.	2	Camera Name	Camera 2
Main Stream (Recording / Live view option 1)			
Video Format	<input type="radio"/> MPEG4 <input checked="" type="radio"/> H264 <input type="radio"/> MJPEG		
Resolution	1280x720		
Frame Rate	30 fps		
Video Quality	<input type="radio"/> VBR 3 <input checked="" type="radio"/> CBR 4000 Kbps		
Enable Audio Recording	<input checked="" type="checkbox"/>	Enable Mobile Snapshot	<input type="checkbox"/>
Subordinate Stream (Live view option 2)			
Enabled	<input checked="" type="checkbox"/>		
Video Format	<input type="radio"/> MPEG4 <input checked="" type="radio"/> H264 <input type="radio"/> MJPEG		
Resolution	640x352		
Frame Rate	30 fps		
Video Quality	<input checked="" type="radio"/> VBR 6 <input type="radio"/> CBR 2000 Kbps		
Enable Audio Recording	<input checked="" type="checkbox"/>		


Camera List

No.	Camera Name	IP Address	Vendor	Model	Original Web
1	Camera 1	192.168.1.107	Auto	C1100	Go to Web
2	Camera 2	192.168.1.105	Auto	C1100-W	Go to Web
3	camera3	192.168.1.108	Brickcom Corporation	FB-130Np	Go to Web
4	Camera 4	192.168.1.106	Auto	C1100-W	Go to Web

After loading camera's information, users can modify camera parameter.

Video Format

Choose a video compression format for live view and recording: MPEG4, H.264 and MJPEG.

 **Note:** Types of video format varies depending on the camera brands and models.

Frame Rate

Select frame rate from drop-down list. Frame rate of IP camera will be influenced by the network surroundings.

Resolution

Select resolution from drop-down list for your camera.

Video Quality

Select either "**VBR**" (Variable bit rate) or "**CBR**" (Constant bitrate) to set the video quality.

Audio Enable

To make audio recording function enable or disable.

Stream Target

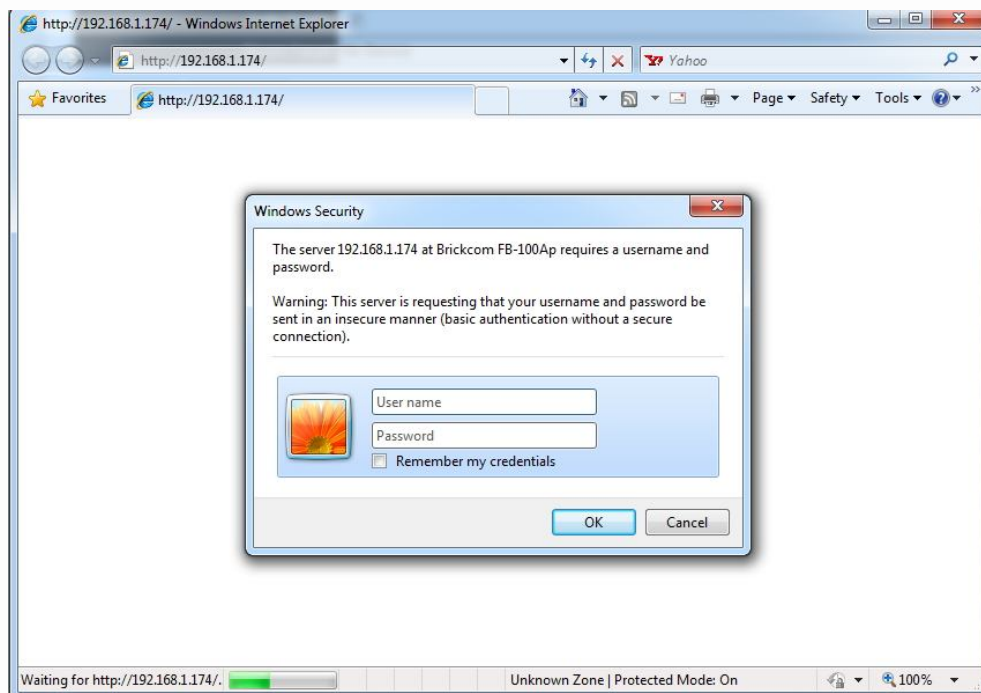
Apply stream settings to different target including **live view**, **record**, and **live view & Record**.

Furthermore, click **“Go to Web”** for advanced camera configuration in camera’s user interface.

Camera List

No.	Camera Name	IP Address	Vendor	Model	Original Web
1	Camera 1	192.168.1.107	Auto	C1100	Go to Web
2	Camera 2	192.168.1.105	Auto	C1100-W	Go to Web
3	camera3	192.168.1.108	Brickcom Corporation	FB-130Np	Go to Web
4	Camera 4	192.168.1.106	Auto	C1100-W	Go to Web
5					Go to Web

At the same time, a window will pop up to ask for user name and password for camera configuration.



Camera Status

Please select “**Camera Status**” from the drop-down menu of **IP Camera** to begin.

▼ **IP Camera**

> Camera Settings

> Camera Parameter

> **Camera Status**

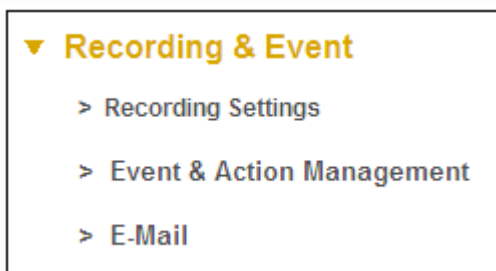
Camera List shows connection status of recording.

Camera Status

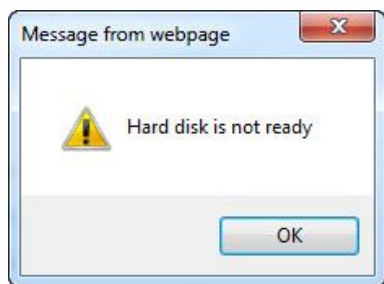
Camera Status						
No.	Camera Name	IP Address	Conn. Status	Rec. Status	Framerate(fps)	Bitrate(Kbps)
1	Camera 1	192.168.1.107	Disconnected	Stopped	0 fps	0 Kbps
2	Camera 2	192.168.1.105	Connected	Recording	23 fps	3114.0 Kbps
3	camera3	192.168.1.108	Disconnected	Stopped	0 fps	0 Kbps
4	Camera 4	192.168.1.106	Connected	Recording	25 fps	3441.8 Kbps
5			-	-	0 fps	0 Kbps

Recording & Events

Recording & Events can provide different event modes and recording schedule for users to configure IP camera. Event & Action Management also allows users to combine various events and its triggered actions to achieve the security surveillance.



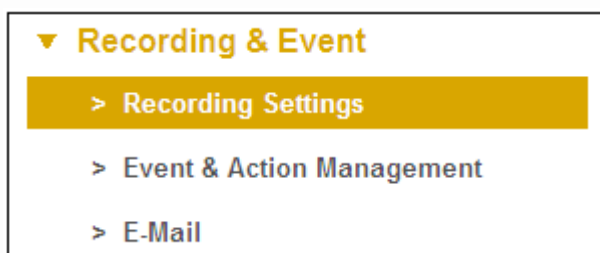
If the hard disk is not installed, the following window will pop up when you click "**Recording & Event**".



After the hard disk is ready, users can continue the following settings.

Recording Settings

Please select "**Recording Settings**" from the drop-down menu of **Recording & Event** to begin.



Recording Mode

Users can set the mode of “**No Recording**,” “**Event Recording**,” “**Recording by Schedule**” and “**Always Recording**” for each connected cameras.

Recording Settings

No Recording: Once “**No Recording**” is selected, all cameras will be disabled to record the video.

Event Recording: Once “**Recording by Schedule**” is selected,

Recording by Schedule: Once “**Recording by Schedule**” is selected, users can set the scheduled time to record the video. Users should configure the schedule in “**Recording Schedule**” section.

Recording Settings

Recording Mode

Recording Schedule

Always Recording: Users can select the camera or click “**All**” camera to apply “**Always Recording**” function. The video will be recorded continuously.

NVR provides two ways to delete the recorded videos.

HDD Automatic Recycle: Users can set recording percentage for keeping videos to overwrite the oldest video files automatically. The maximum threshold is 90% while the minimum is 20%. For example, once the threshold is set as 70% and the storage of HDD arrives 70%, server will automatically delete the oldest recorded videos.

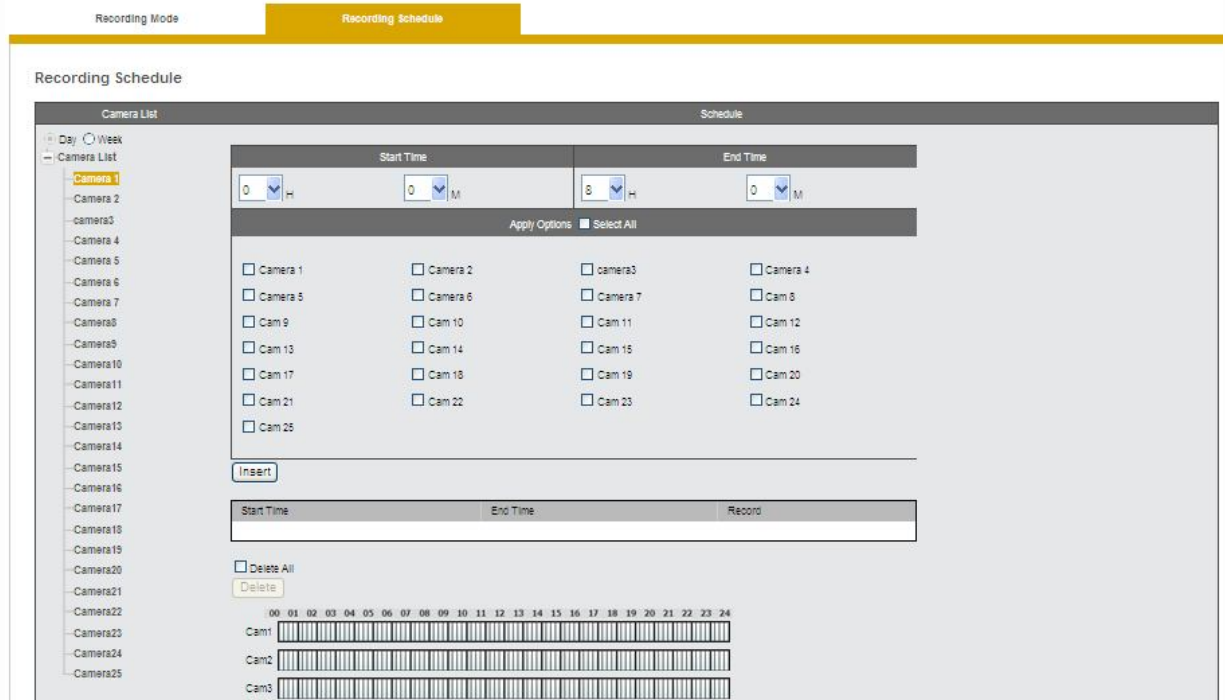
Video Keeping Period: Users can set time period for keeping videos. For example, once 7 days is set and the storage of HDD has kept over 7 days, DIGISTOR will automatically delete the recorded videos of the earliest day.

Click “**Apply**” to apply setting or click “**Reset**” to change the setting.

Recording Schedule

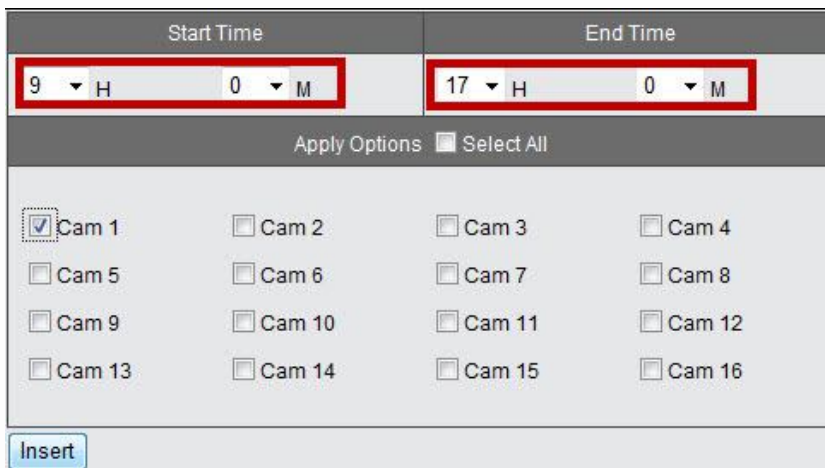
Users can configure Recording Schedule to define time range for all channels.

Recording Settings

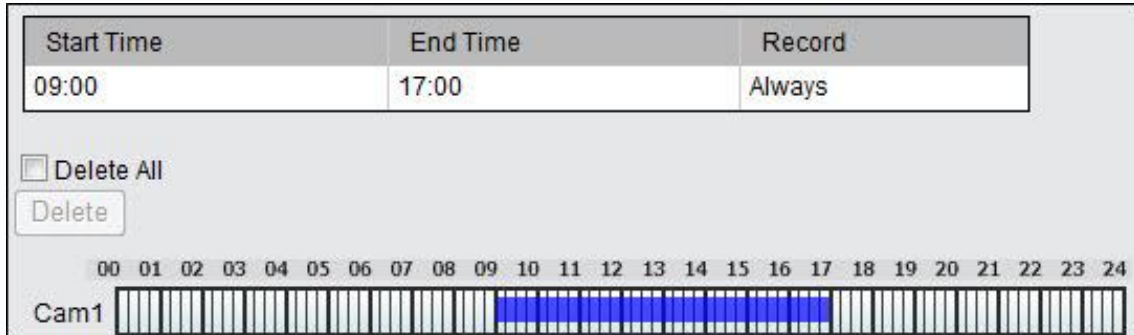


Insert schedule

Select time range and channel for recording schedule and click **“Insert.”**

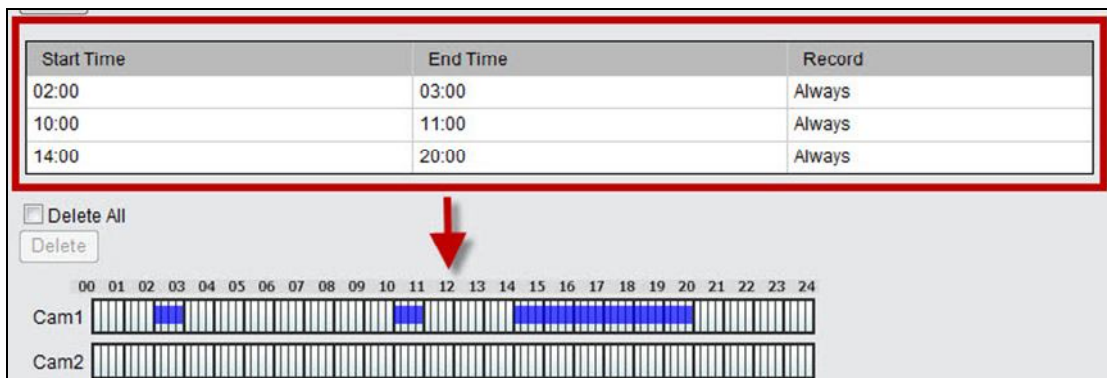


After inserting time range and channel, the time/camera bar displays the selected time.



Click "**Apply**" to finish setting or "**Reset**" to rearrange time and camera channel.

⚠ Note: A camera can set multi-recording schedule at same time as below picture.



Delete schedule

Users can erase the specific time in recording schedule by selecting the time then click "**Delete**".



Delete All

With checking the **Delete All** and then select the camera, users can remove the whole recording schedule for the certain camera after

click "Delete".

