DIGISTOR

Network Video Recorder

User Manual

1.0.0.13

September, 2013

Table of Contents

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.

1.1 Hardware Description

1.1.1 DS-2000 Series

DS-2005/DS-2009/DS-2012/DS-2016

Figure 1-1. Front & Rear View of DS-2000 Series

1. Figure LED indicators: LAN, eSATA, HDD1, HDD2
2. Power button
3. USB BACKUP button- Auto video backup
4. USB 2.0 X1 (Support auto video backup)
5. HDD1
6. HDD2
7. Gigabit LAN
8. USB 2.0 x 2
9. eSATA x 2 (reserved)
10. DI/DO (4 in 2 out)

    Top to bottom: Vcc5V, GND, DI-1, DI-2, DI-3, DI-4, DO-1, DO-2

11. Reset button
12. Power connector
13. K-lock security slot

1.1.2 DS-4000 Series

DS-4005/DS-4009/DS-4012/DS-4016

Figure 1-2. Front & Rear View of DS-4000 Series

1. LED indicators: LAN, eSATA, HDD1, HDD2, HDD3, HDD4
2. Power button
3. USB BACKUP button- Auto video backup
4. USB 2.0 x 1 (Support auto video backup)
5. HDD1
6. HDD2
7. HDD3
8. HDD4
9. Gigabit LAN
10. USB 2.0 x 2
11. eSATA x 2 (reserved)
12. DI/DO (4 in 2 out)

    Top to bottom: Vcc5V, GND, DI-1, DI-2, DI-3, DI-4, DO-1, DO-2
13. Reset button
14. Power connector
15. K-lock security slot

1.1.3 DS-1100 Pro Series

DS-1105 Pro/DS-1109 Pro/DS-1112 Pro/DS-1116 Pro/DS-1120 Pro/DS-1125 Pro

Figure 1-3. Front & Rear View of DS-1100 Pro Series

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

1.1.4 DS-2100 Pro Series

DS-2105 Pro/DS-2109 Pro/DS-2112 Pro/DS-2116 Pro/DS-2120 Pro/DS-2125 Pro

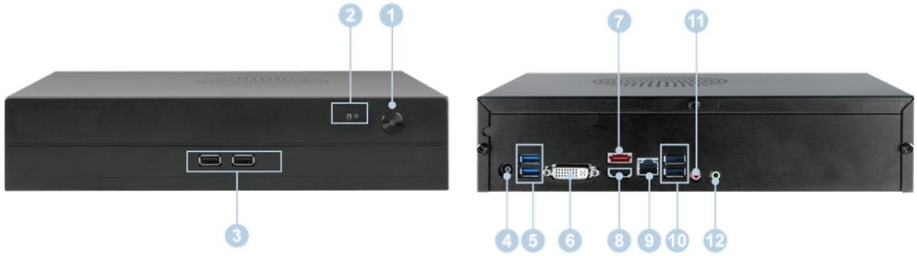


Figure 1-4. Front & Rear View of DS-2100 Pro Series

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

1.1.5 DS-4200 Pro Series

DS-4205 Pro/DS-4209 Pro/DS-4212 Pro/DS-4216 Pro/DS-4220 Pro/DS-4225 Pro/DS-4232 Pro

Figure 1-5. Front & Rear View of DS-4200 Pro Series

1. LED indicators: LAN1, LAN2, eSATA, HDD1, HDD2, HDD3, HDD4
2. Power button
3. USB BACKUP button - Auto video backup
4. USB 2.0 x 1 (Support auto video backup)
5. USB 2.0 x 1
6. HDD1
7. HDD2
8. HDD3
9. HDD4
10. Gigabit LAN x 2
11. USB 2.0 x 4
12. eSATA x 2 (reserved)
13. VGA output
14. HDMI output
15. DI/DO (4 in 2 out)

     Top to bottom: Vcc5V, GND, DI-1, DI-2, DI-3, DI-4, DO-1, DO-2
16. Reset button
17. Power connector
18. K-lock security slot

1.1.6 DS-8200-RM Pro Series

DS-8209-RM Pro/ DS-8212-RM Pro/ DS-8216-RM Pro/ DS-8220-RM Pro/ DS-8225-RM Pro/DS-8232-RM Pro

Figure 1-64. Front & Rear View of DS-8200-RM Pro Series

1. LED indicators: LAN1, LAN2, eSATA, HDD1, HDD2, HDD3, HDD4, HDD5, HDD6, HDD7, HDD8
2. Power button
3. USB BACKUP button - Auto video backup
4. USB 3.0 x 1 (Support auto video backup)
5. HDD1
6. HDD2
7. HDD3
8. HDD4
9. HDD5
10. HDD6
11. HDD7
12. HDD8
13. Gigabit LAN x 2
14. USB 2.0 x 4
15. eSATA x 2 (reserved)
16. VGA output
17. HDMI output
18. DI/DO (4 in 2 out)

     Right to left: Vcc5V, GND, DI-1, DI-2, DI-3, DI-4, DO1, DO2
19. Reset button
20. Power connector

1.2 LED Indicators Status

1.2.1 DS-2000 Series

DS-2005/DS-2009/DS-2012/DS-2016

Figure 1-5. DS-2000 Series Front Panel & RJ-45 Port

LED on Front Panel

LED	LED Color & Status	Indicate
LAN	Off	LAN Link is not established
	Orange	LAN Link is established
	Orange blinking	LAN is being accessed
eSATA	Off	No data transmission
	Orange blinking	The eSATA device is being accessed
HDD1 HDD2	Off	Hard disk drive device is not established
	Green	Hard disk drive is ready to be accessed
	Green blinking	Hard disk drive data is being accessed
	Red blinking	Hard disk drive error occurs (Blinking with 0.5Hz)
	Red	Hard disk drive failure and need to be removed
Power	Off	Power Off
	Green	Power On
	Red	System error occurs
BACKUP	Off	USB device is not detected
	Blue	USB device is ready
	Blue blinking	NVR data is being copied to the USB device (Blinking with 1Hz)
	Red	Backup error occurs

LED on RJ-45 Port on Rear Panel

LED	LED Position	LED Status	Indicate
LAN	Link/Activity (Right LED)	Off	LAN Link is not established
		Yellow	LAN Link is established
		Yellow blinking	LAN Activity is occurring
LAN	Speed (Left LED)	Off	10M/100Mbps connection or no connection
		Orange	1000Mbps connection

Note:

**USB BACKUP will beep and process after long pressing BACKUP button for 3 seconds.

**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.

1.2.2 DS-4000 Series

DS-4005/DS-4009/DS-4012/DS-4016

Figure 1-6. DS-4000 Series Front Panel & RJ-45 Port

LED on Front Panel

LED	LED Color & Status	Indicate
LAN	Off	LAN Link is not established
	Orange	LAN Link is established
	Orange blinking	LAN is being accessed
eSATA	Off	No data transmission
	Orange blinking	The eSATA device is being accessed
HDD1 HDD2 HDD3 HDD4	Off	Hard disk drive device is not established
	Green	Hard disk drive is ready to be accessed
	Green blinking	Hard disk drive data is being accessed
	Red blinking	Hard disk drive error occurs Blinking with 0.5Hz
	Red	Hard disk drive failure and need to be removed
Power	Off	Power Off
	Green	Power on and NVR System is ready
	Red	System error occurs
BACKUP	Off	USB device is not detected
	Blue	USB device is ready
	Blue blinking	NVR data is being copied to the USB device (Blinking with 1Hz)
	Red	Backup error occurs

LED on RJ-45 Port on Rear Panel

LED	LED Position	LED Status	Indicate
LAN	Link/Activity (Right LED)	Off	LAN Link is not established
		Yellow	LAN Link is established
		Yellow blinking	LAN Activity is occurring
LAN	Speed (Left LED)	Off	10M/100Mbps connection or no connection
		Orange	1000Mbps connection

*USB BACKUP will start and beep after 3 seconds user presses BACKUP button.

**To turn off NVR, users need to press power button at least 2 seconds.

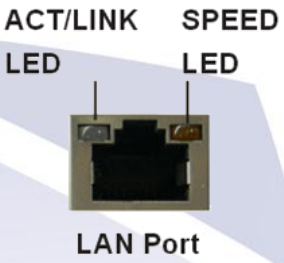
***To turn on NVR, users need to press power button at least 3 seconds.

1.2.3 DS-1100 Pro Series

DS-1105 Pro/DS-1109 Pro/DS-1112 Pro/DS-1116 Pro/DS-1120 Pro/DS-1125 Pro

Figure 1-7. DS-1100 Pro Series 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.

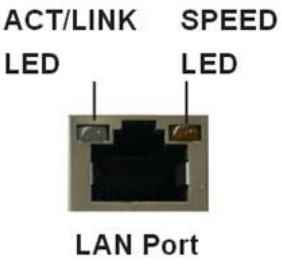
**To turn on your NVR, long pressing power button at least 3 seconds.

1.2.4 DS-2100 Pro Series

DS-2105 Pro/DS-2109 Pro/DS-2112 Pro/DS-2116 Pro/DS-2120 Pro/DS-2125 Pro

Figure 1-8. MX-1000 Series 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.