Recording Schedule

Camera List

- home
- Camera2
- Camera3
- Camera4
- Camera5
- Camera6
- Camera7
- Camera8
- Camera9
- Camera10
- Camera11
- Camera12
- Camera13
- Camera14
- Camera15
- Camera16
- Camera17
- Camera18
- Camera19
- Camera20
- Camera21
- Camera22
- Camera23
- Camera24
- Camera25

Schedule

Start Time: 4 H 0 M End Time: 5 H 0 M

Apply Options Select All

<input checked="" type="checkbox"/> home	<input type="checkbox"/> Cam 2	<input type="checkbox"/> Cam 3	<input type="checkbox"/> Cam 4
<input type="checkbox"/> Cam 5	<input type="checkbox"/> Cam 6	<input type="checkbox"/> Cam 7	<input type="checkbox"/> Cam 8
<input type="checkbox"/> Cam 9	<input type="checkbox"/> Cam 10	<input type="checkbox"/> Cam 11	<input type="checkbox"/> Cam 12
<input type="checkbox"/> Cam 13	<input type="checkbox"/> Cam 14	<input type="checkbox"/> Cam 15	<input type="checkbox"/> Cam 16
<input type="checkbox"/> Cam 17	<input type="checkbox"/> Cam 18	<input type="checkbox"/> Cam 19	<input type="checkbox"/> Cam 20
<input type="checkbox"/> Cam 21	<input type="checkbox"/> Cam 22	<input type="checkbox"/> Cam 23	<input type="checkbox"/> Cam 24
<input type="checkbox"/> Cam 25			

Insert

Start Time	End Time	Record
04:00	05:00	Always
09:00	16:00	Always

Delete All

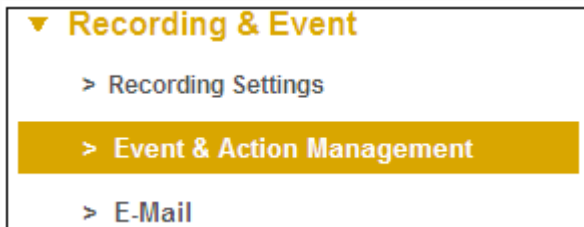
Delete

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Cam1
Cam2
Cam3
Cam4

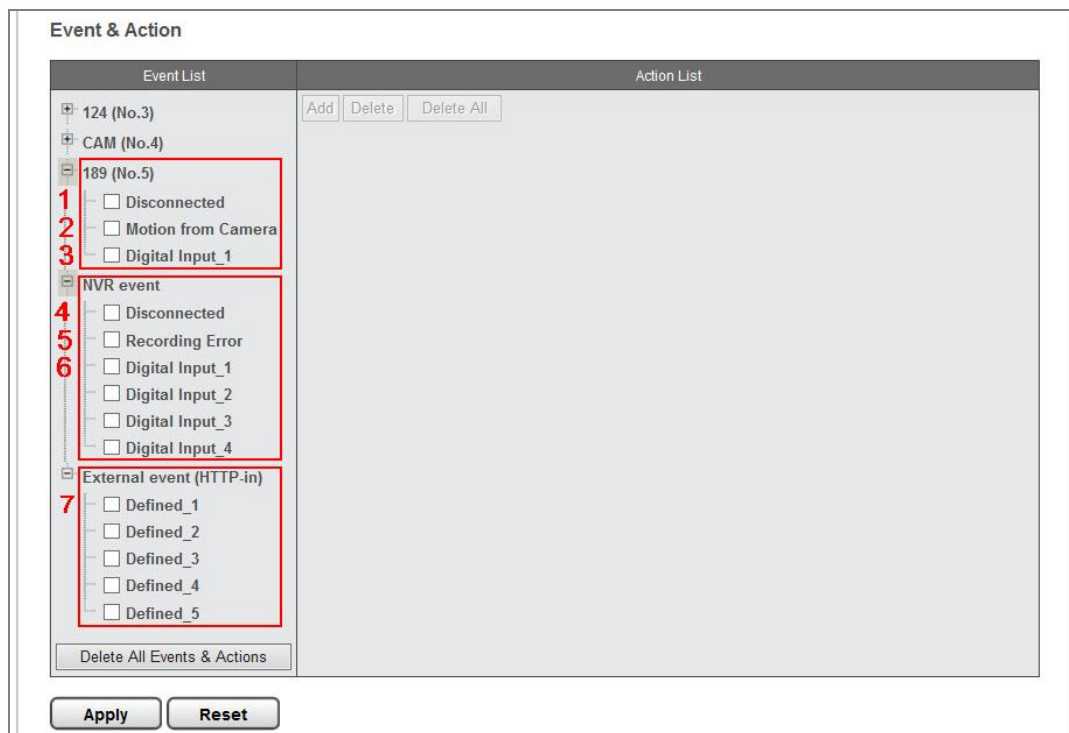
Event & Action Management

Please select “Event & Action Management” from the drop-down menu of Recording & Event to begin.



“Event & Action Management” allows users to define alarm setting that manage events and its corresponding action. When an event occurs, NVR will perform certain actions. This setting can strengthen security level during monitoring and recording to notify users when necessary.

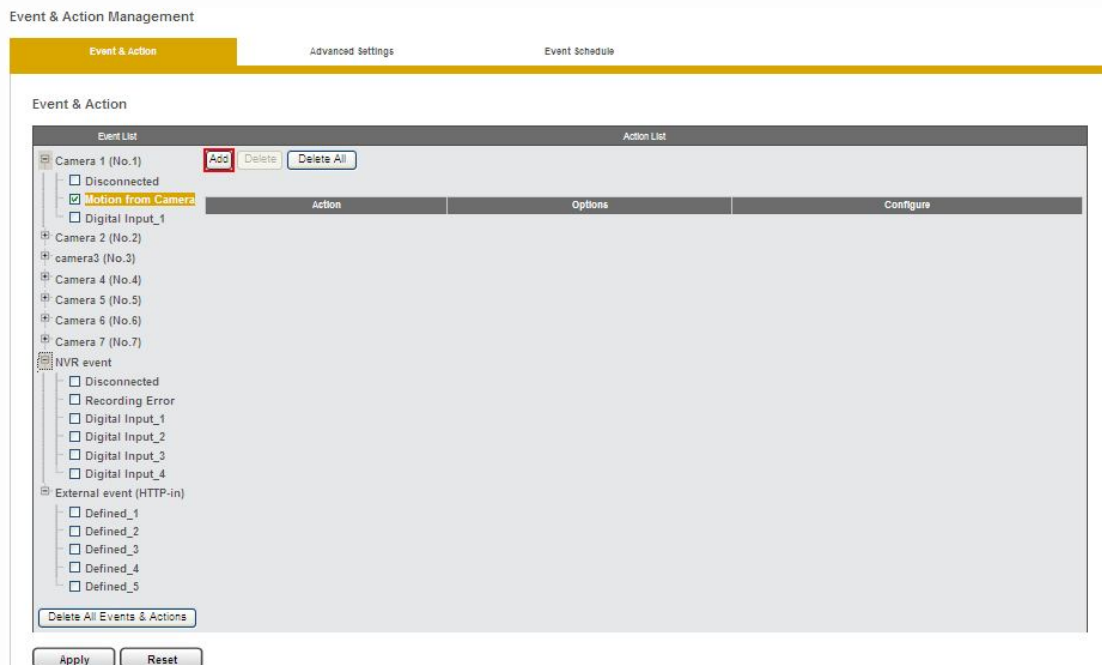
Event & Action



NVR supports different actions which can be activated when the selected events are triggered in IP cameras. Users can configure multiple types of event for camera, and NVR also provide various types of event for NVR system.

- Disconnected
- Motion from Camera
- Digital Input
- NVR event: Disconnected
- NVR event: Recording Error
- NVR event: Digital Input
- External event(HTTP-in)

An event type is a set of parameters that defines different actions. Check an event type and click "**Add**" to select NVR Action.



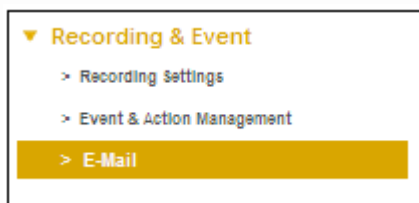
Note: The action will be only triggered when the action is added to the event.

Disconnected

You can set action as "**Send E-Mail**", "**Digital Output**", "**User Defined Action**" and "**SMS**". Once there is a connection lost with the camera, defined actions can be triggered.

Send E-Mail

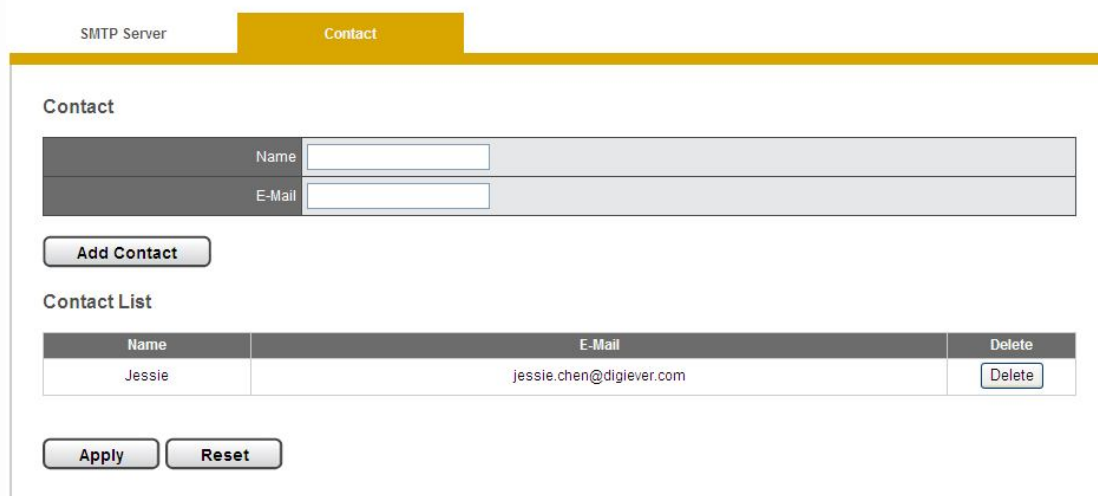
E-Mail Configuration window will pop up as you add **Send E-Mail** to action. But there will be no contactor listed in the configuration at fist, please go to add a new contactor in the following section **E-Mail.**



After contact information is added, **Contact List** shows the information of Name and E-Mail. Select **Contact List** and **Apply Options** for cameras. Then please click **Ok** to finish E-MAIL Configuration.

If **Attached with the snapshot** is enabled, the Email will be sent with snapshot of the event.

E-Mail

A screenshot of the 'E-Mail' configuration window. The window has two tabs: 'SMTP Server' and 'Contact'. The 'Contact' tab is active. Below the tabs, there is a 'Contact' section with two input fields: 'Name' and 'E-Mail'. Below these fields is an 'Add Contact' button. Underneath is a 'Contact List' section with a table. The table has three columns: 'Name', 'E-Mail', and 'Delete'. The first row contains the name 'Jessie', the email 'jessie.chen@digiever.com', and a 'Delete' button. At the bottom of the window are 'Apply' and 'Reset' buttons.

Name	E-Mail	Delete
Jessie	jessie.chen@digiever.com	Delete


Click **Apply** to finish the configuration.

E-Mail action will be triggered once per 20 seconds as the event is happening, which means if an event is lasting for one minutes, NVR will send email 3 times per every 20 seconds.

Digital Output

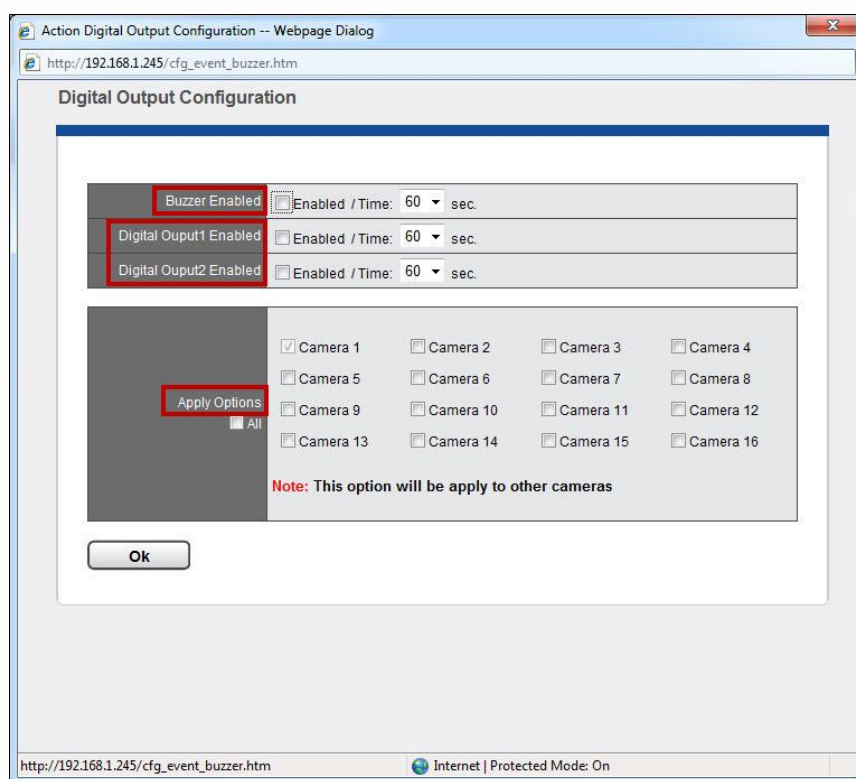
Digital Output Configuration window will pop up as you add **Digital Output** to action.

Buzzer can be enabled up to sound for 60 seconds.

 **Note:** User can press “**USB BACKUP**” button on the front panel of NVR for one second to stop the buzzerbeeping.USB Backup button is supported in DS-8200-RM Pro Series, DS-4200-RM Pro Series, DS-4200 Pro Series, DS-4000 Series and DS-2000 Pro Series.

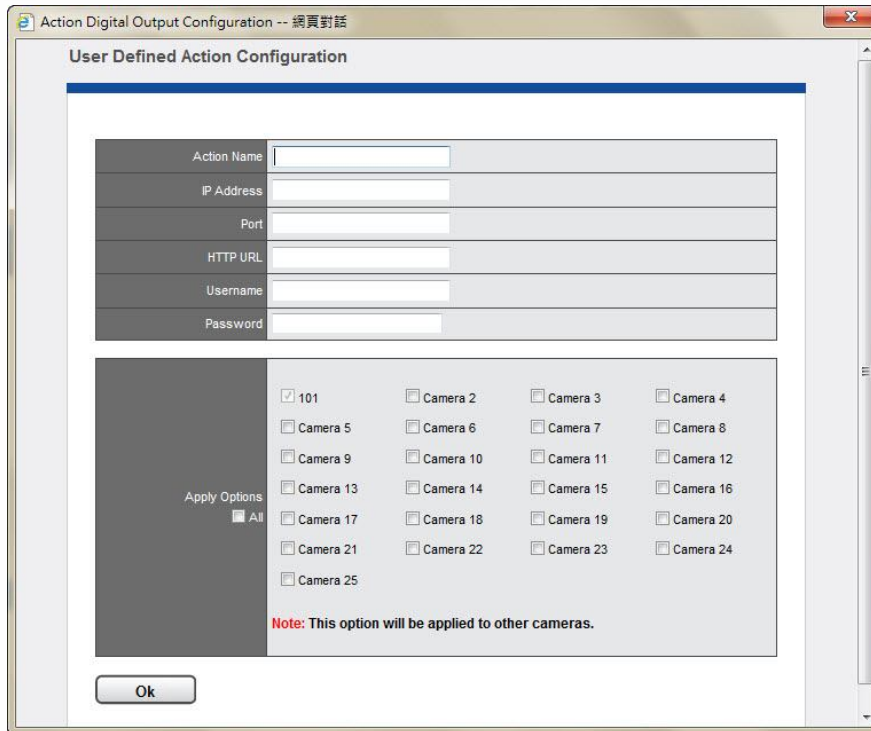
Digital Output1 and **Digital Output2** are supported by other digital outputs of server and can be enabled up to 60 seconds.

Select **Apply Options** for cameras to finish the configuration.



User Defined Action

User Defined Action allows users to send the specific HTTP command out when an event is triggered in order to manage devices such as power controller, fire/smoke protection device, etc.



SMS

SMS stands for Short Message Service. Users can be notified by short message service while the event is triggered. The service is supported by [Clickatell](#) and users need to register for the service. It supports only for English message currently.

Settings:

1. Fill out the correct username, password and API ID about SMS server.
2. Select country and input cell phone number.
3. Put the message for sending out to the cell phone.
4. Users can test whether the account information and cell phone is correct before application.
5. Click "OK" to complete the parameters settings.

SMS Server and Notification Settings

SMS Service Provider	Clickatell
Username	
Password	
SMS Server API ID	
Cell Phone No.	Taiwan (+886) +886 [test]
Cell Phone No.	Taiwan (+886) +886 [test]
Message	

Motion from Camera

You can set action as **“Event Trigger Record,” “Send E-Mail,” “Digital Output,” “User Defined Action” and “SMS.”** Once a motion is detected by camera, various actions can be triggered.

Event & Action Management

Event & Action Advanced Settings Event Schedule

Event & Action

Event List	Action List
<ul style="list-style-type: none"> Camera 1 (No.1) <ul style="list-style-type: none"> <input type="checkbox"/> Disconnected <input checked="" type="checkbox"/> Motion from Camera <input type="checkbox"/> Digital Input_1 Camera 2 (No.2) camera3 (No.3) Camera 4 (No.4) Camera 5 (No.5) Camera 6 (No.6) Camera 7 (No.7) NVR event External event (HTTP-in) 	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> Add Delete Delete All </div> <div style="border: 1px solid gray; padding: 5px; background-color: #fff9c4;"> <ul style="list-style-type: none"> Event Triggered Recording Send E-Mail Digital Output User Defined Action SMS </div> <div style="border: 1px solid gray; padding: 5px; text-align: right;"> Configure </div>

Apply Reset

Event Triggered Record

You can enable Event trigger record and Video Clip.

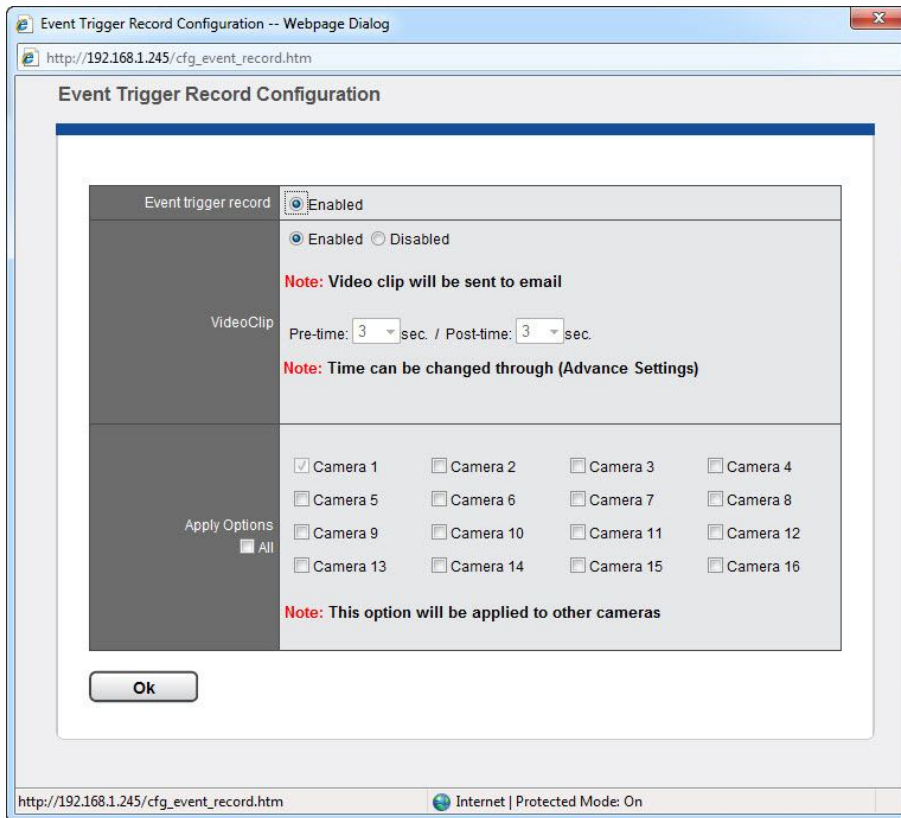
Event triggered record: When event is triggered, NVR records video and records every five minutes as the event continues happening.

Video Clip: Video clip will be sent by E-mail and you can change the Pre-time and Post-time through **“Advanced Settings.”**

Event & Action Management

Event & Action **Advanced Settings** Event Schedule

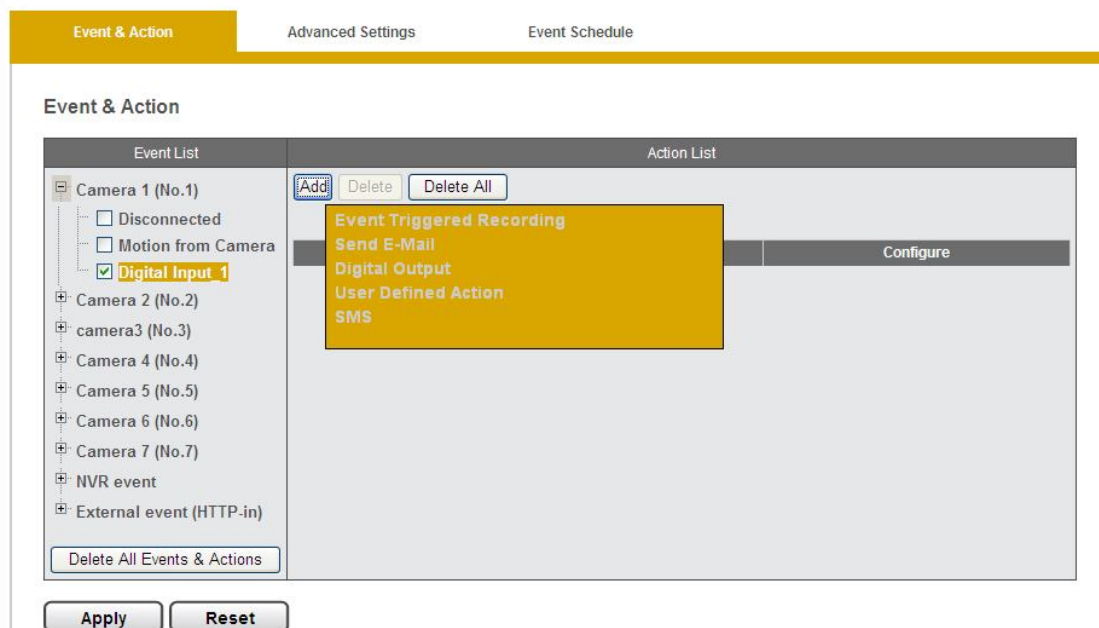
Select cameras in **Apply Options** field to finish the configuration.



Digital Input

You can set action as "Event Trigger Record," "Send E-Mail" and "Digital Output", "User Defined Action" and "SMS." Once Digital Input is detected from camera, various actions can be triggered.

Event & Action Management



NVR event : Disconnected

You can set action as **"Digital Output."** Once NVR loses its network connection, the actions can be triggered.

Event & Action

The screenshot shows the 'Event & Action' configuration window. On the left, the 'Event List' pane shows 'NVR event' expanded with 'Disconnected' checked. On the right, the 'Action List' pane shows 'Digital Output' selected with a 'Configure' button. At the top of the 'Action List' pane are 'Add', 'Delete', and 'Delete All' buttons. At the bottom of the 'Event List' pane is a 'Delete All Events & Actions' button.

Apply **Reset**

NVR event : Recording Error

You can set action as **"Send E-Mail"** and **"SMS."** Once NVR fails in recording, the actions can be triggered.

Event & Action

The screenshot shows the 'Event & Action' configuration window. On the left, the 'Event List' pane shows 'NVR event' expanded with 'Recording Error' checked. On the right, the 'Action List' pane shows 'Send E-Mail' and 'SMS' selected with a 'Configure' button. At the top of the 'Action List' pane are 'Add', 'Delete', and 'Delete All' buttons. At the bottom of the 'Event List' pane is a 'Delete All Events & Actions' button.

Apply **Reset**

NVR event: Digital Input

You can set action as **“Event Trigger Record,” “Send E-Mail” and “Digital Output,” “User Defined Action” and “SMS.”** Once Digital Input is detected from camera, multiple actions can be triggered.

Event & Action

The screenshot shows the 'Event & Action' configuration window. On the left, under 'Event List', 'Digital Input 1' is selected. On the right, under 'Action List', a dropdown menu is open showing the following actions: 'Event Triggered Recording', 'Send E-Mail', 'Digital Output', 'User Defined Action', and 'SMS'. A 'Configure' button is located to the right of the dropdown. At the top of the 'Action List' section, there are 'Add', 'Delete', and 'Delete All' buttons. At the bottom of the 'Event List' section, there is a 'Delete All Events & Actions' button.

Apply **Reset**

External event(HTTP-in)

You can set action as **“Event Trigger Record,” “Send E-Mail” and “Digital Output,” “User Defined Action” and “SMS.”** Once Digital Input is detected from camera, multiple actions can be triggered.

Event & Action Management

The screenshot shows the 'Event & Action Management' window. At the top, there are tabs for 'Event & Action', 'Advanced Settings', and 'Event Schedule'. The 'Event & Action' tab is active. On the left, under 'Event List', 'Defined 1' is selected under 'External event (HTTP-in)'. On the right, under 'Action List', a dropdown menu is open showing the following actions: 'Event Triggered Recording', 'Send E-Mail', 'Digital Output', 'User Defined Action', and 'SMS'. 'Options' and 'Configure' buttons are located to the right of the dropdown. At the top of the 'Action List' section, there are 'Add', 'Delete', and 'Delete All' buttons. At the bottom of the 'Event List' section, there is a 'Delete All Events & Actions' button. At the bottom of the window, there are 'Apply' and 'Reset' buttons.

Event could be triggered by external HTTP-in CGI command. It allows users to define up to 5 different HTTP-in events. With the "External Event", users can set its actions just like other events.

The format of external HTTP-in event CGI :http://<NVR_IP>/login.cgi/cgi_main.cgi?cgiName=event_ipc.cgi&eventName=Defined_<int>

- <NVR_IP> is the IP of NVR that command need to be delivered to.
- <int> is defined for what number(1~5) of external HTTP-in event need to be triggered.

For example :
http://192.168.1.245/login.cgi/cgi_main.cgi?cgiName=event_ipc.cgi&eventName=Defined_3

- The CGI is for sending message to the NVR with IP 192.168.1.245 and trigger the external event #3

Finally, please click "**Apply**" to execute all settings.

Advanced Setting

Event & Action Management

Event & Action **Advanced Settings** Event Schedule

Advanced Settings

Action Triggered Interval	30 sec
Video Clip	Seconds before event being triggered. 10 sec. Start Recording Video
	Seconds after Event 10 sec. Stop Video
Recording Settings	Seconds before event being triggered. 300 sec. Start Recording Video
	Seconds after Event 300 sec. Stop Video
Event Triggered with Audio	<input type="checkbox"/>

Tip: When 'Event Triggered with Audio' is enabled, the audio of all cameras will be disabled to do recording until the event is triggered. And when the event stops, the audio will be disabled again accordingly. All above will not influence the audio function in liveview.

Action Triggered Interval

Users can set proper time interval when events are triggered in sequence.

Video Clip and Recording Settings

Users can set Pre-time of record and Post-time of record for video clip and event recording.

Pre-time of record can up to 300 seconds before the event is triggered and
Post-time of record can up to 300 seconds after the event ends.

Event Triggered with Audio

Users can set up whether Audio is recorded only when an event is triggered. When “Event Triggered with Audio” is enabled, camera audio will be recorded when an event is triggered. When the event stops, the audio will be disabled again automatically.

Click “**Apply**” to apply setting.

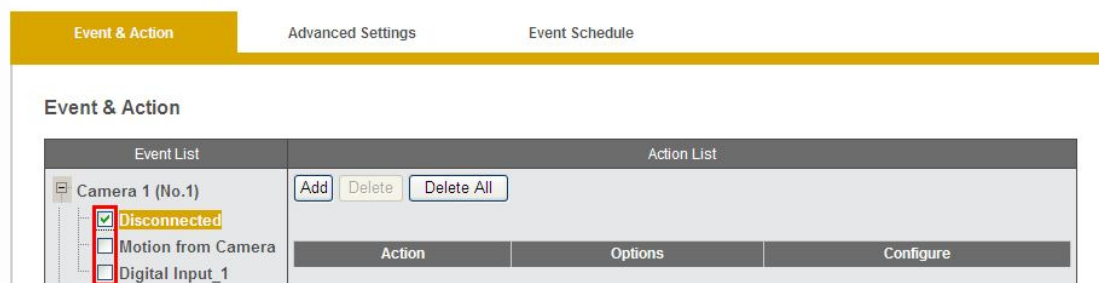
Event Schedule

Users can setup the event detection for certain period of duration.

Setup event schedule

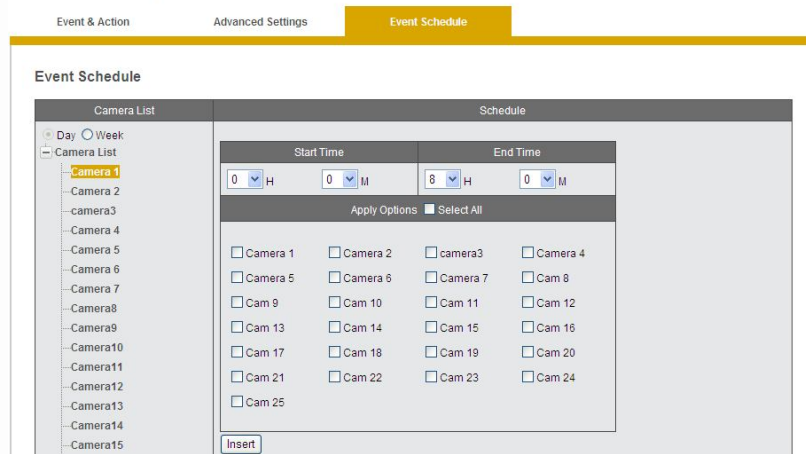
A. Enable the event detection in “Event & Action” by clicking any of the event checkbox.

Event & Action Management

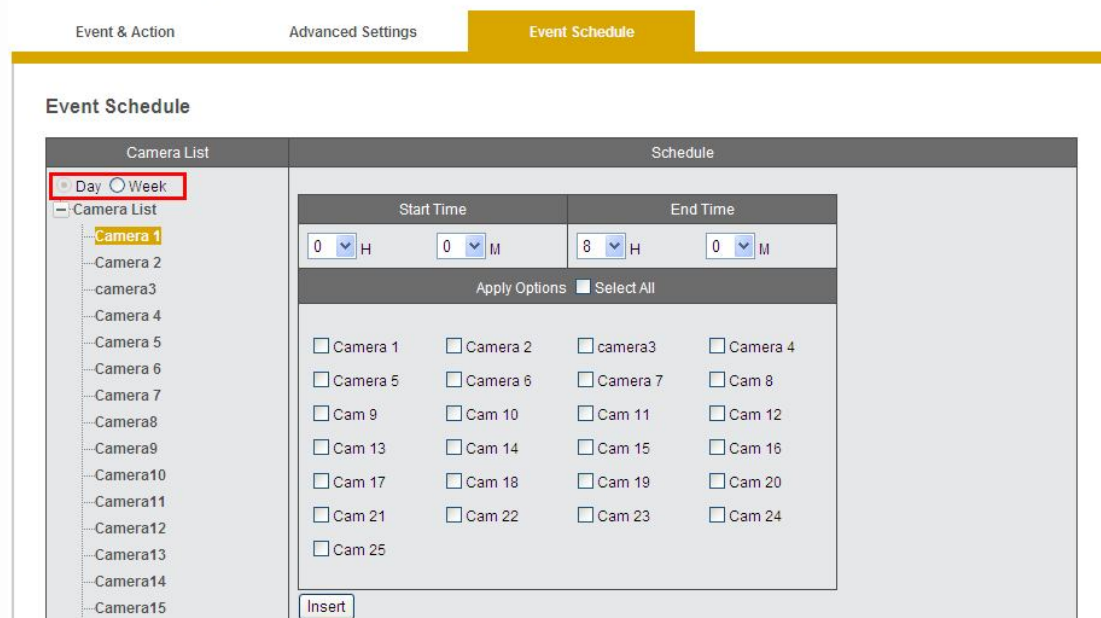


Note: It will automatically start the alarm schedule with “always” mode.