1.2.5 DS-4200 Pro Series

DS-4205 Pro/DS-4209 Pro/DS-4212 Pro/DS-4216 Pro/DS-4220 Pro/DS-4225 Pro/DS-4232 Pro

Figure 1-7. DS-4200 Pro Series Front Panel & RJ-45 Port

LED on Front Panel

LED	LED Status	Indicate
LAN1 LAN2	Off	LAN Link is not established
	Orange	LAN Link is established
	Orange blinking	LAN activity is occurring
eSATA	Off	No data transmission
	Orange blinking	The eSATA device is being accessed
HDD1 HDD2 HDD3 HDD4	Off	Hard disk drive device is not ready
	Green	Hard disk drive is being accessed
	Green blinking	Hard disk drive data is being accessed
	Red blinking	Hard disk drive error occurs (Blinking with 0.5Hz)
	Red	Hard disk drive failure and need to be removed
Power	Off	Power Off
	Green	Power On
	Red	System error occurs
BACKUP	Off	USB device is not detected
	Blue	USB device is ready
	Blue blinking	The NVR data is being copied to the USB device (Blinking with 1Hz)
	Red	Backup error occurs

LED on RJ-45 Connection at Rear Panel

LED	LED Position	LED/State	Indicate
LAN1 LAN2	Link/Activity (Right LED)	Off	LAN Link is not established
		Yellow	LAN Link is established
		Yellow Blinking	LAN activity is occurring
LAN1 LAN2	Speed (Left LED)	Off	10Mbps connection or no connection
		Green	100Mbps connection
		Orange	1000Mbps connection

*USB BACKUP will start and beep after 3 seconds user presses BACKUP button.

**To turn off NVR, user needs to press power button at least 2 seconds.

1.2.6 DS-8200-RM Pro Series

DS-8209-RM Pro/ DS-8212-RM Pro/ DS-8216-RM Pro/DS-8220-RM Pro/ DS-8225-RM Pro/DS-8232-RM Pro

Figure 1-8. Front View of DS-8200-RM Pro Series & RJ-45 Port

LED at Front Panel

LED	LED Status	Indicate
LAN1 LAN2	Off	LAN Link is not established
	Orange	LAN Link is established
	Orange blinking	LAN Activity is occurring
eSATA	Off	No data transmission
	Orange blinking	The eSATA device is being accessed
HDD1 HDD2 HDD3 HDD4 HDD5 HDD6 HDD7 HDD8	Off	Hard disk drive device is not ready
	Green	Hard disk drive is being accessed
	Red blinking	Hard disk drive error occurs Blinking with 0.5Hz
	Red	Hard disk drive failure and need to be removed
Power	Off	Power Off
	Green	Power On
	Red	System error occurs
BACKUP	Off	USB device is not detected
	Blue	USB device is ready
	Blue blinking	The NVR data is being copied to the USB device (Blinking with 1Hz)
	Red	Backup error occurs

LED on RJ-45 Connection at Rear Panel

LED	LED Position	LED/State	Indicate
LAN1 LAN2	Link/Activity (Right LED)	Off	LAN Link is not established
		Yellow	LAN Link is established
		Yellow Blinking	LAN activity is occurring
LAN1 LAN2	Speed (Left LED)	Off	10Mbps connection or no connection
		Green	100Mbps connection
		Orange	1000Mbps connection

*USB BACKUP will start and beep after 3 seconds user presses BACKUP button.

**To turn off NVR, user needs to press power button at least 2 seconds.

*** The LED in the HDD trays are reserved.

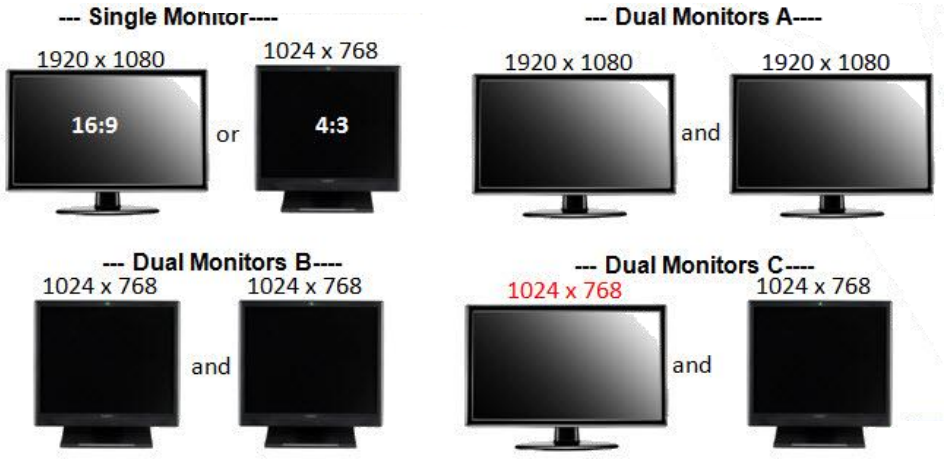
1.3 HDMI and VGA connection

DS-4200 Pro Series and DS-8200-RM Pro Series provide HDMI and VGA port for local display. Users can connect both of HDMI and VGA 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 XGA (1024x768), those will be shown all as XGA.

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



Chapter 2. NVR Installation

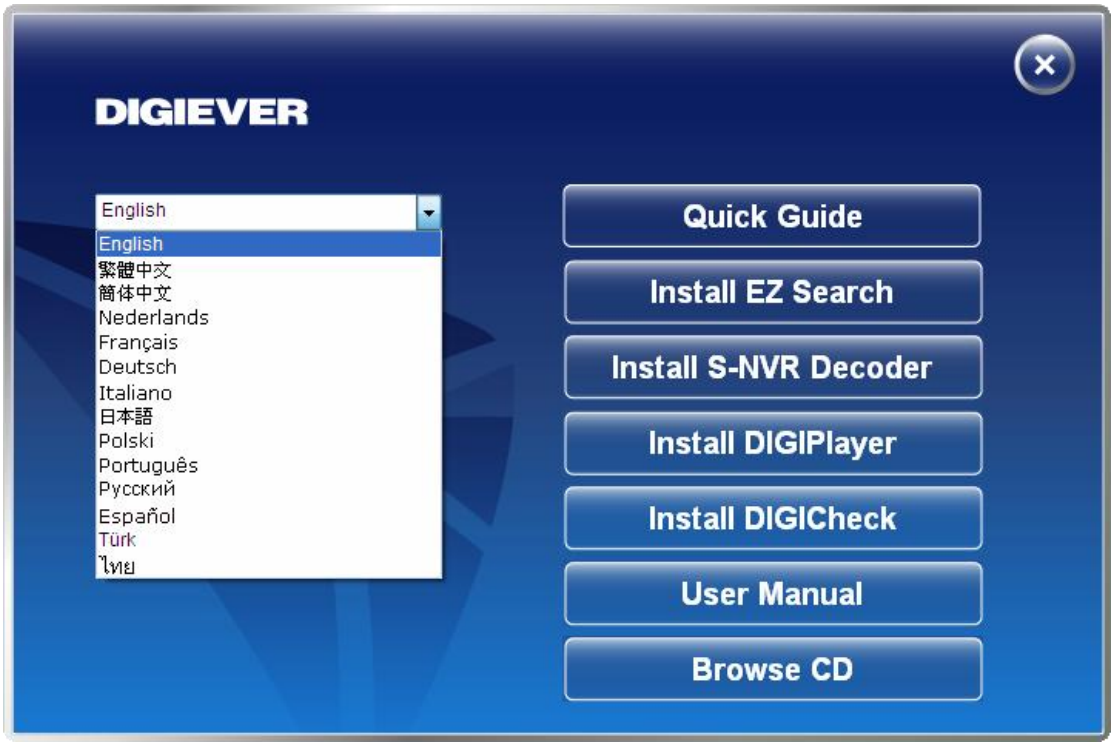
2.1 System Requirements

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

- **Operating System**
  Microsoft® Windows® XP/ Vista/ 7
- **Browser**
  Microsoft® Internet Explorer 7.0 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.

2.2 Connect to DIGISTOR

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.



2.2.1 Quick Guide

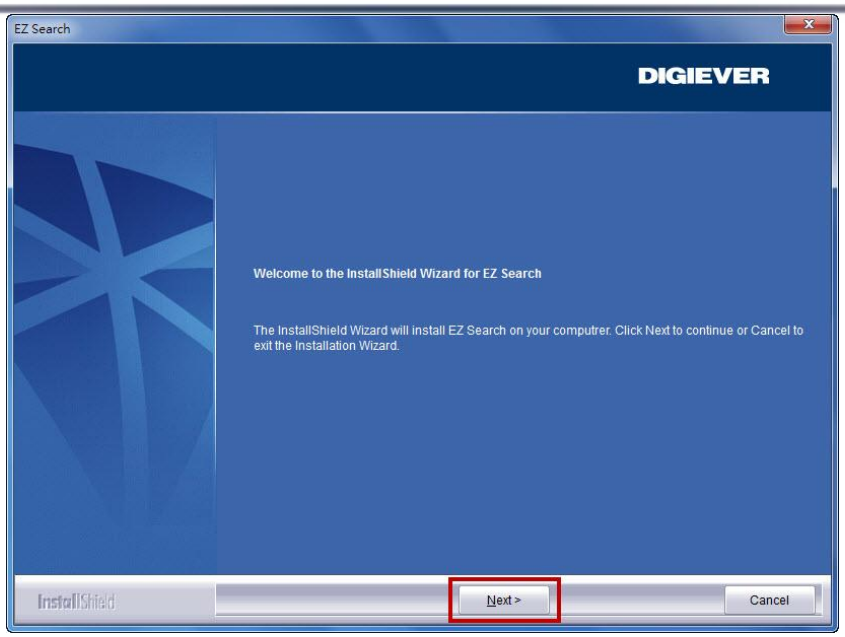
Click "**Quick Guide**" 

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

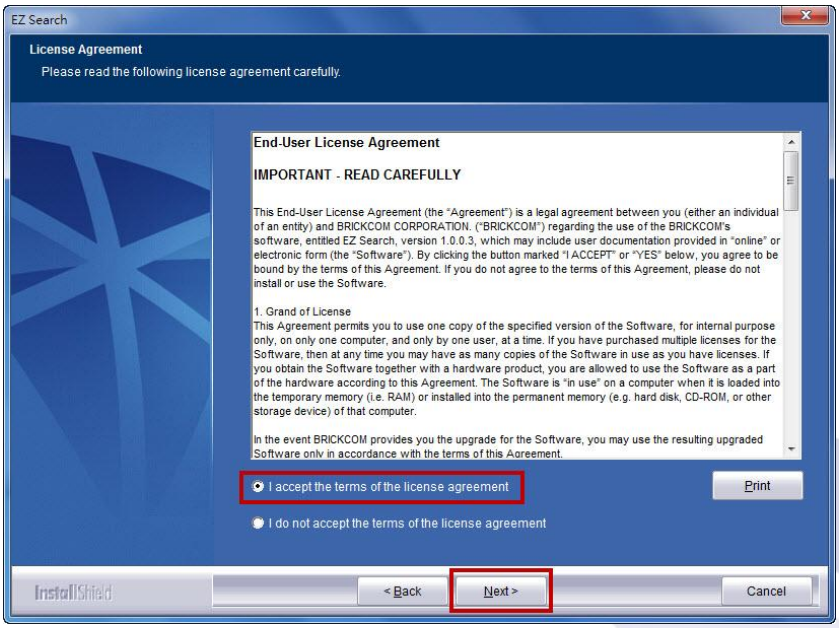
2.2.2 Install EZ Search

Click "**Install EZ Search**" 

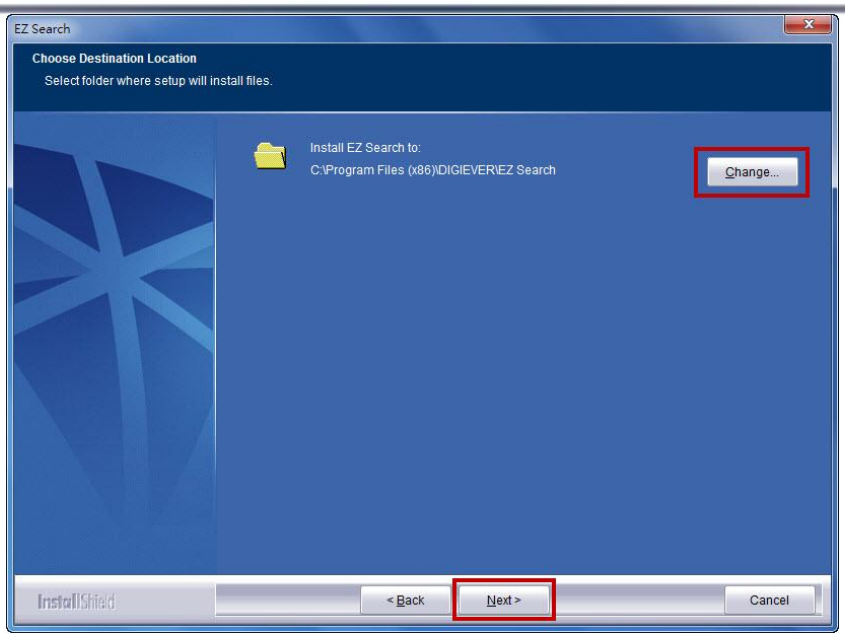
to find DIGISTOR in the network. Please follow the instructions to install and EZ Search will run automatically.



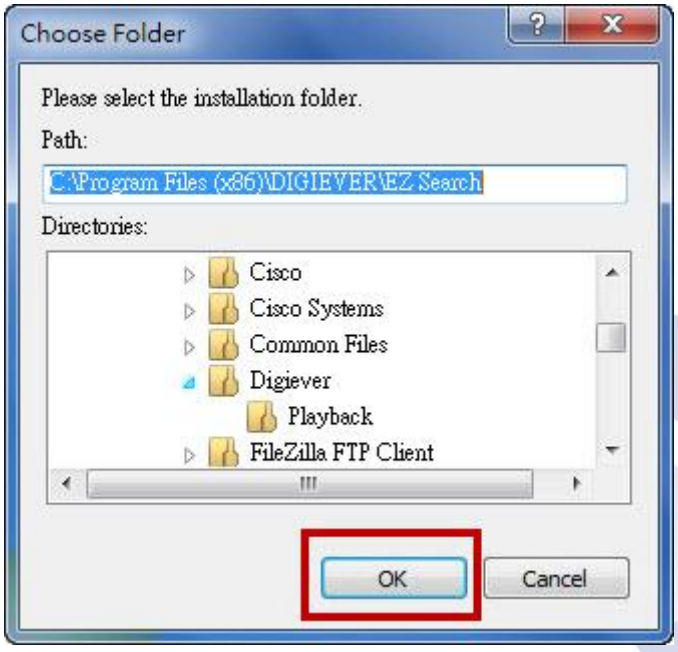
When installing EZ Search, **Shield Wizard window for EZ Search** will pop up. Click "**Next**" to continue installation.



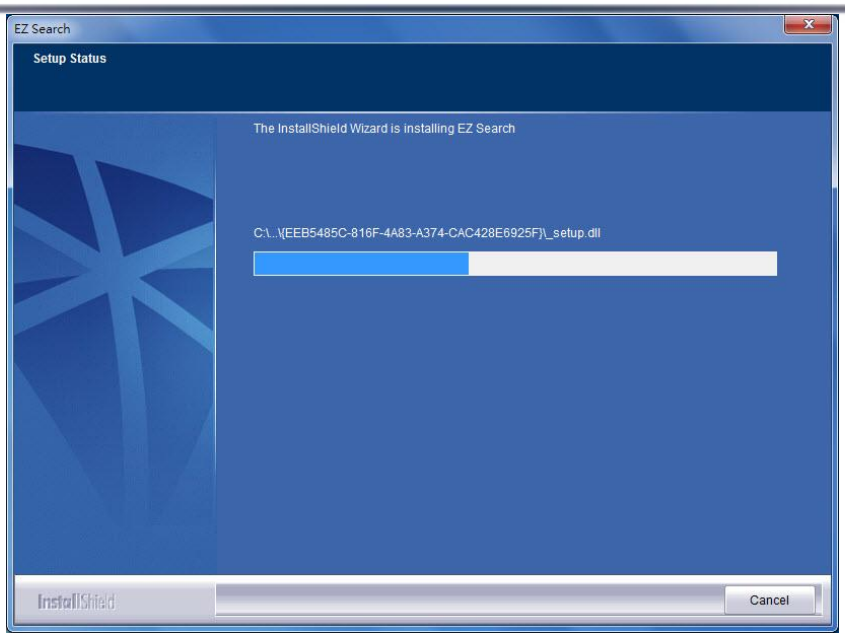
Read the license agreement and click "**I accept the terms of the license agreement**". Click "**Next**" to continue installation.



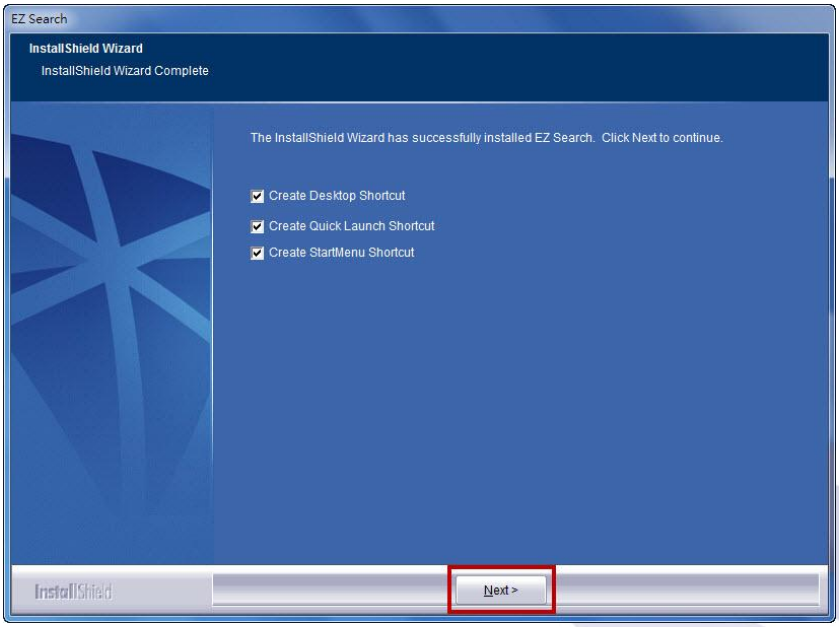
Select a location of destination and select a folder where the setup can install files. The default location is**: C:\Program Files (x86)\DIGIEVER\EZ Search.** Users can also install EZ Search in other folder by clicking "**Change**" and select a location as below. Click "**OK**" to save the setting.