B. Go to the event schedule setting page to setup.



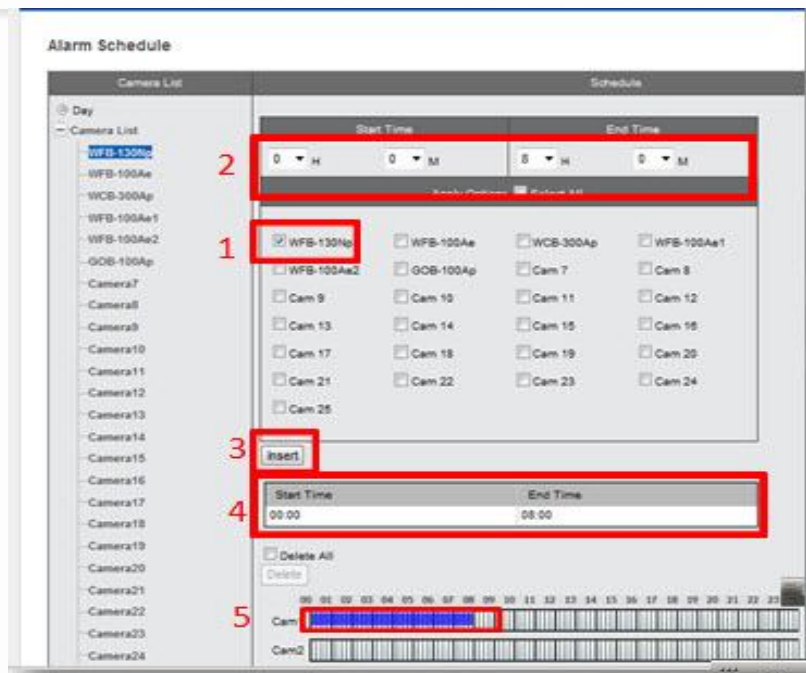
Setup event schedule.



Select the type of event Schedule

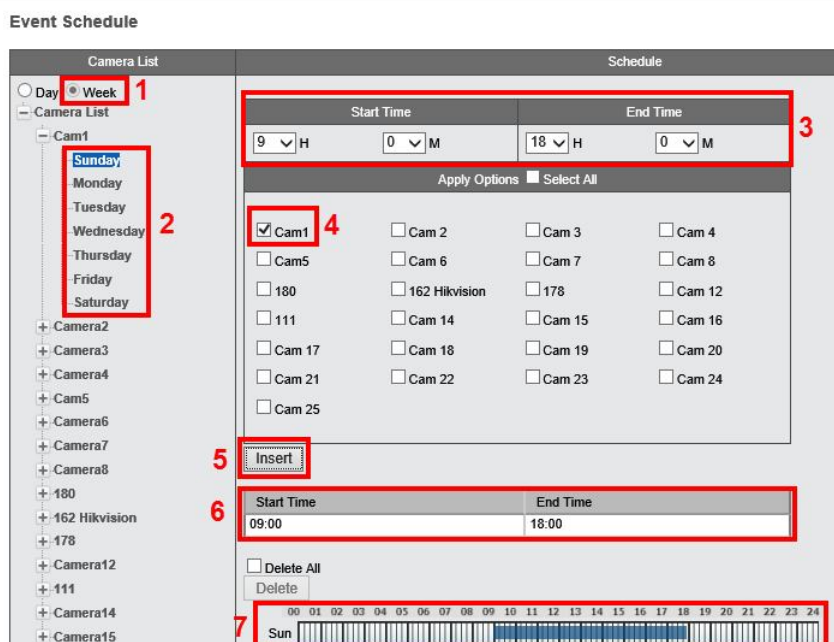
By Day





1. Select the camera
 2. Designate the time period
 3. Click Insert button to be effective
 4. Designated duration will be displayed
 5. Designated duration is shown on chart
- Press **"Apply"**

By Week

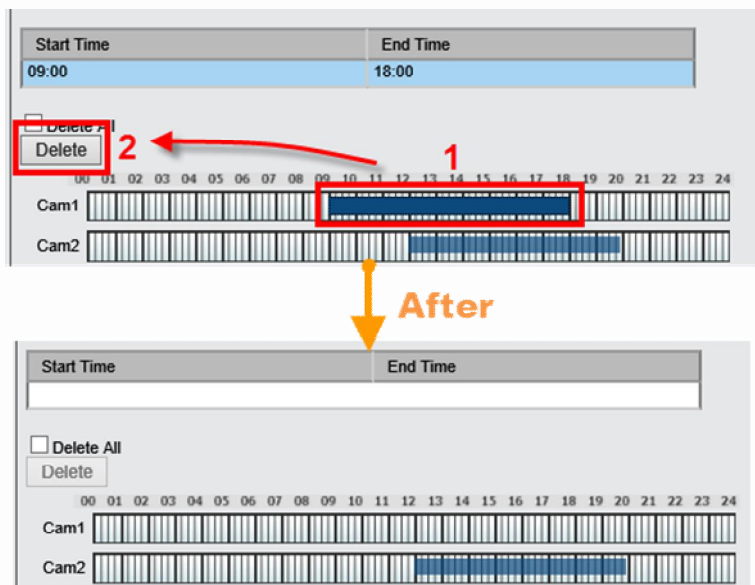


1. Select the schedule as "Week"
2. Select the day for the specific recording schedule

3. Designate the time period
 4. Select the camera for adaption
 5. Click insert to be effective
 6. The designated duration will be displayed
 7. The designated duration will be shown in chart
- Press **"Apply"**

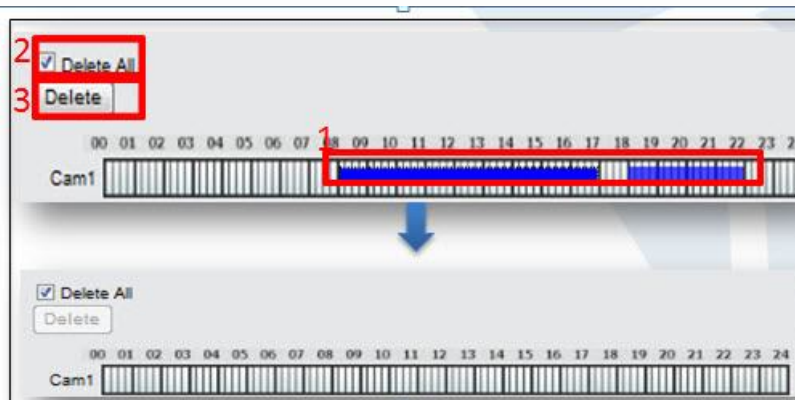
Remove event schedule

Please follow the following steps to remove the certain period of duration



1. Designate the time period on chart by clicking on it
2. Click the Delete button
3. The designate period is removed

Remove all alarm periods in one camera



1. Click any period of the camera
2. Select Delete All checkbox

3. Click on Delete button

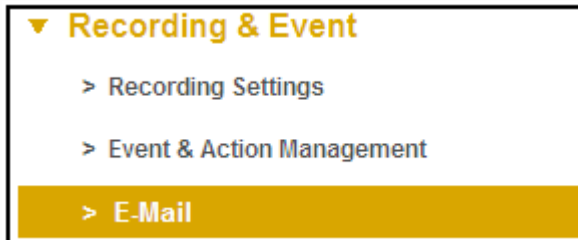
4. All durations of the camera are removed

Note: It will remain the alarm schedule as "always" mode



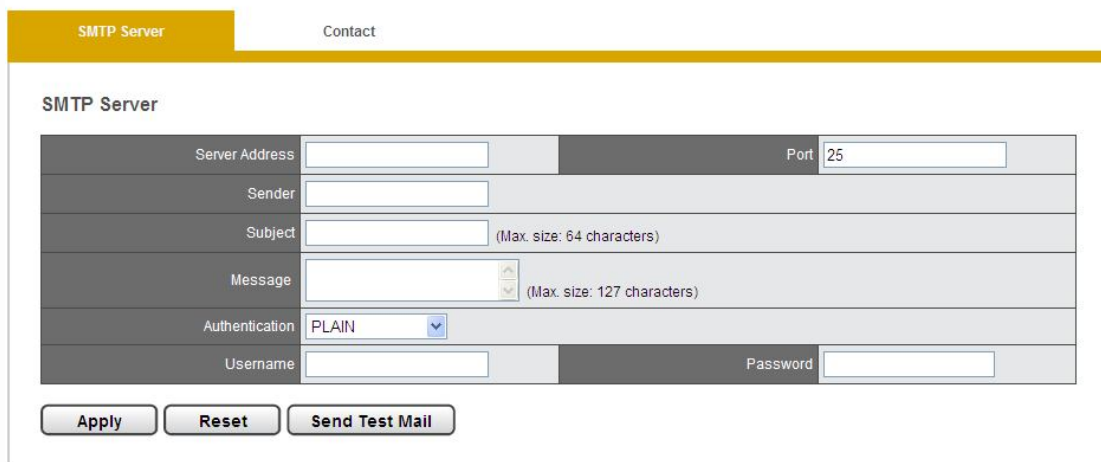
E-Mail

Please select “E-Mail” from the drop-down menu of **Recording & Event** to begin.



SMTP Server

E-Mail

A screenshot of the "SMTP Server" configuration form. The form has two tabs: "SMTP Server" (selected) and "Contact". The form contains several input fields: "Server Address", "Port" (with a value of 25), "Sender", "Subject" (with a note "(Max. size: 64 characters)"), "Message" (with a note "(Max. size: 127 characters)"), "Authentication" (with a dropdown menu set to "PLAIN"), "Username", and "Password". At the bottom of the form are three buttons: "Apply", "Reset", and "Send Test Mail".

Server Address: Enter the Server Address of the SMTP server.

Sender: Specify sender’s E-Mail in the “**Sender**” field.

Subject: Enter the Subject.

Body: Enter the content for Body.

Authentication: Depending on the mail sensor, SMTP Server provides three types of authentication. Select “**Authentication**” as “**PLAIN**”, “**LOGIN**”, or “**LOGIN with TLS**” according to the regulation of different SMTP servers.

User name: Specify username.

Password: Specify user password.

Click “**Apply**” to finish or “**Send Test Mail**” to check the availability.

Contact

Add contactor by entering name and E-Mail and click “**Add Contact.**”

E-Mail

SMTP Server **Contact**

Contact

Name	<input type="text"/>
E-Mail	<input type="text"/>

Contact List

Name	E-Mail	Delete
Jessie	jessie.chen@digiever.com	<input type="button" value="Delete"/>

Contact List will show the information you entered. Please click "**Apply**" to finish settings.

Result will show in the following Contactors List and users can delete the contactor or continue to add a new contactor.

Disk Management

NVR can create new RAID disk or delete/format the RAID disk. Also, users can manage NVR's storage device for data transmission and file sharing service.



Disk Management

Please select "**Disk Management**" from the drop-down menu of **Disk Management** to begin.

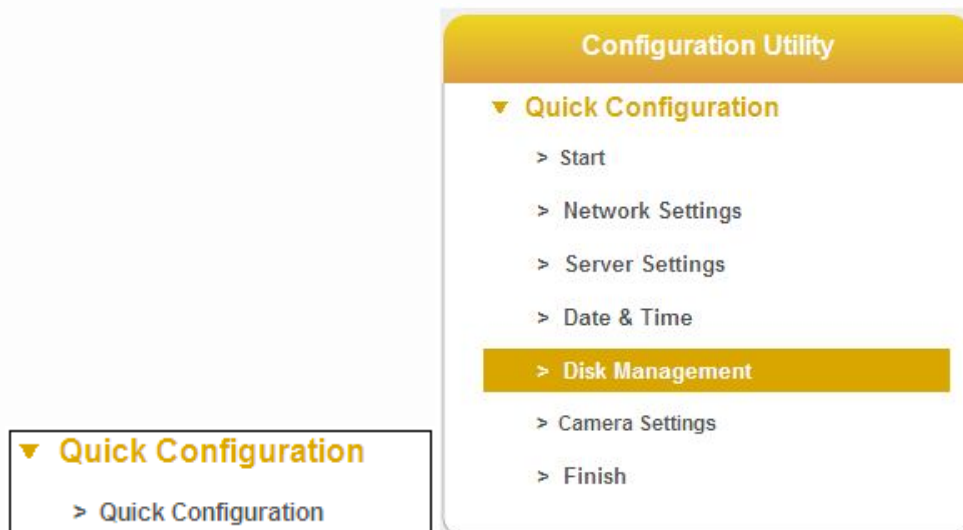


1. Disk Information

When there is no hard disk installed in NVR, the page will show “**Disk doesn’t exist.**”

The steps for creating and deleting hard disk, please refer to the disk management of Quick Configuration.

Please select “**Disk Management**” from the drop-down menu of **Quick configuration** to begin.



File System Management

Please select “**File system Management**” from the drop-down menu of **Disk Management** to begin.



When there is no hard disk installed in the NVR, the page will show “**No File system.**”

Once the hard disk is installed, the file system will show the volume of RAID as below.

Filesystem Management

Filesystem

Filesystem List	Filesystem Information										
Filesystem List <ul style="list-style-type: none">Volume1 [916.89 GB,RAID A]	<table border="1"><tr><td>Name</td><td>Volume1</td></tr><tr><td>Capacity</td><td>916.89 GB</td></tr><tr><td>Size Used, Usage</td><td>772.38 GB, 84.23%</td></tr><tr><td>Device</td><td>RAID A</td></tr><tr><td>Status</td><td>Mounted</td></tr></table>	Name	Volume1	Capacity	916.89 GB	Size Used, Usage	772.38 GB, 84.23%	Device	RAID A	Status	Mounted
Name	Volume1										
Capacity	916.89 GB										
Size Used, Usage	772.38 GB, 84.23%										
Device	RAID A										
Status	Mounted										

File system provides an efficient method to organize data expected to be retained after a program is terminated by providing procedures to store, retrieve and update data, as well as manage the available space on the device.

File Sharing Service

Please select “**File Sharing Service**” from the drop-down menu of **Disk Management** to begin.



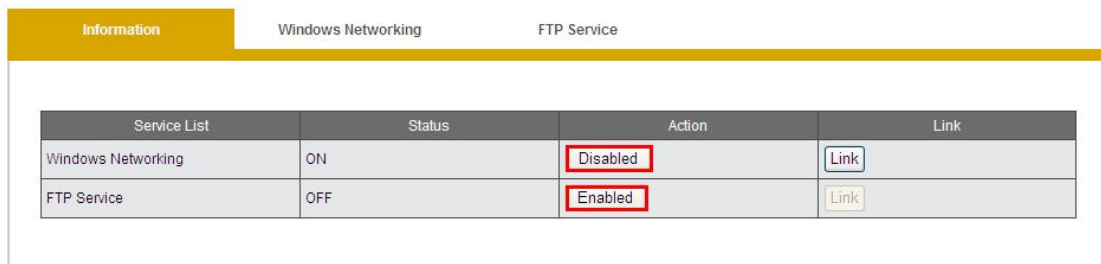
Arrange data transmission service including **Windows Networking** and **FTP service**.

When there is no hard disk installed in the DIGISTOR, the screen will show “**No Filesystem.**”

Information

Once the hard disk is installed, the filesystem will show status as below. Turn On or turn off sharing service to enable or disable **Windows Networking** and **FTP service**.

File Sharing Service



A screenshot of the 'File Sharing Service' configuration page. The page has three tabs: 'Information' (selected), 'Windows Networking', and 'FTP Service'. Below the tabs is a table with the following data:

Service List	Status	Action	Link
Windows Networking	ON	Disabled	Link
FTP Service	OFF	Enabled	Link

After the service is enable, by using link button on the File Sharing Service page, users can open the dialog of windows to share service and FTP service directly.