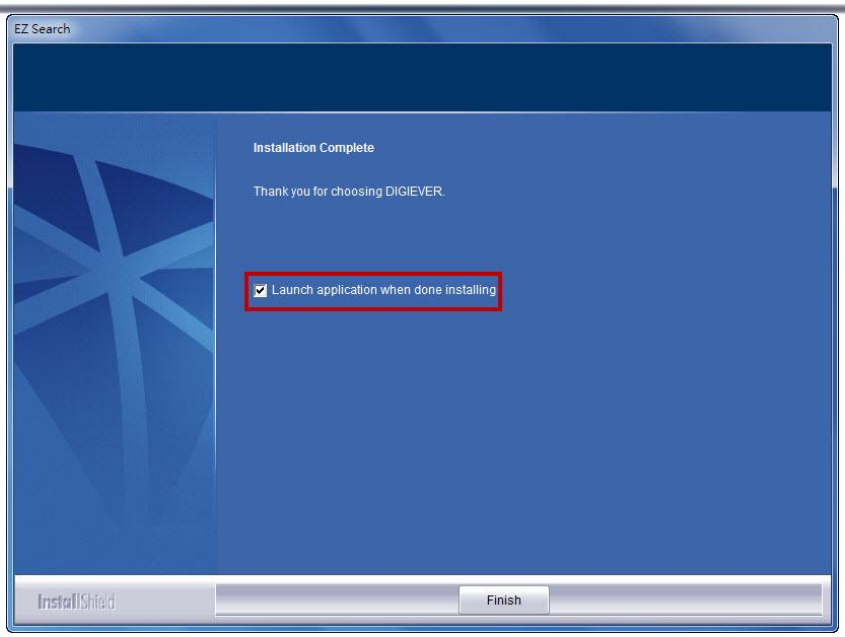
Once a folder is selected, please click "**OK**" to continue installation.



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

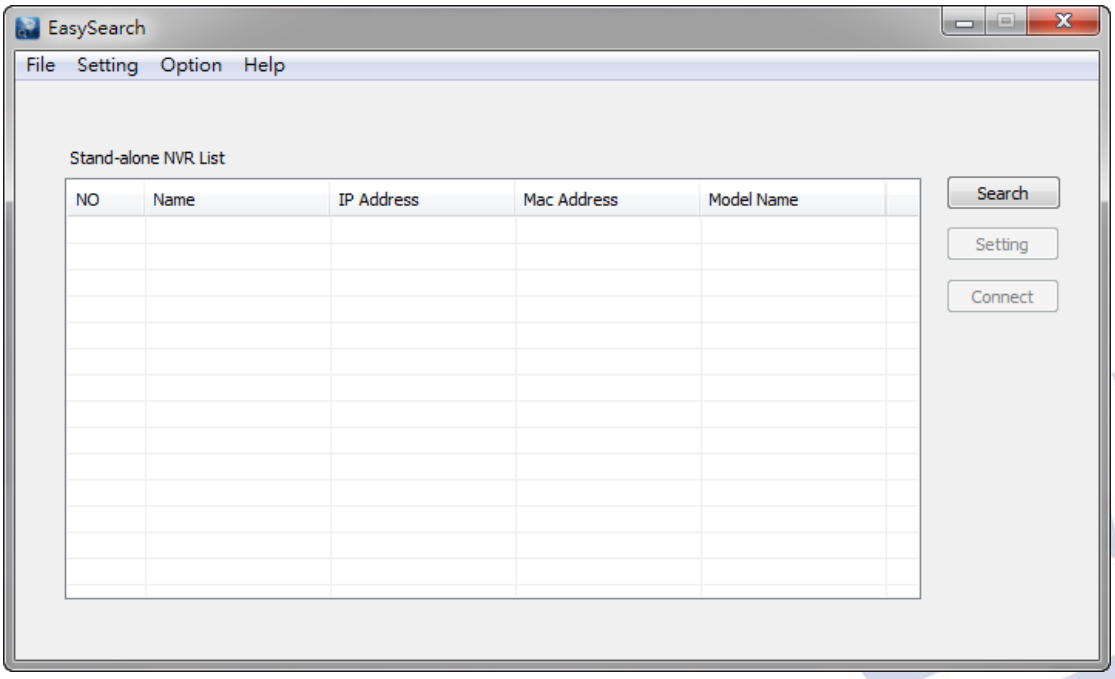


The Install Shield has successfully installed EZ Search. Select "**Create Desktop Shortcut**"/ "**Create Quick Launch Shortcut**"/ "**Create Start Menu Shortcut**" and please click "**Next**" to continue.



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

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

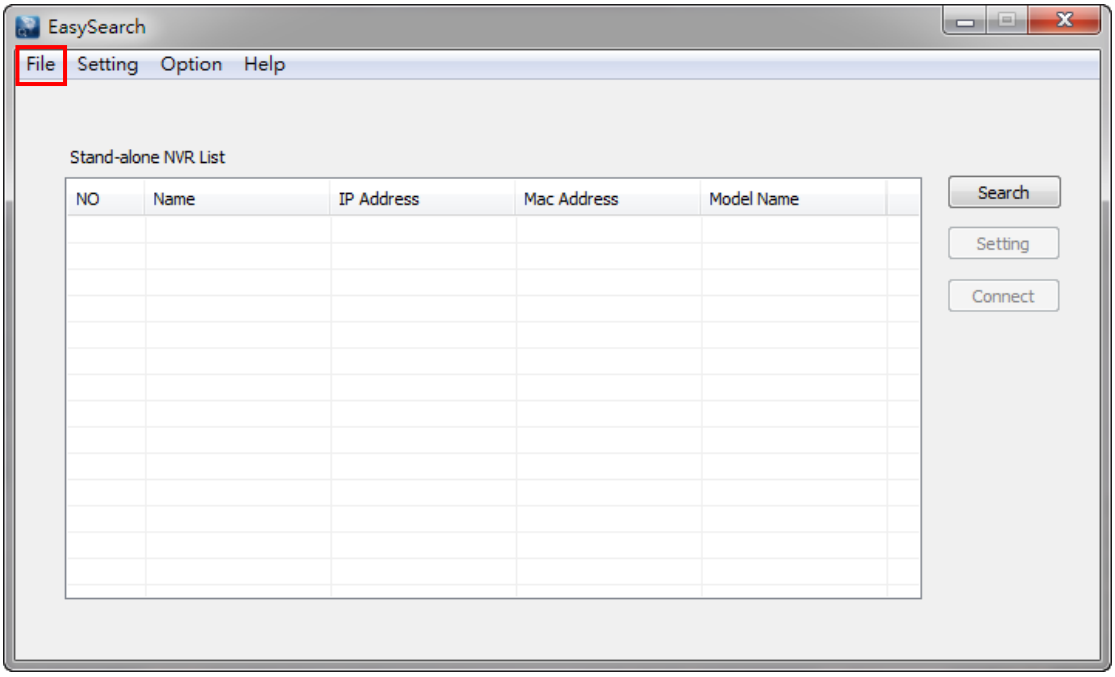


Users can click "**Search**" to search NVR.

Introduction of EZ Search

EZ Search provides three kinds of toolbars for users:

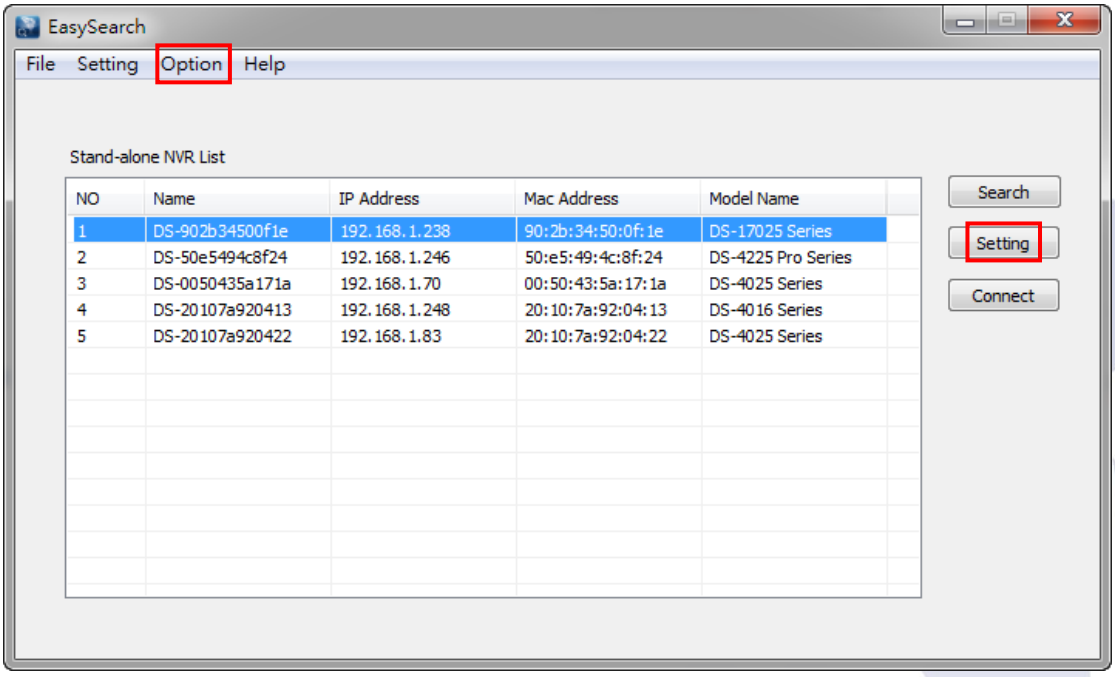
1. File



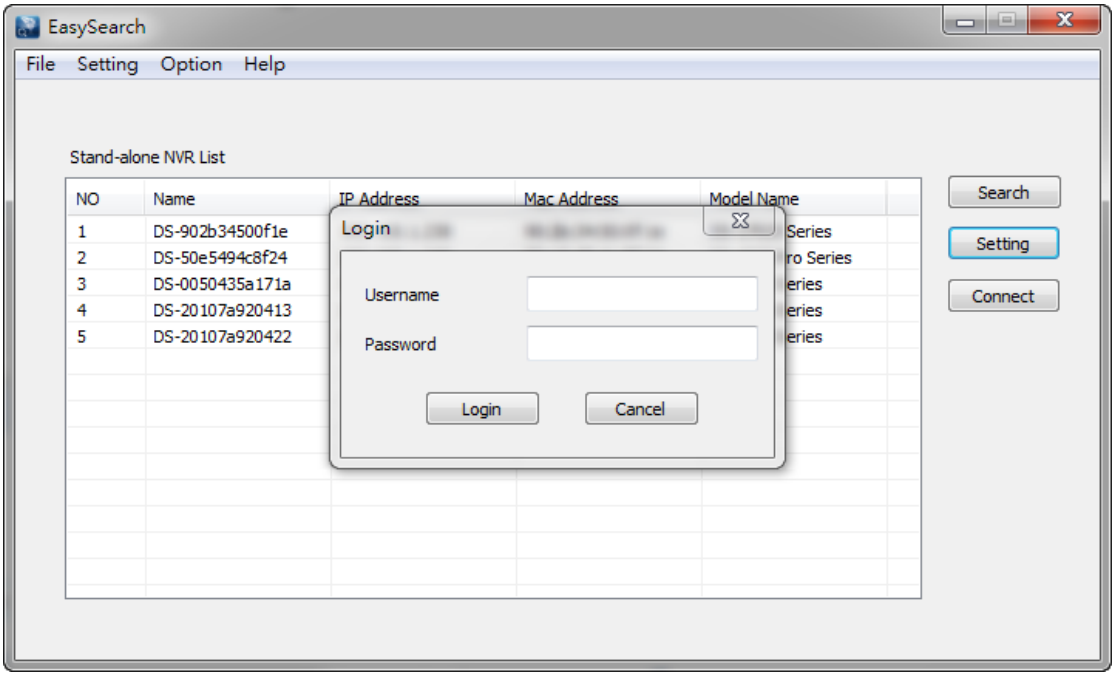
You can click "**Exit**" to leave EZ Search and close the window.

2. Setting

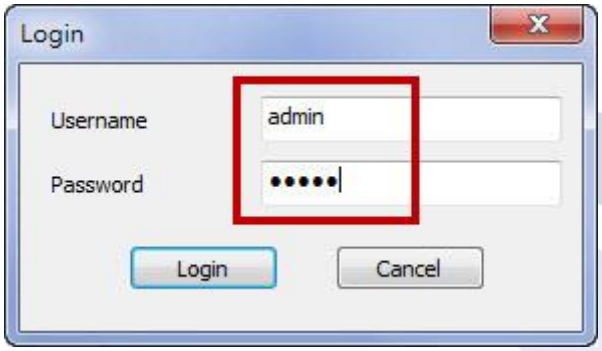
Configure UPnP and Network by clicking "**Setting**" in the top left or in the middle right.



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.



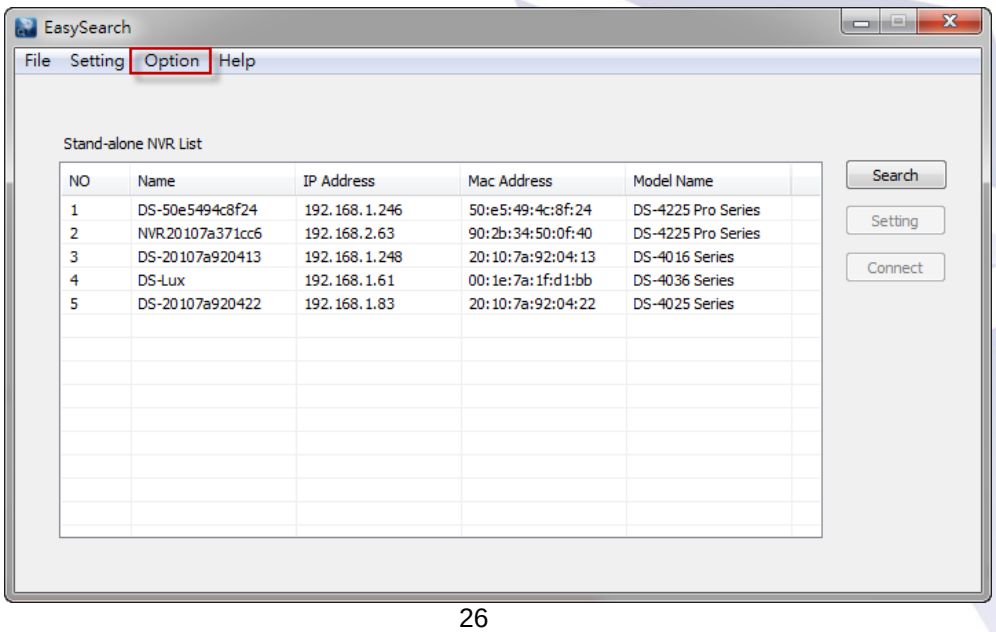
1) UPnP

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 DIGISTOR. Click "**OK**" to finish the setting.

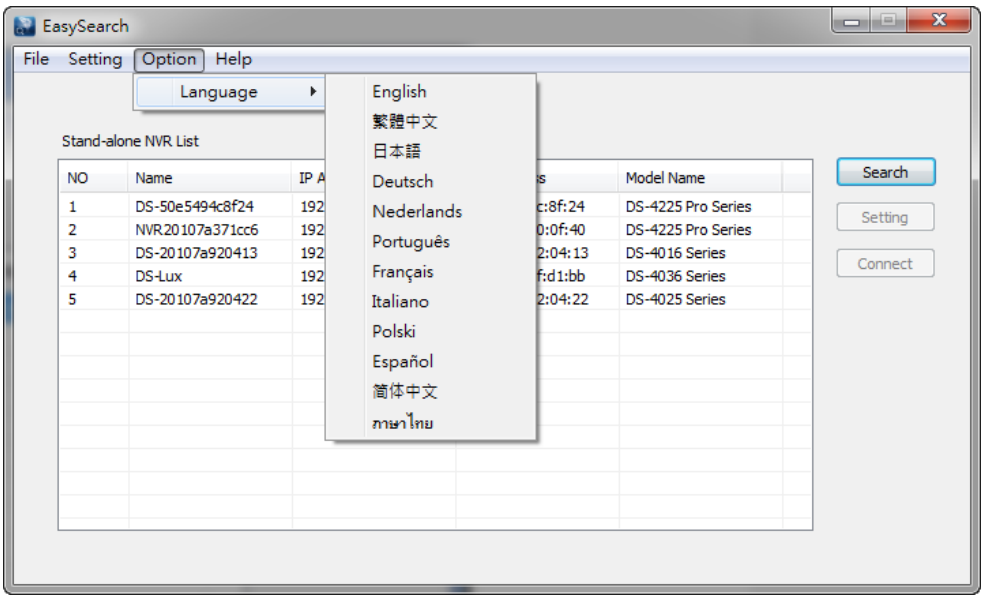
2) Network

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

3. Option



Option provides twelve languages

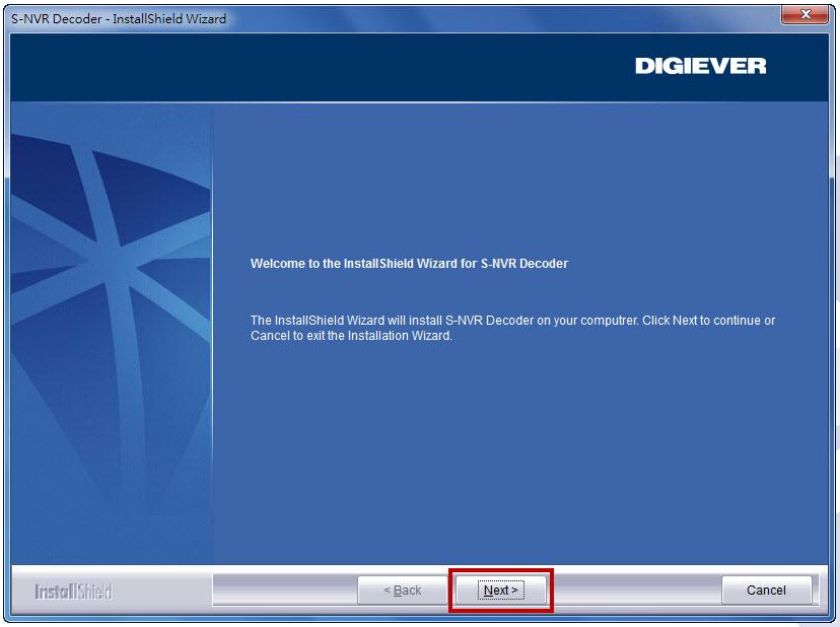


Once you click "**Connect**" or **double click** the selected NVR list, IE browser will pop up automatically for the web-based interface.

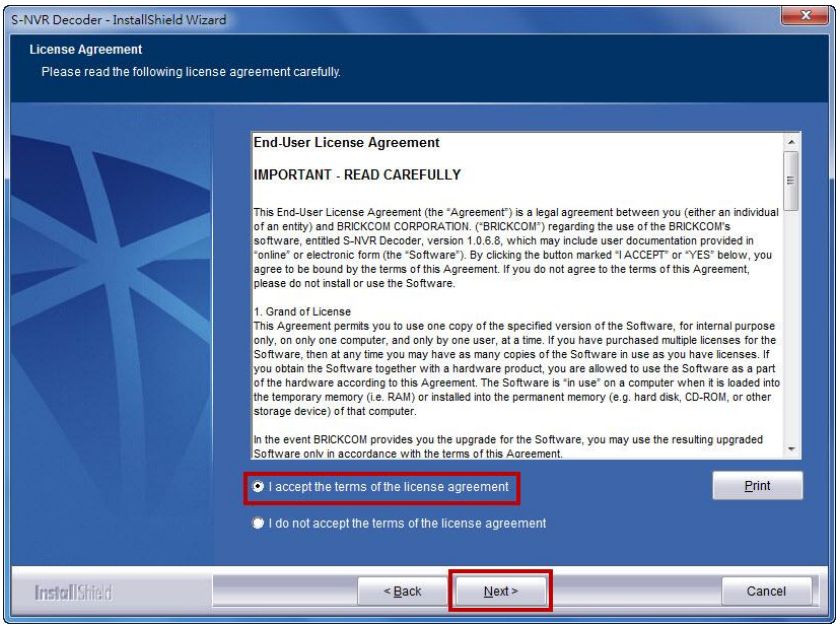
2.2.3 Install S-NVR Decoder

Click "**Install S-NVR Decoder**" 

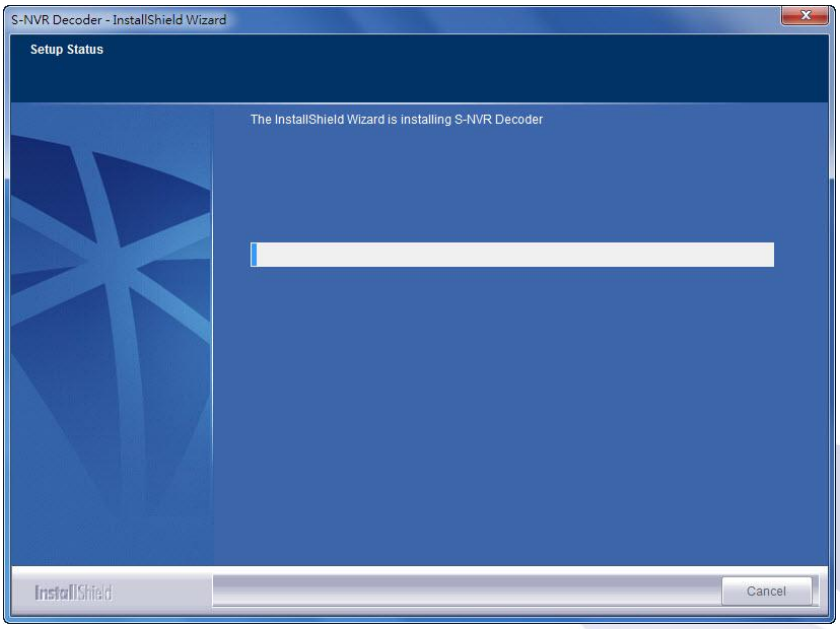
to install decoder and follow the instructions to setup.



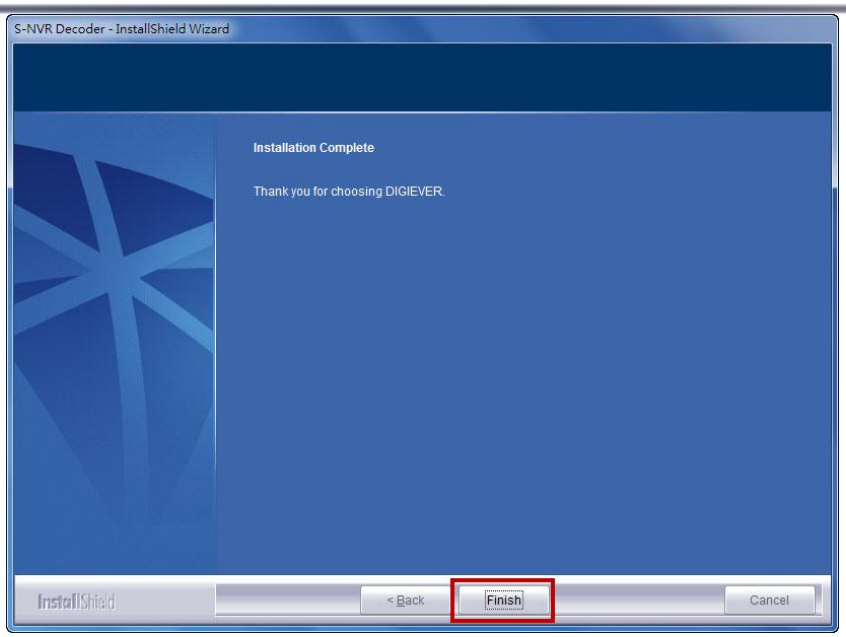
Install Shield Wizard window will pop up and please click "**Next**" to continue installation.



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



The installation Wizard is installing S-NVR Decoder.



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

2.2.4 User Manual

Click "**User Manual**" 

to open the folder and double-click on user manual file to read.

2.2.5 Browse CD

Click "**Browse CD**" 

to open the folder of current Autorun.exe file.

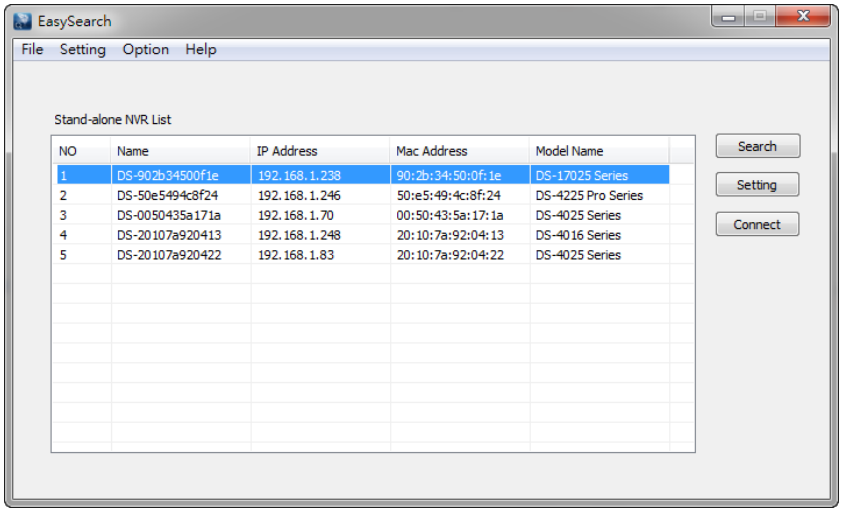
2.2.6 Activate Live View Service

1. Connect to NVR

After setting the EZ Search and S-NVR Decoder, users can connect to the web-based interface by the following two options: **EZ Search** or **IE browser**

1) EZ Search

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



2) IE browser

Log in to the system by entering its IP address in IE browser.