File Sharing Service

Service List	Status	Action	Link
Windows Networking	ON	<input type="button" value="Disabled"/>	Link
FTP Service	ON	<input type="button" value="Disabled"/>	Link

Windows Networking

In Windows Networking field, users can enable or disable the services and **Computer Name** is already shown. **Computer Description** and **Domain or Workgroup Name** can be changed.

File Sharing Service

Information	Windows Networking	FTP Service
Windows Settings		
Services	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	
Computer Name	DS201	
Computer Description	<input type="text" value="NVR"/>	
Domain or Workgroup Name	<input type="text" value="Surveillance"/>	
<input type="button" value="Apply"/> <input type="button" value="Reset"/>		

FTP Service

File Sharing Service

Information	Windows Networking	FTP Service
FTP Settings		
Services	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	
Command Port	<input type="text" value="21"/>	
Passive Ports	<input type="text" value="1024"/> ~ <input type="text" value="65535"/>	
Note: Ports: 1234~1362 and some others ports are reserved by system		
<input type="button" value="Apply"/> <input type="button" value="Reset"/>		

In FTP Settings, users can enable or disable FTP Services. User can arrange **Command Port** and **Passive Port** and configure language interface in **Client Coding Type**.

Please click **"Apply"** to finish FTP settings.

Cloud

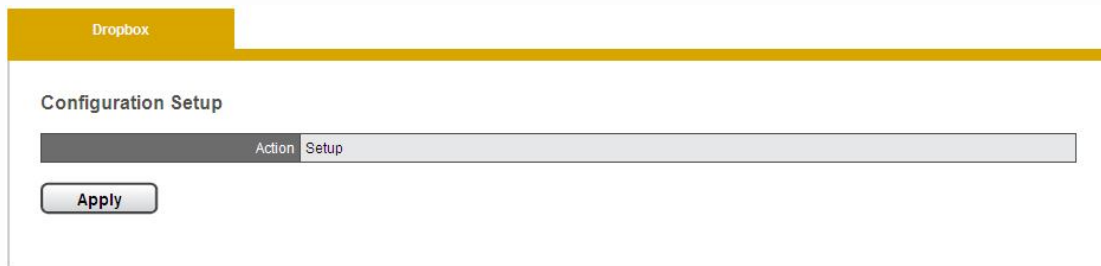
NVR provides cloud backup to upload recorded files to Dropbox. With cloud backup, users can share recorded files with a link.

Please select “**Dropbox**” from the drop-down menu of **Cloud** to begin.



Setup Dropbox Service

Please click “**Apply**” to start Dropbox webpage connection and to establish a folder in Dropbox.



At the same time, a window will pop up to ask users to sign in account.



Another window will pop up to enter Dropbox password again to connect NVR.

🔒 Enter your Dropbox password to link this host to your account.

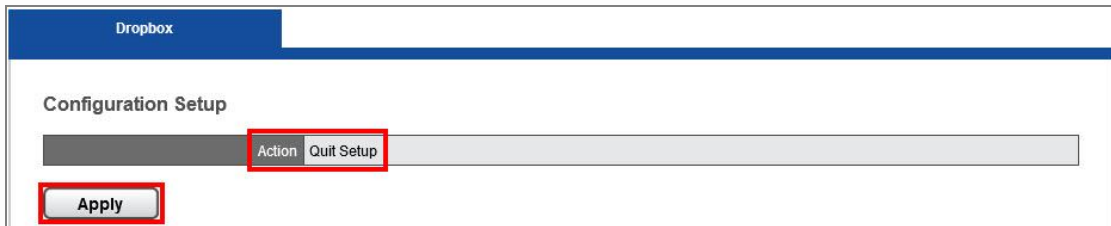
Password:

After successfully connecting with NVR, Dropbox will automatically create a file named "Dropbox".



Quit Setup

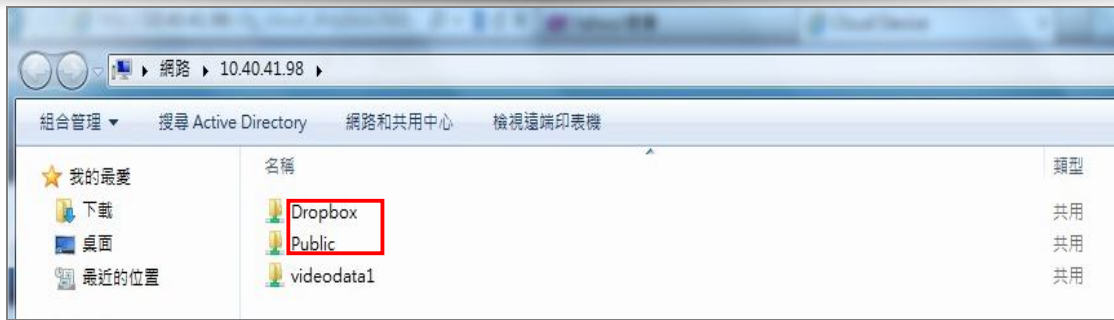
When NVR is accessing to Dropbox, the NVR will display as below:



If users want to cancel the Dropbox setting, please click "**Apply**" to remove setup.

Share Files to Dropbox Server

Users can move the files from **Public** (snapshot, config, etc.) or **Videodata1** (continuous recording, event recording, video clip, etc.) to Dropbox folder in order to share files to the clouds.



Remove Configuration and Online Sync

Please press "F5 button" on the keyboard to refresh the webpage. You can see the webpage as below:

Dropbox Service

Dropbox Advanced Settings

Configuration Setup

Action	Remove Configuration and Data
--------	-------------------------------

Apply

Online Sync

Enabled	<input checked="" type="checkbox"/>	Dropbox Folder
Status	Idle	

Apply

Remove Configuration and Data

Please Click "Apply" to remove Dropbox service from NVR. All configuration and data of Dropbox in NVR will be deleted.

Dropbox Service

Dropbox Advanced Settings

Configuration Setup

Action	Remove Configuration and Data
--------	-------------------------------

Apply

Online Sync

Users can choose whether NVR automatically synchronizes with Dropbox Server.

If users want to enable synchronization, please check "Enable" and click "Apply."

If users want to disable synchronization, please uncheck "Enable" and click "Apply."

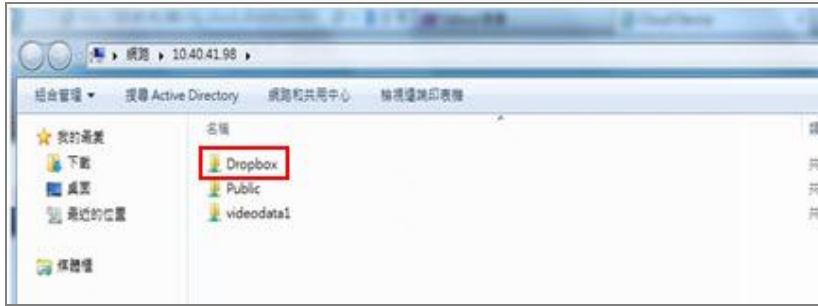
Online Sync

Enabled	<input checked="" type="checkbox"/>	Dropbox Folder
Status	Idle	

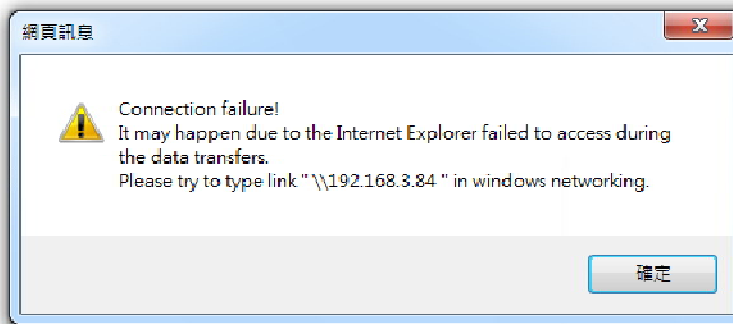
Apply

Dropbox Folder

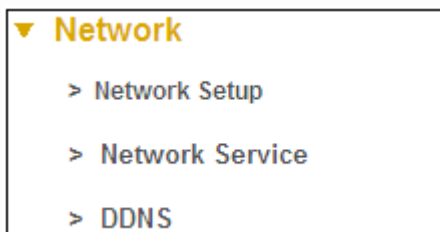
Users can click "Dropbox Folder" to open the folder directly.



A warning will pop up when the folder cannot open. Please enter the same Lan domain as NVR.

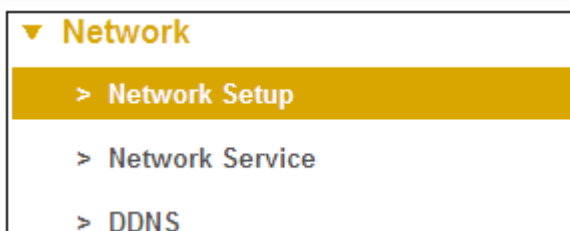


Network Setup



Network Setup

Please select "**Network Setup**" from the drop-down menu of **Network** to begin.



This section explains how to configure network connection with NVR.

Information

Network Setup

Information	Setup	DHCP Setup	Port Setup
LAN 1			
Computer Name	DS201		
IP Address	192.168.1.110		
Subnet Mask	255.255.255.0		
Default Gateway IP Address	192.168.1.1		
Primary Domain Name Server	192.168.1.1		
Secondary Domain Name Server			

Network information displays present network configuration including: Computer Name, IP address, Subnet mask, Default Gateway, Primary and Secondary DNS.

Setup

NVR supports **dual IP application** to connect different network segments to maximize network efficiency. Dual IP application allows users to efficiently communicate between internet and surveillance system. Dual IP application largely increased the resistibility of unauthorized data theft and the unavailability of accessing to cameras. In addition to high security and data protection, NVR makes the management of video surveillance much easier and more flexible.



Shared IP

Network Setup

Information **Setup** DHCP Setup Port Setup

Network Settings

Network Interfaces Shared IP Seperated IP

LAN 1

Computer Name	DS201
Internet Protocol	<input type="radio"/> Obtain an IP address automatically <input checked="" type="radio"/> Specify an IP address
IP Address	192.168.1.110
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

Users can rename **Computer Name** and to assign **DHCP** or **Static IP**.

DHCP: Obtain an available dynamic IP address assigned by a DHCP server. If this option is selected, NVR will automatically obtain an available dynamic IP address from the DHCP server when connecting to the LAN.

- **Static IP:** If no DHCP server exists in the networking environment, the IP address will be given as **192.168.1.245**. It should be sufficient in most network environments, and users can maintain the default IP address or alter IP address in this page. However, it's recommended to set different IP address of NVR if there is more than one NVR in the network.

Separated IP

Network Setup

Information **Setup** DHCP Setup Port Setup

Network Settings

Network Interfaces Shared IP Seperated IP

LAN 1

Computer Name	DS201
Internet Protocol	<input type="radio"/> Obtain an IP address automatically <input checked="" type="radio"/> Specify an IP address
IP Address	192.168.1.110
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

LAN 2

IP Address	192.168.1.110
Subnet Mask	255.255.255.0

Please enter two IP address to in LAN1 and LAN2 to set up different network environments. Please click "**Apply**" to execute the settings.

Port Setup

Please set up transmission port to access NVR. Default port for NVR connection is **80**.

Network Setup

Information Setup DHCP Setup **Port Setup**

Settings

Management Port

Note: Ports: 1234~1362 and some others ports are reserved by system

Network Service

Please select “**Network Service**” from the drop-down menu of **Network** to begin.

▼ **Network**

- > Network Setup
- > **Network Service**
- > DDNS

Black/ White List

Network Service

Black/White List UPnP

Black/White List

Options White List Black List

IP Range to

No.	IP Address	Access	Delete
-----	------------	--------	--------

Edit **White** or **Black List** to **allow** or **block** different IP address.

Black/White List

Options White List Black List

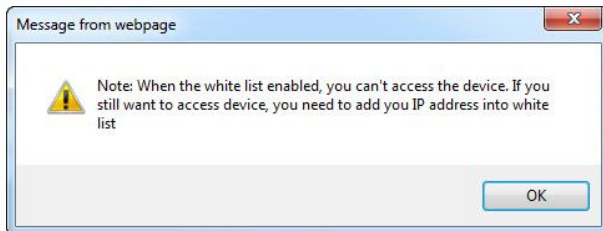
IP Range to

Add

No.	IP Address	Access	Delete
-----	------------	--------	--------

Apply Reset

As White List is enabled, a window will pop up to make sure the execution.



As Black List is enabled, a window will pop up to make sure the execution.




Please enter the IP address range to add to White List or Black List.

White List Black List

192.168.1.10 ← to 192.168.1.20 ←

Add

 **Note:** The above IP address is only an example for reference. User is recommended to add White List or Black List carefully according to different demand. Also, user can set either White List or Black List in the same time.

After the White List or Black List is added, the following information will display the accept access or deny access. You can also delete the list.

White List Black List

_____ to _____

Add

No.	IP Address	Access	Delete
1	192.168.1.10-192.168.1.20	Accept	Del

White List Black List

_____ to _____

Add

No.	IP Address	Access	Delete
1	192.158.1.10-192.158.1.20	Deny	Del

UPnP

Network Service

Black/White List **UPnP**

UPnP

Enabled

UPnP Name (Max. size: 32 characters)

Apply Reset

Enable or disable **UPnP** search.

Rename **UPnP**.

! Note: The maximum character limitation for UPnP Name is **32** characters. Please click "**Apply**" to execute the settings.

DDNS

▼ Network

- > Network Setup
- > Network Service
- > **DDNS**

Please select "**DDNS**" from the drop-down menu of **Network** to begin.

DDNS

Dynamic Domain Name Service

Provider List ipcam.jp nwcam.jp DynDNS no-ip

Enabled	<input type="checkbox"/>
Update Server	<input type="text" value="www.ipcam.jp"/> (Max. size:64 characters)
Username	<input type="text"/> (Max. size:128 characters)
Password	<input type="text"/> (Max. size:64 characters)
Host Name	<input type="text"/> (Max. size:128 characters)

Enabled	<input type="checkbox"/>
Update Server	<input type="text" value="www.nwcam.jp"/> (Max. size:64 characters)
Username	<input type="text"/> (Max. size:128 characters)
Password	<input type="text"/> (Max. size:64 characters)
Host Name	<input type="text"/> (Max. size:128 characters)

DDNS links a domain name to an IP address, allowing users to easily access their camera even with a changing IP address. NVR is compatible with four DDNS service providers (1) ipcam.jp (2) nwcam.jp (3) DynDNS, and (4) No-IP.

⚠️ Note: Before utilizing this function, please apply for a dynamic domain account from a DDNS provider.

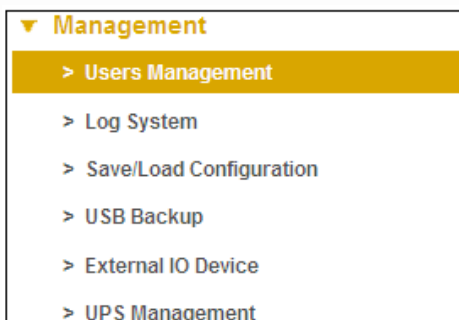
Management

In Management, users can easily create, modify and change users' live view access and playback access. Also, users can read various log information through log system and quickly save or load configuration of NVR. Emergent backup of the latest video files as well as the external input and output control can also be set here.



User Management

Select "**User Management**" from the drop-down menu of **Management** to begin.



NVR can be accessed by multiple users simultaneously. Except the built-in Administrator account (user name "**admin**" and password "**admin**"). Administrator can create other Power User and User accounts. Administrator possesses the highest privilege, compare to Power User and User. And Power User and User can be given different privilege of live view and playback of different channels.

Create User

Please go to Create User page

Power User

Enter a username and password in **"User List"** and select a group from the **"Group"** drop-down list to assign a new **power user**.

Live View Access and Playback Access are selected automatically for Power User.

Users Management

The screenshot shows the 'Create Users' form with the following details:

- User List Table:**

No.	Name	Group	LiveView	PTZ	ID	Multi-Server	Playback
1	Jessie	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
- Create Users Form:**
 - Username: []
 - Password: []
 - Group: Power User (dropdown)
 - Live View Access: (checkboxes for Camera 1-6, Channel 7-25)
 - Playback Access: (checkboxes for Camera 1-6, Channel 7-25)
 - PTZ Control: ID Control: Multi-Server:
- Buttons: Apply, Reset

Click **"Apply"** to add new Power User.

This screenshot shows the same 'Create Users' form as above, but with a 'Please wait....' loading message overlaid on the form fields, indicating that the system is processing the user creation request.

After the Power User is created, user list will display the information as below.

User List									
No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data	
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	

User

Administrator can select a group from "**Group**" drop-down list to assign a new User. Please enter a username and password in "**User List.**" And select Live View Access and Playback Access for the new User.

After User is created, user list will display the information as below.

User List									
No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data	
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	
2	Rita	user	1,5,9,13	O	O	1,5,9,13	O	O	



Modify User

Please go to Modify User page.

Select an account to modify the Power User or User.

User List										
No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data	Delete	
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	[Del]	
2	Rita	user	1,5,9,13	O	O	1,5,9,13	O	O	[Del]	

The selected account will turn to blue and the page for modifying user will appear as below. You can change Live View Access and Playback Access. Please click **"Apply"** to proceed.

Create Users
Modify Users
Change Password
Advanced Settings

User List										
No.	Name	Group	LiveView	PTZ	IO	Multi-server	Playback	Backup Data	Delete Data	Delete
1	Jessie	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	O	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	O	O	[Delete]
2	power user	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	O	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	O	O	[Delete]
3	user1	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	O	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	O	O	[Delete]

Modify Users

Username:

Group:

Live View Access

All

Camera 1 Camera 2 Camera 3 Camera 4

Camera 5 Camera 6 Camera 7 Camera 8

Channel 9 Channel 10 Channel 11 Channel 12

Channel 13 Channel 14 Channel 15 Channel 16

Channel 17 Channel 18 Channel 19 Channel 20

Channel 21 Channel 22 Channel 23 Channel 24

Channel 25

Playback Access

All

Camera 1 Camera 2 Camera 3 Camera 4

Camera 5 Camera 6 Camera 7 Camera 8

Channel 9 Channel 10 Channel 11 Channel 12

Channel 13 Channel 14 Channel 15 Channel 16

Channel 17 Channel 18 Channel 19 Channel 20

Channel 21 Channel 22 Channel 23 Channel 24

Channel 25

PTZ Control IO Control Multi-Server

[Apply]
[Reset]

After User is modified, user list will display the renewed information.

User List										
No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data	Delete	
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	[Del]	
2	Rita	user	1,5	O	O	1,5	O	O	[Del]	

To delete the user account, please click **"Del."** from User List.

Change Password

Each NVR comes with a built-in **“admin”** account with password **“admin”** for administrators. It’s highly recommended to change the password upon the initial login.

Select an account from **“User Name”** drop-down list to change password. Enter a new password in the **“New Password”** and enter it again in **“Retype Password.”** Click **“Apply,”** the password will be changed.

Users Management

Create Users Modify Users **Change Password** Advanced Settings

Password Settings

Username	admin
New Password	<input type="text"/> (Max. size: 15 characters)
Retype Password	<input type="text"/>

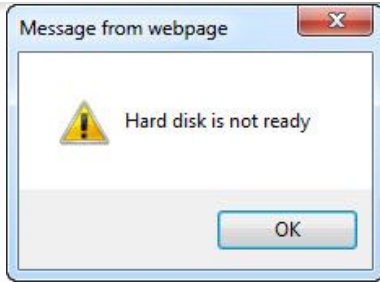
Log System

Please select **“Log System”** from the drop-down menu of **Management** to begin.

▼ **Management**

- > Users Management
- > Log System**
- > Save/Load Configuration
- > USB Backup
- > External IO Device
- > UPS Management

If the hard disk is not installed, the following window will pop up when you click **“Log System.”**



After the hard disk is ready, Log system starts to record the events of the NVR and to provide basic information for troubleshooting. Six types of log record are offered to check: **Hardware Log, NVR Log, Event Log, Current User, Historical User Log, and File Access Log.**

Hardware Log

The log information in Hardware Log includes RAID creation, RAID deletion, RAID modification, CPU, buzzer, fan, system, sensor and USB.

Log System

Hardware Log
NVR Log
Event Log

Current User
History of User Log
File Access Log

Hardware Log List

Date Level Page << < > >> Number of Displays

Date & Time	Level	Message
2014/03/18 12:16:17	notice	[HW] enable buzzer notice.
2014/03/18 12:16:17	notice	[HW] enable fan control.
2014/03/18 12:16:17	info	[HW] System is starting to work.
2014/03/18 10:43:14	notice	[HW] enable buzzer notice.
2014/03/18 10:43:14	notice	[HW] enable fan control.
2014/03/18 10:43:14	info	[HW] System is starting to work.
2014/03/10 16:32:35	notice	[HW] enable buzzer notice.
2014/03/10 16:32:35	notice	[HW] enable fan control.
2014/03/10 16:32:35	info	[HW] System is starting to work.
2014/03/08 00:09:03	notice	[HW] USB Backup.
2014/03/07 22:17:34	notice	[HW] enable buzzer notice.
2014/03/07 22:17:34	notice	[HW] enable fan control.
2014/03/07 22:17:34	info	[HW] System is starting to work.
2014/02/27 11:32:16	notice	[HW] enable buzzer notice.
2014/02/27 11:32:16	notice	[HW] enable fan control.

NVR Log

The log information in NVR Log includes time zone, daylight, system, firmware upgrading, configuration IP, recording files export, and storage.

Log System

Hardware Log **NVR Log** Event Log

Current User History of User Log File Access Log

NVR Log

Date: All Level: All Page: 1 << < > >> Number of Displays: 20 Save

Date & Time	Level	Account	IP Address	Message
2014/04/09 11:32:07	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/04/09 11:31:53	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/04/02 14:33:33	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/04/02 14:33:19	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/31 09:59:51	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/31 09:59:37	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/28 17:07:26	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/28 16:59:04	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/28 16:41:42	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/28 12:00:00	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/28 11:59:45	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/27 17:34:34	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/27 17:34:20	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/20 17:17:23	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected
2014/03/20 17:17:06	info	SYSTEM	LocalHost	[NVR] network eth1 is disconnected

Event Log

The log information in Event Log includes "Camera is connected," "The camera is disconnected," "Digital Input," "Motion detected" and "Storage usage is out of limit," etc.

Log System

Hardware Log NVR Log **Event Log**

Current User History of User Log File Access Log

Event Log

Date: All Level: All IP Cam: All Page: 1 << < > >> Number of Displays: 20 Save

Date & Time	Level	Number	Message
2014/04/09 11:32:35	notice	2	[Event] Camera is connected.
2014/04/09 11:32:31	notice	1	[Event] Camera is connected.
2014/04/09 11:31:56	notice	2	[Event] Camera is disconnected.
2014/04/03 18:33:51	notice	3	[Event] Camera is disconnected.
2014/04/02 14:34:03	notice	2	[Event] Camera is connected.
2014/04/02 14:34:03	notice	3	[Event] Camera is connected.
2014/04/02 14:33:50	notice	1	[Event] Camera is disconnected.
2014/04/02 14:33:40	notice	1	[Event] Camera is connected.
2014/04/02 14:33:23	notice	1	[Event] Camera is disconnected.
2014/04/02 14:33:23	notice	2	[Event] Camera is disconnected.
2014/04/02 14:33:22	notice	3	[Event] Camera is disconnected.
2014/04/02 09:52:34	notice	1	[Event] Camera is connected.
2014/04/02 09:43:43	notice	3	[Event] Camera is connected.
2014/04/02 04:12:11	notice	1	[Event] Camera is disconnected.
2014/04/02 04:08:39	notice	1	[Event] Camera is connected.

Current User

The log information in Current User shows the current users logged in the

NVR with IP address.

Log System

Hardware Log NVR Log Event Log

Current User History of User Log File Access Log

Current User

Date & Time	Account	IP Address	Message
2014/04/14 10:27:35	admin	192.168.1.108	[CurUSER] Access /cfg_management_log_currentuser.htm

Historical User Log

The log information in Historical User Log records any user who has logged in the NVR. For example, "Execute detect," "Motion detected," "FTP service is configured," "Account is created," "Execute system shutdown," etc.

Log System

Hardware Log NVR Log Event Log

Current User **History of User Log** File Access Log

History of User Log

Date: All Level: All Page: 1 << < > >> Number of Displays: 20 Save

Date & Time	Level	Account	IP Address	Method	Message
2014/04/14 10:27:35	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/14 10:27:34	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/14 10:27:34	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/10 17:31:15	info	admin	192.168.1.108	HTTP	[USER] Account [user1] is created.
2014/04/10 17:30:45	info	admin	192.168.1.108	HTTP	[USER] Account [power user] is created.
2014/04/10 16:50:44	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/10 16:50:43	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/10 16:50:43	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/10 16:37:18	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/10 16:37:17	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/10 16:37:17	info	admin	192.168.1.108	HTTP	[USER] Login
2014/04/03 18:46:30	info	admin	192.168.1.107	HTTP	[USER] Enable FTP service.
2014/04/03 18:45:09	info	admin	192.168.1.107	HTTP	[USER] Disable FTP service.
2014/04/03 18:34:19	info	admin	192.168.1.107	HTTP	[USER] Login

File Access Log

The message occurred is related to other methods to get in DIGISTOR such as SAMBA or FTP.

Log System

Hardware Log NVR Log Event Log

Current User History of User Log **File Access Log**

System Connection Log

Date: All Level: All Page: 1 << < > >> Number of Displays: 20 Save

Date & Time	Level	Account	IP Address	Method	Message	Status
2013/11/04 10:04:22	info	admin	192.168.0.100	SAMBA	[SYSCON] Login	Pass
2013/10/24 20:41:29	info	admin	192.168.0.100	SAMBA	[SYSCON] Login	Pass
2013/10/24 19:10:42	info	admin	192.168.0.100	SAMBA	[SYSCON] Login	Pass
2013/10/24 15:00:00	info	admin	192.168.0.100	SAMBA	[SYSCON] max/motionct	Access
2013/10/24 14:59:29	info	admin	192.168.0.100	SAMBA	[SYSCON] Login	Pass
2013/06/18 19:38:19	info	admin	192.168.1.100	FTP	[SYSCON] /mnt/disk1/Videodata1/RecordFolder20130521/20130521-182500-183000_192.168.1.169-CH1.avi	transfer
2013/06/18 19:38:16	info	admin	192.168.1.100	FTP	[SYSCON] /mnt/disk1/Videodata1/RecordFolder20130521/20130521-182500-183000_192.168.1.165-CH2.avi	transfer
2013/06/18 19:38:07	info	admin	192.168.1.100	FTP	[SYSCON] /mnt/disk1/Videodata1/RecordFolder20130521/20130521-182000-182500_192.168.1.174-CH3.avi	transfer
2013/06/18 19:37:58	info	admin	192.168.1.100	FTP	[SYSCON] /mnt/disk1/Videodata1/RecordFolder20130521/20130521-182000-182500_192.168.1.173-CH4.avi	transfer

Export the log files

Users can export and save log files from Log System page. And each log types correspond to one log file.

The log content can be saved as html or txt format.

Log System

Hardware Log NVR Log Event Log

Current User History of User Log File Access Log

Hardware Log List

Date: All Level: All Page: 1 << < > >> Number of Displays: 20 Save

Date & Time	Level	Message
2014/03/18 12:16:17	notice	[HW] enable buzzer notice.
2014/03/18 12:16:17	notice	[HW] enable fan control.
2014/03/18 12:16:17	info	[HW] System is starting to work.
2014/03/18 10:43:14	notice	[HW] enable buzzer notice.
2014/03/18 10:43:14	notice	[HW] enable fan control.

Save/Load Configuration

Please select "Save/Load Configuration" from the drop-down menu of Management to begin.

- ▼ Management
 - > Users Management
 - > Log System
 - > **Save/Load Configuration**
 - > USB Backup
 - > External IO Device
 - > UPS Management

If the raid disk is not built, the following window will pop up.




Save Configuration

A screenshot of the 'Save Configuration' window. The window has two tabs: 'Save Configuration' (active) and 'Load Configuration'. The main content area is titled 'Save Configuration' and contains a table with the following fields:

Volume	/dev/md0
Folder	Public
File Name	<input type="text"/> .cfg
Notice	Save configuration will just save Camera Settings, Recording Settings, Event & Action Settings, E-Mail Settings, and Server Settings.

At the bottom of the form, there are two buttons: 'Apply' and 'Reset'.

Select Volume and Folder to save configuration in a format of cfg file and specify the File Name.

 Notice: Save configuration will just save Camera Setting, Recording Settings, Event & Action Setting, E-Mail settings, and Server Settings.

The configuration file is saved in NVR's Public folder, where users can find from Windows Networking or FTP service.

Load Configuration

Save/Load Configuration

Save Configuration **Load Configuration**

Load Configuration

Load Types	<input checked="" type="radio"/> Load Default Settings <input type="radio"/> Load Configuration
Volume	/dev/md0
Folder	Public
File Name	<input type="text"/> .cfg
Notice	Load configuration will just load Camera Settings, Recording Settings, Event & Action Settings, E-Mail Settings, and Server Settings.

Load configuration can help users duplicate the same settings from one NVR to another without configuring system manually. Users can select Load Type as "**Load Default Settings**" or "**Load Configuration.**"

Once you select "Load Default Settings" and click "Apply," configuration of Camera Setting, Recording Settings, Event & Action Setting, E-Mail settings, and Server Settings will change to default.

When select "**Load Configuration,**" please browse the NVR folder to find the saved configuration. Once file name displayed, click "**Apply**" to load configuration.

USB Backup

Users can preset the latest duration and channels of USB Backup button on Remote Web Browser for quick backup the latest video files locally in the future. With USB Backup button setting, when users insert **USB device** or **USB type DVD burner** into the USB port in the NVR (front panel backup area) and press "**USB BACKUP**" for 3 seconds, NVR will execute USB backup and the latest video files will be duplicated.

During the backup process, USB LED indicator will blink with blue light. When the NVR finished duplicating the data to the USB device, the blue light will fade away.

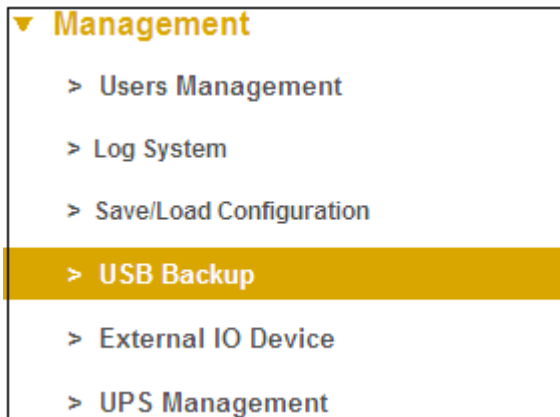
 **Note:** If any error occurs, including USB Backup function not enabled ,



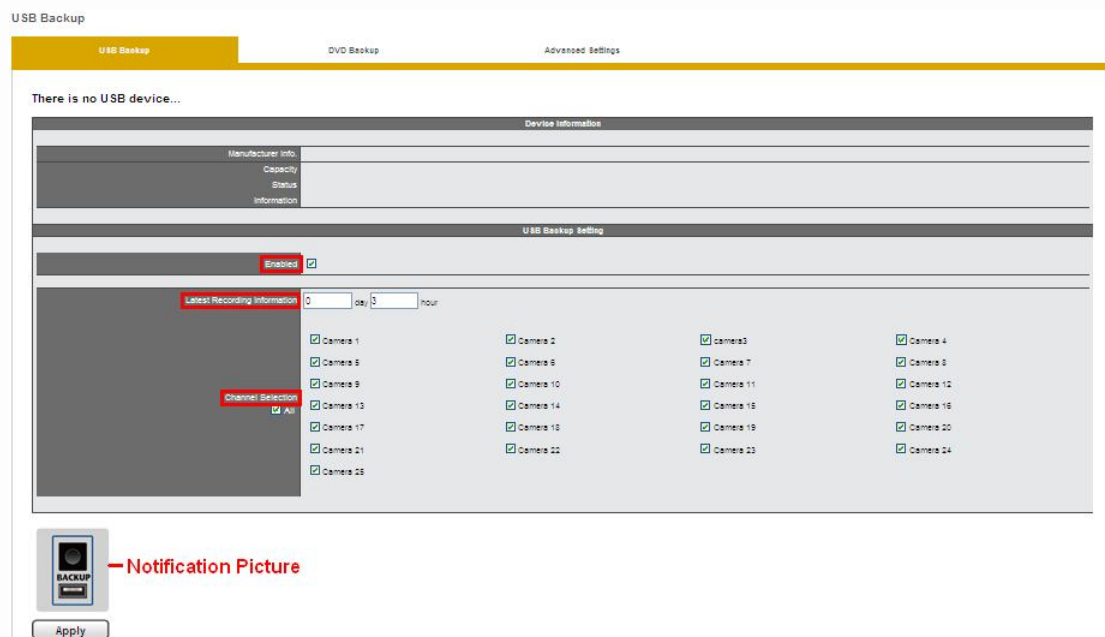
USB LED indicator will show red to warn.