2. Enter username and password:

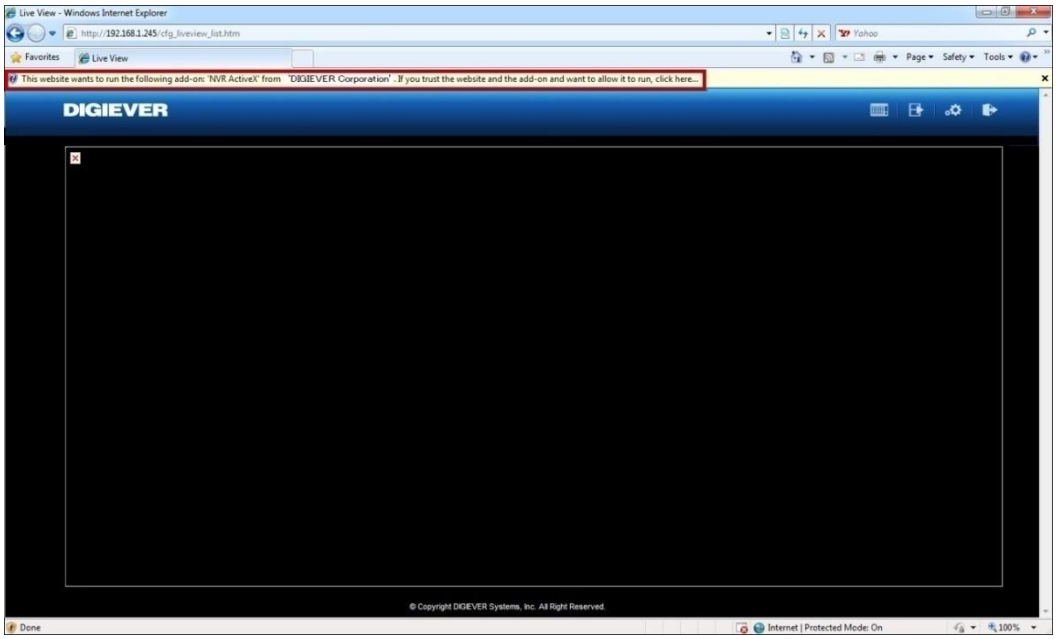
For first-time use, the default username and password are "**admin/admin**."

3. Select the languages for the UI.

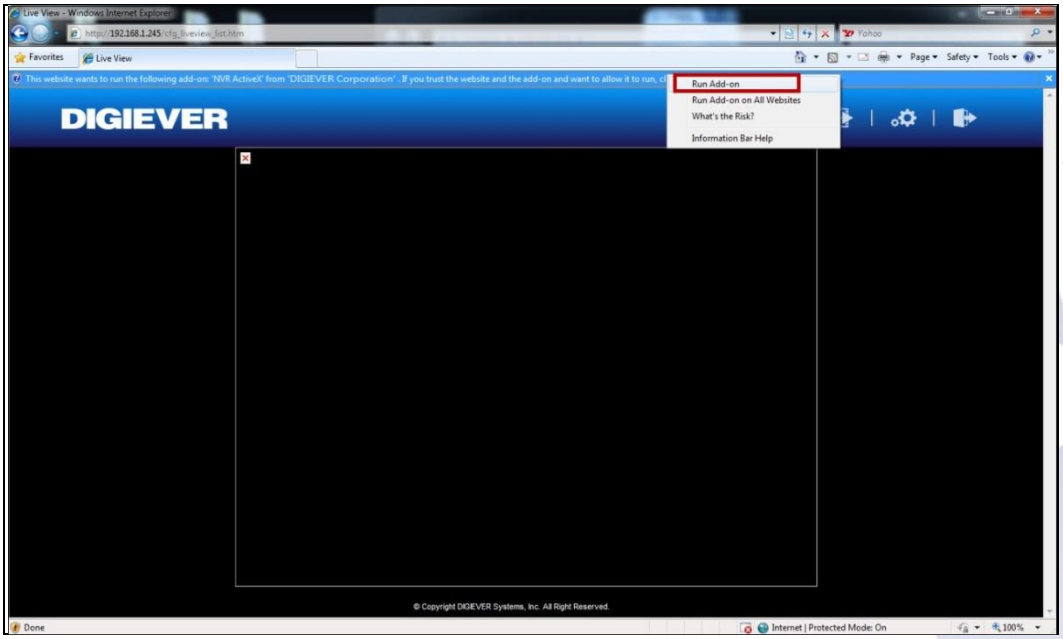
4. Allow ActiveX Control

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

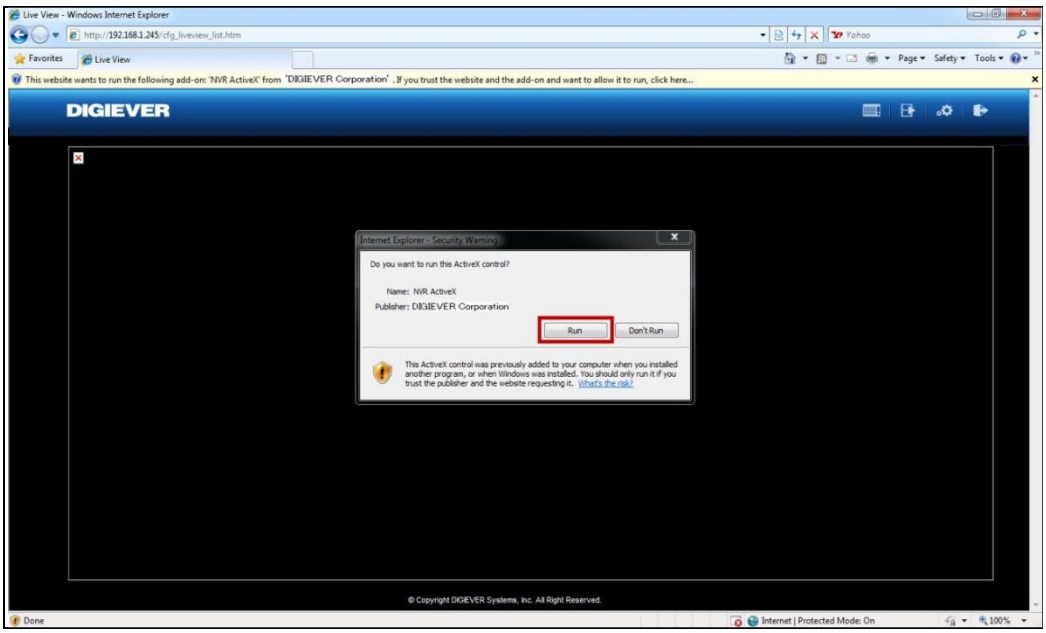
1) Left-click on the description "**This website wants to run the following add-on: 'NVR ActiveX' from 'DIGIEVER Corporation'…..**"



2) Left-click on the description "**Run Add on**."



3) Left-click "**Run**" to use licensed ActiveX controls.



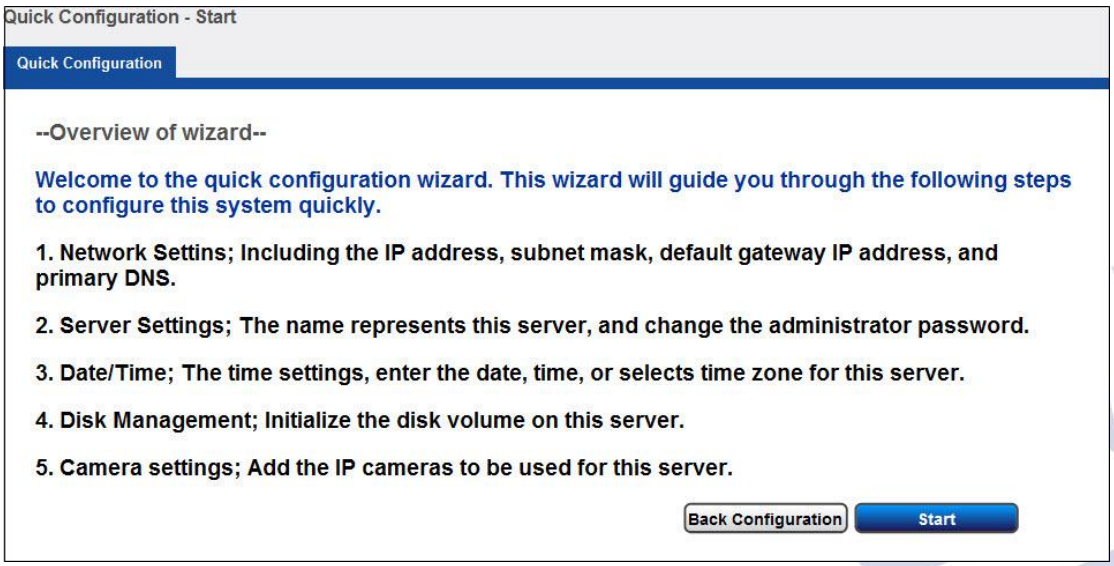
2.3 Quick Configuration

After users log in DIGISTOR 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.

2.3.1 Start

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

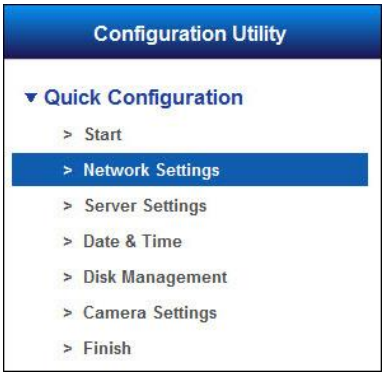
To initial the configuration, please study the **Overview of wizard** first. Through five steps, the wizard will guide you to set up the system quickly.