Note: USB device format should be FAT32 file system.

To enable the USB Backup button function and to setup the USB Backup button's channels and the latest time duration for future duplication, please select **"USB Backup"** from the drop-down menu of **Management**



USB Backup Button Setting in Remote Web Browsers



Enable : USB Backup button function can be enabled or disabled, for security concern.

The latest duration of recordings: Users can set a maximum of days and hours to backup the latest video files.

Channel Selection: Users can select certain camera channels or click **"All"** channels for future backup.

Apply: Please click **"Apply"** to finish configuration.



Note: Notification Picture is designed to notify users of the location of USB Backup port.

After finishing setup, users can insert a USB device or USB type DVD burner to the local NVR to backup the latest video files.

USB Backup

When a USB device is inserted to the NVR, the USB Backup Device Information in Remote Browser will show the status "**Wait... .**" When the USB is ready to begin, the Device Information will show the status "**Ready,**" and the USB LED indicator will show blue. When NVR is in backup progress, the Device Information will show the status "**Working,**" and the information "**Copying: ...files.**" If you need to delete the current data in USB, please click "**Format**" to delete the current data of USB.

USB Backup


Device Information	
Manufacture Info.	Model: SA02G Rev: PMAP
Capacity	1912 MBytes
Status	Wait...
Information	

USB Backup

Device Information	
Manufacture Info.	Model: SA02G Rev: PMAP
Capacity	1912 MBytes (Remaining:1059 MBytes)
Status	Ready
Information	<input type="button" value="Format"/>

USB Backup

Device Information	
Manufacturer Info.	JetFlash Model: Transcend 8GB Rev. 1100
Capacity	7788 MBytes
Status	Working...
Information	Copying: 0/11 files

 **Note:** If there is no USB inserted into NVR, the screen will show **“There is no USB device...”**

USB Backup

Device Information	
Manufacture Info.	
Capacity	
Status	
Information	

There is no USB device...

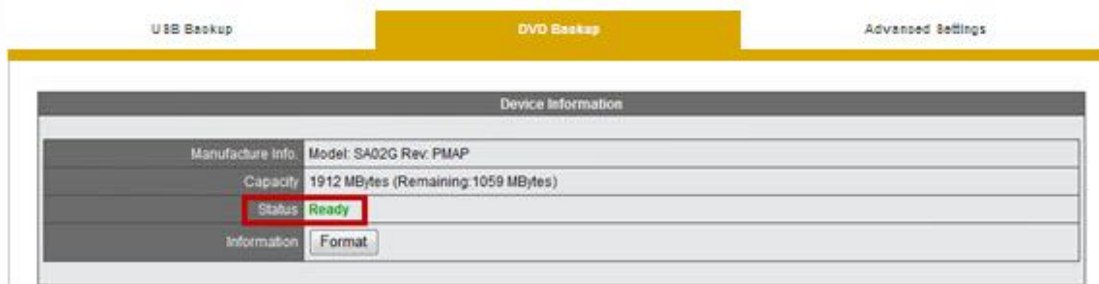
Note: NVRPlayer and NVRCheck will be downloaded with video files.


USB Type DVD Burner

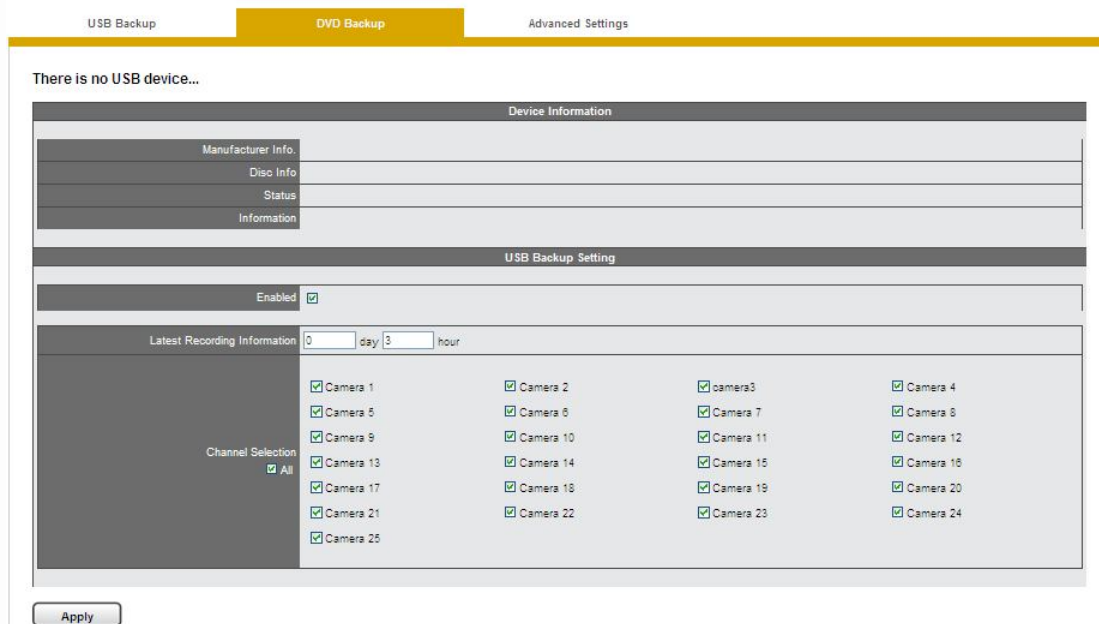
When a USB type DVD burner is inserted to NVR, the USB Backup Device Information in Remote Browser will show the status **“Wait... .”** When the USB type DVD burner is ready to begin, the Device Information will show the status **“Ready,”** and the USB LED indicator will show blue. If you need to delete the current data in USB type DVD burner, please click **“Format”** to delete current data.

DVD Backup

Device Information	
Manufacture Info	Model: SA02G Rev. PMAP
Capacity	1912 MBytes
Status	Wait...
Information	



 **Note:** If there is no USB type DVD burner inserted into NVR, the screen will show "There is no USB device..."



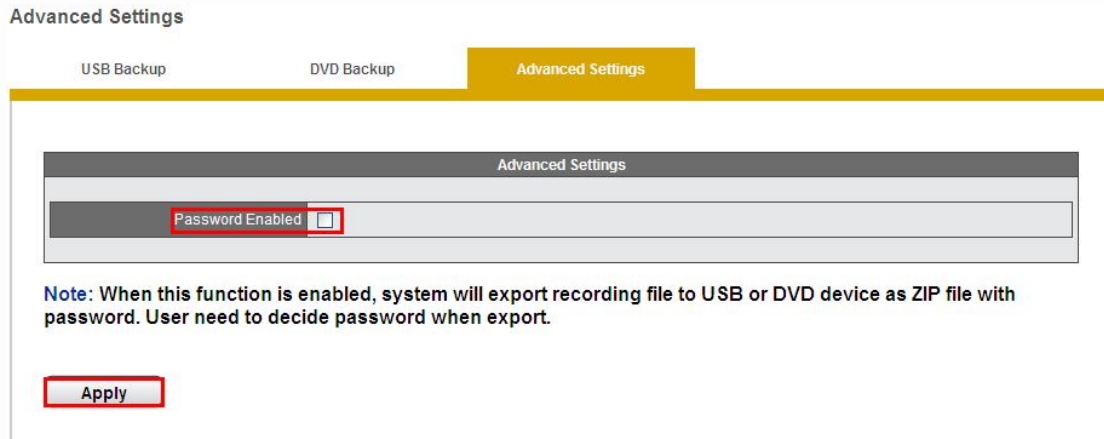
 **Note:** NVRPlayer and NVRCheck will be downloaded with video files.

Advance Settings

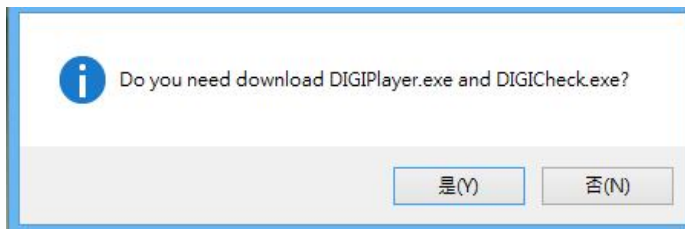
Encryption of Exported Files

Users can encrypt exported files to USB or DVD devices as ZIP files in remote playback. Users need to decide password when exporting files in remote playback.

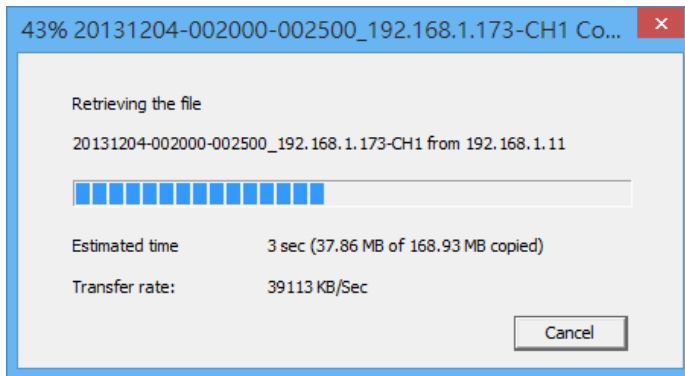
Please enable the function and click "**Apply**" to finish the setting.



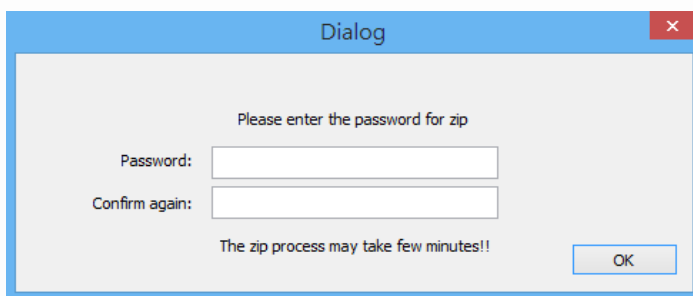
A window will pop up after users click export button in remote playback page.



Then a window will pop up to display download status.



After successfully export files, a window will pop up to ask users to enter password for encryption.



External IO Device

Please select **“External IO Device”** from the drop-down menu of **Management** to begin.

▼ **Management**

- > Users Management
- > Log System
- > Save/Load Configuration
- > USB Backup
- > **External IO Device**
- > UPS Management

External IO Device

Device Settings Device Event

Device Settings

Device Number	Device 1				
Device Name	<input type="text"/>				
IP Address	<input type="text"/>	Port	80	<input type="text"/>	
Username	<input type="text"/>	Password	<input type="text"/>		
Vendor	<input type="text"/>	Model	<input type="text"/>		

Device List

No.	Device Name	IP Address	Port	Vendor	Model	Delete
1			80			

Enter necessary information to add devices manually, including: **Device Name, IP Address, User Name and Password.**

Click **“Detect”** to check whether connection is successful or not.

Please click **“Apply”** to finish the setting. "Vender" and "Model" will show up automatically, if detectable.

Camera List shows all available device information including: **Camera Name, IP Address, Port, Vender and Model.**

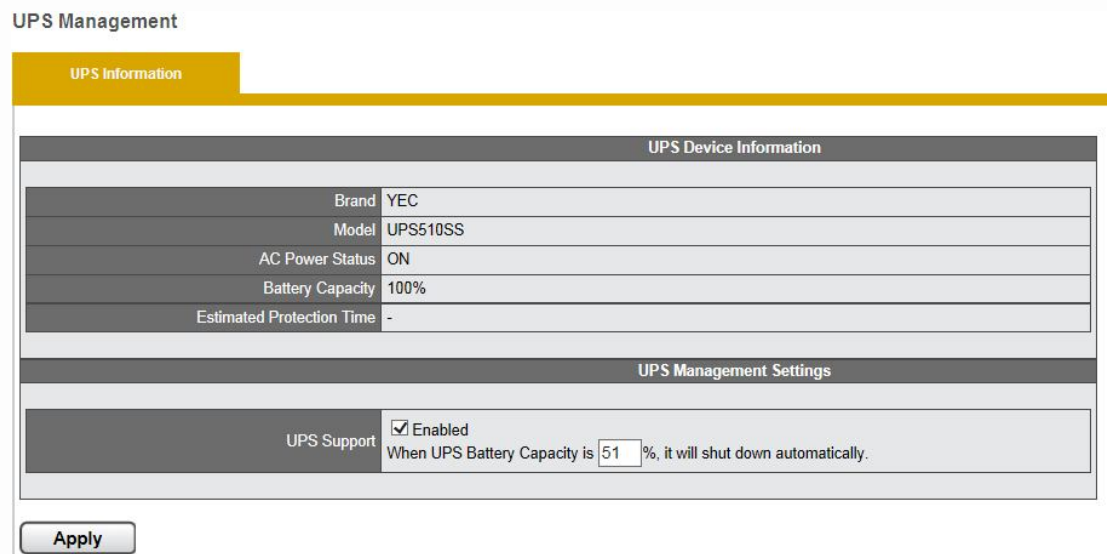
Also, **Device Event** will show the event originally set in the device.

UPS Management

Please select “**UPS Management**” from the drop-down menu of **Management** to begin.



UPS (Uninterruptible Power Supply) is designed to provide emergency power for unexpected power outage.



Note: YEC UPS device is supported by NVR.

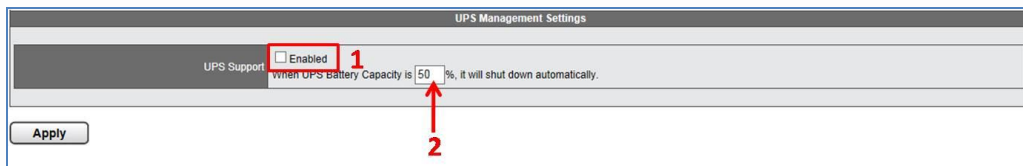
UPS Device Information

Users can obtain basic UPS information from UPS device information, including brand, model, AC power status, battery capacity and estimated protection time.

Estimated protection time allows users to realize the estimated time to progress regular monitoring.

UPS Management Settings–Smart Shutdown and Backup
Smart Shutdown and Startup feature can maintain usual surveillance performance when users encounter power outage.

Please enable UPS Support. Then, fill in numbers to automatically shutdown or startup NVR



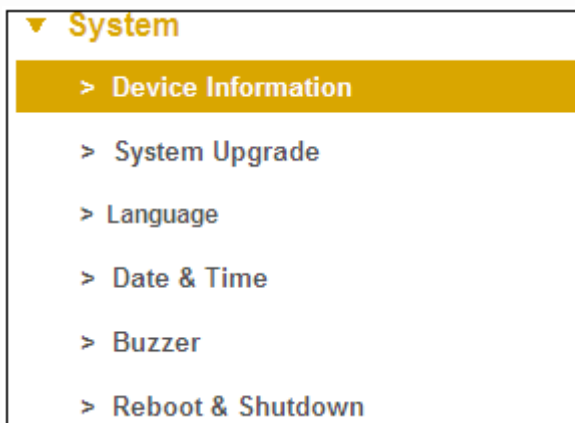
With Smart Shutdown and Startup, users can set up when to automatically shut down NVR (Sleep Mode). Once UPS battery is over the percentage of capacity, NVR will start up automatically.

System



Device Information

Please select "**Device Information**" from the drop-down menu of **System** to begin.



System Information

System Information shows Operating System, OS Version, NVR Version, CPU, Network Adapter, MAC Address, and Network Flow.

Locate

Click "Locate", the NVR buzzer will be triggered for 3 seconds. It helps the user to locate the NVR.

Device Information

System Information Enclosure Information

Information

Product Model	NVR-4225 Pro
Firmware Version	2.1.6.51-rc2
MAC Address	20:10:7a:8fb5:dc, 20:10:7a:8fb5:dd
Operating System	Embedded Linux
OS Version	Linux version 3.2.29
CPU	Intel(R) family
Network Adapter	Gigabit Ethernet Card 10/100/1000 Mbps
Locate	<input type="button" value="Locate"/>

Enclosure Information

Device Information

System Information **Hardware Monitor**


Temperatures

CPU Temperature	41 °C
VRM Temperature	45 °C
System Temperature	37 °C

Fan Speed

CPU Fan	1363 RPM
System Fan 1	858 RPM
System Fan 2	1527 RPM

Enclosure Information shows **CPU Temperature** and **System Fan Speed**.

 **Note:** Temperature of operation environment for NVR is 0~40°C.

System Upgrade

Users can do NVR firmware upgrade via **Remote Web Browser** (Windows IE/Chrome/Opera browser) or **Local Display** (connect directly to a local monitor via HDMI, DVI or VGA connector).

Note: Please make sure the NVR model and the firmware version are correct.

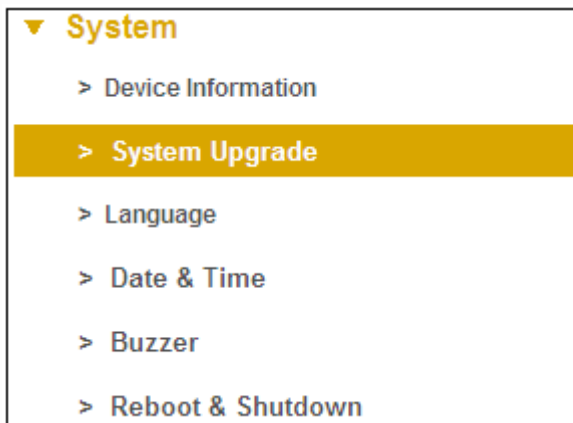
Note: Please **upgrade** firmware version **one by one** to ensure the stability of NVR.

Upgrade via Remote Web Browser (Windows IE / Chrome / Firefox / Opera browser)

Download latest firmware file from Brickcom website www.brickcom.com
Brickcom offers new firmware for NVR to update functions. Please download the latest firmware from the Brickcom website www.brickcom.com and save the firmware file to a local computer.

Completely unzip the file

Go to "Configuration" page → Select drop-down menu of "System" → "System Upgrade" to begin.



Press "**Browse**" to find the latest firmware

After downloading the firmware file, users can upgrade new firmware from a folder of local computer and browse the folder to upload it.

System Upgrade

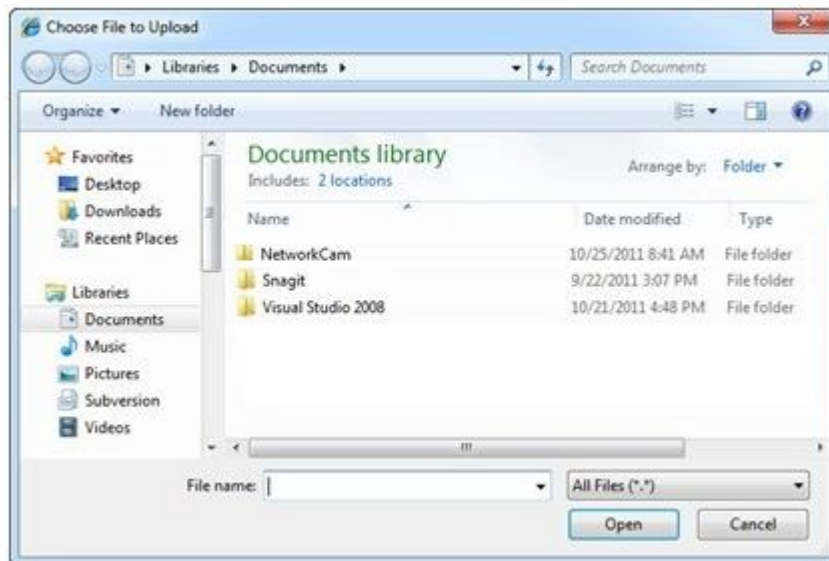
Firmware Upgrade

Firmware Upgrade

File to upload 瀏覽...

Upgrade

A window will pop up to ask for the folder to upload the firmware.



Click **“Upgrade”**

After selecting the file, please click **“Upgrade”** to renew the NVR.

System Upgrade

Firmware Upgrade

Firmware Upgrade

File to upload 瀏覽...

Upgrade

Once system upgrade is finished, NVR will reboot itself.

Users could go to **“Device Information”** from the drop down list of **“System”** so as to double check NVR firmware version.

System Information Enclosure Information

System

- > Device Information
- > System Upgrade
- > Language
- > Date & Time
- > Buzzer
- > Reboot & Shutdown

Information

Product Model	NVR-4226 Pro
Firmware Version	2.1.8.51-rc2
MAC Address	20-10-7a-8fb5-dc, 20-10-7a-8fb5-dd
Operating System	Embedded Linux
OS Version	Linux version 3.2.29
CPU	Intel(R) family
Network Adapter	Gigabit Ethernet Card 10/100/1000 Mbps
Locate	<input type="button" value="Locate"/>

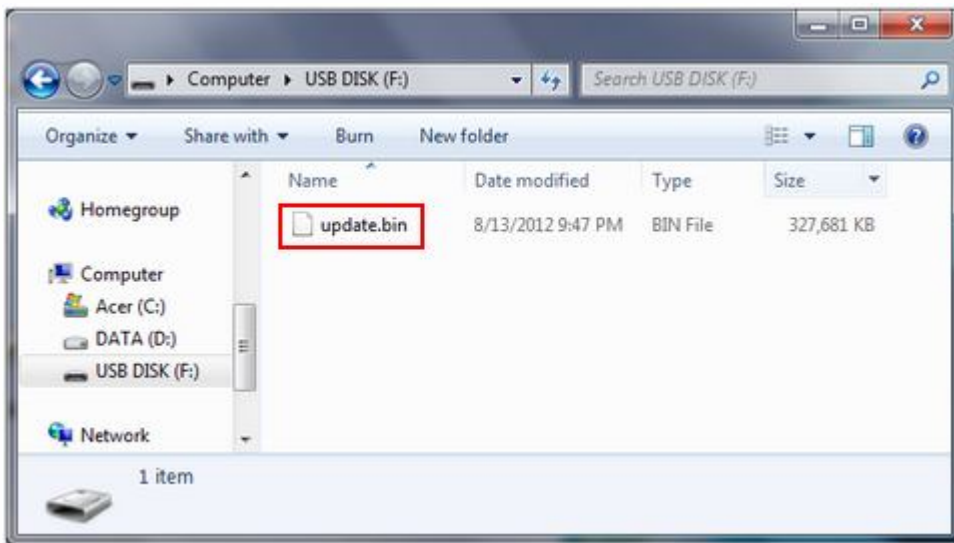


Upgrade via Local Display (directly connect to a local monitor via HDMI, DVI or VGA connector)

Download latest firmware file from Brickcom website www.brickcom.com
Brickcom offers new firmware for NVR to update functions. Please download the latest firmware from the Brickcom website www.brickcom.com and save the firmware file to a local computer.

Completely unzip the file, and save it to USB device

Please save the file to your USB device after downloading and unzipping the firmware.



⚠ Note: To recognize the USB device well, please **format the USB device to FAT32 file system** first, and make sure you delete all other files and keep only "update.bin")

Instructions to format a USB device to FAT32 file system:

Click on the "My Computer" shortcut on the desktop of your computer

Right-click the flash drive and choose the "Format" option

Change the selection under "File System" to FAT32

Click the "Start" button to begin the formatting process

Connect NVR to a monitor and insert USB device to the port of NVR

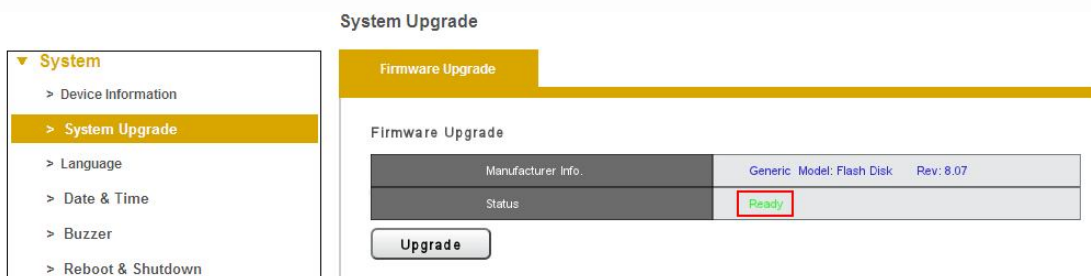
To start local display upgrade, please connect NVR to a monitor (via HDMI or VGA)

and insert USB device to the USB port of NVR.

Power on the monitor and NVR , and log in NVR.

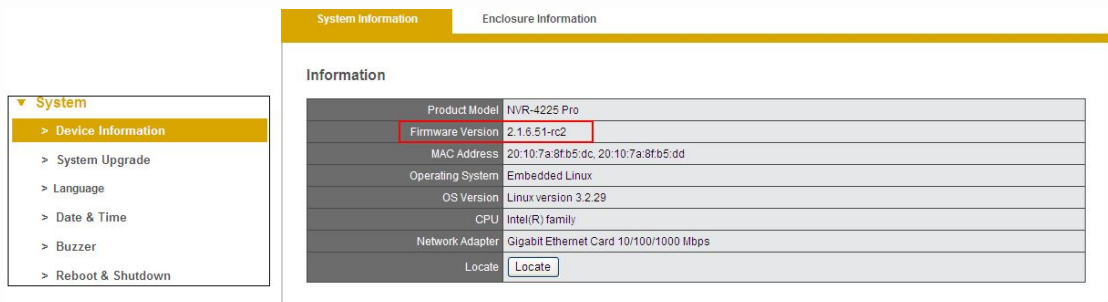
Go to "Configuration" page, and then select "System Upgrade". When the interface

shows device is 'ready', you can start upgrading NVR.



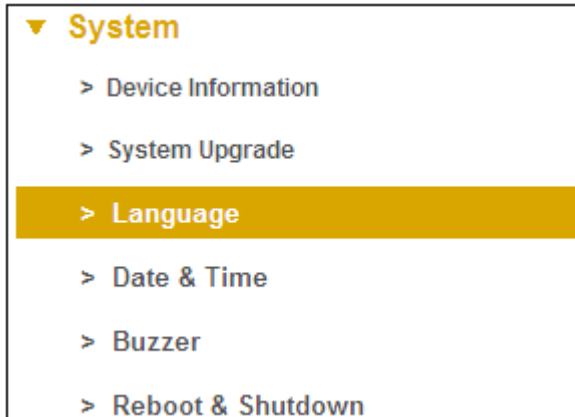
Once firmware upgrade finishes, NVR will reboot itself.

Users could go to "Device Information" from the drop down list of "System" so as to double check NVR firmware version.



Language

Please select “**Language**” from the drop-down menu of **System** to begin.



NVR provides different languages for users. Users can configure the language as **AUTO** or other languages.

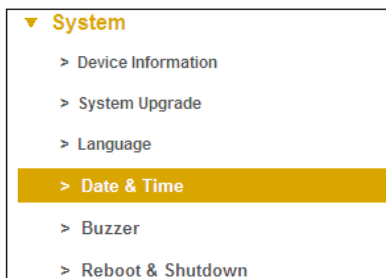
Language



Please click “**Apply**” and the language will be changed.

Date & Time

Please select “**Date & Time**” from the drop-down menu of **System** to begin.



Set up

Date & Time

Setup		Time Zone	
Date & Time			
Year	2014		
Month	4		
Day	17		
Time	17	43	30
<input type="button" value="Apply"/> <input type="button" value="Reset"/>			

Select from the drop-down list and configure the time manually and the setting will be effective when you click "**Apply**".

Time zone

Date & Time

Setup		Time Zone	
Time Zone Setup			
Time Zone	(GMT+08:00)Taiwan		
	<input type="checkbox"/> Automatically adjust clock for Daylight Saving Time		
Synchronize with external NTP server	time.stdtime.gov.tw		
NVR built-in NTP server	192.168.1.110		
<input type="button" value="Apply"/> <input type="button" value="Reset"/>			

Set the time and date according to the correct time zone and adjust clock for daylight saving changes for your preference.

Please enter the hostname of a valid NTP server.

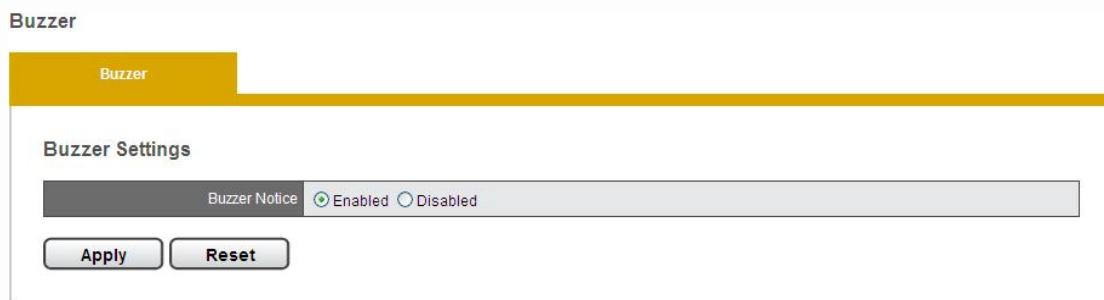
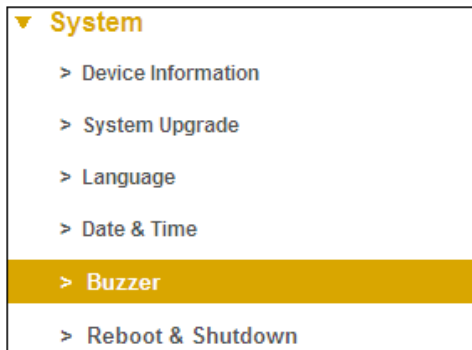
Built-in NTP server in NVR

Time Zone Setup	
Time Zone	(GMT+08:00)Taiwan
	<input type="checkbox"/> Automatically adjust clock for Daylight Saving Time
Synchronize with external NTP server	time.stdtime.gov.tw
NVR built-in NTP server	192.168.1.83

NVR provides the NTP server function for client device to synchronize the time clock. It helps to maintain the same time schedule in surveillance system. The built-in NTP server address follows NVR IP address.

Buzzer

Please select “**Buzzer**” from the drop-down menu of **System** to begin.



Select “**Enable**” or “**Disable**” to set Buzzer Notice

Once the buzzer notice is disabled, the buzzer action of digital output will not be performed.

Note: To stop the buzzer sound, user can press “**USB BACKUP**” button on the front panel of NVR for one second.

Reboot & Shutdown

Please select “**Reboot & Shutdown**” from the drop-down menu of **System** to begin.



Reboot & Shutdown

Options

Reboot

Shutdown

Click "**Reboot**" to restart the NVR.

Click "**Shutdown**" to turn off the NVR.