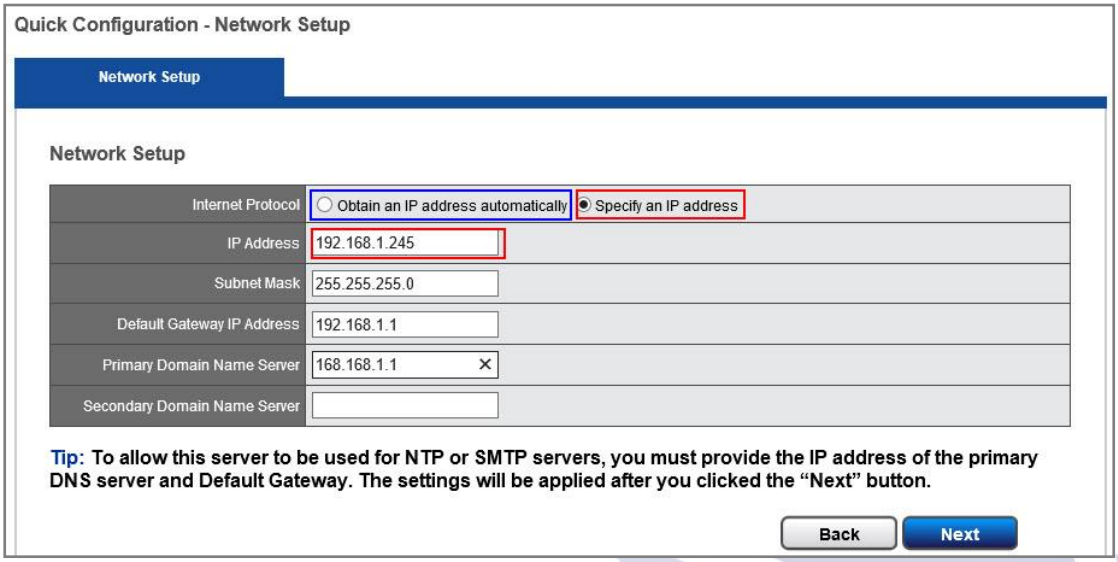
Click "**Start**" in Overview of wizard page to begin Quick Configuration.

2.3.2 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.



- **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, DIGISTOR will automatically obtain an available dynamic IP address from the DHCP server once it connects to the network.

  2. Specify an IP address.

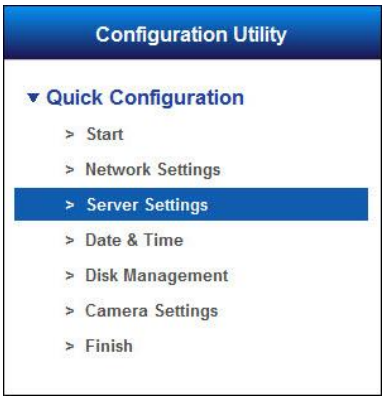
  If there is no DHCP server existing in network environments, the static IP address will be given as **192.168.1.245**. It should be adaptable in most networking environment, and user can choose to maintain the default IP address or change it in this page. However, it's recommended setting different IP address of DIGISTOR if there is more than one DIGISTOR in the same LAN.

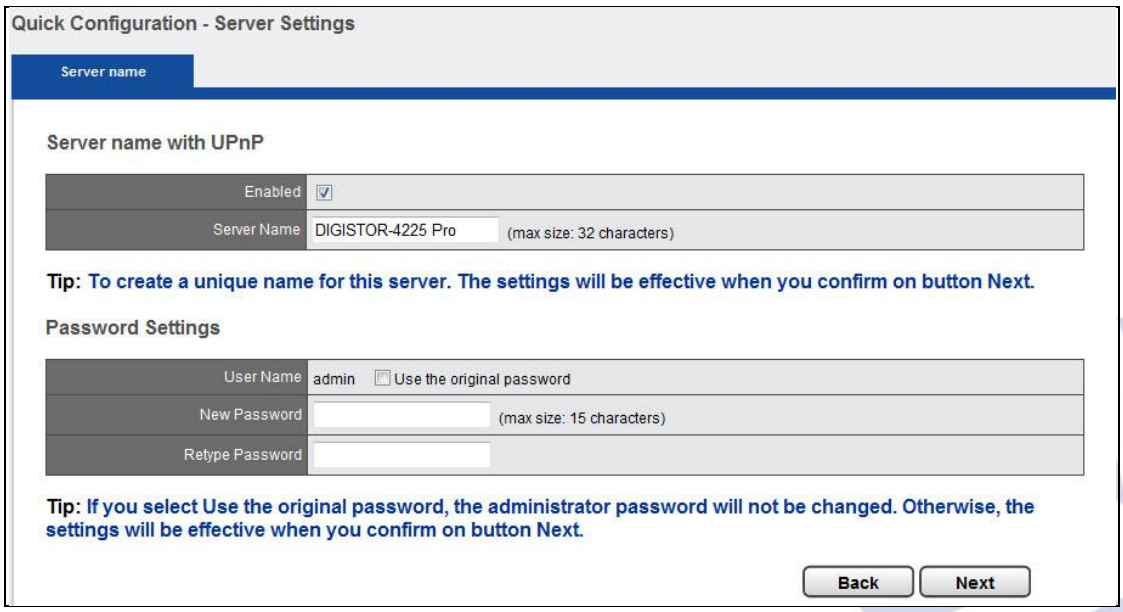
To assign a static IP address to the DIGISTOR:

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 DIGISTOR and login in again.
   Click "**Next**" to proceed with the configuration.

2.3.3 Server Settings

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





- **Server name with UPnP**

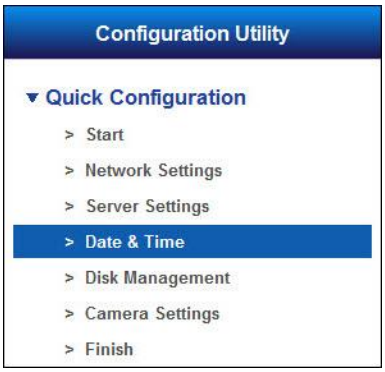
Universal Plug and Play (UPnP) simplifies the process of adding a NVR to a local area network. Once connected to LAN, the DIGISTOR will automatically appear on the internet. User can select to enable the function with UPnP and edit a sever name.

- **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.

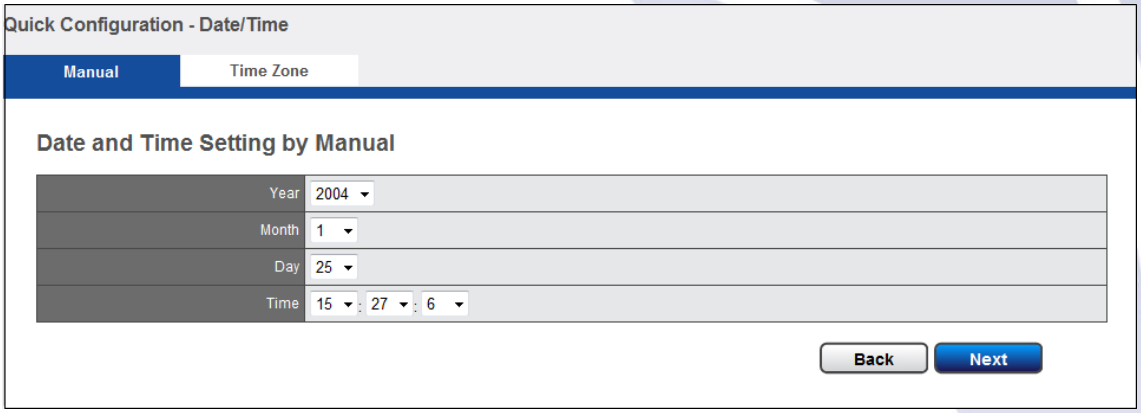
2.3.4 Date & Time

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



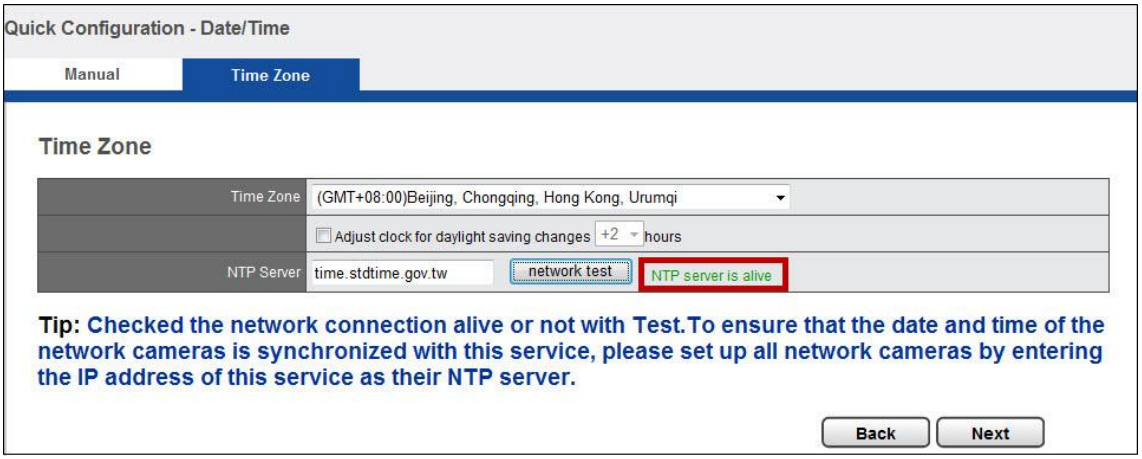
1. Manual setting

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**."



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 DIGISTOR automatically with an NTP server. User also has an option to automatically adjust daylight saving time.



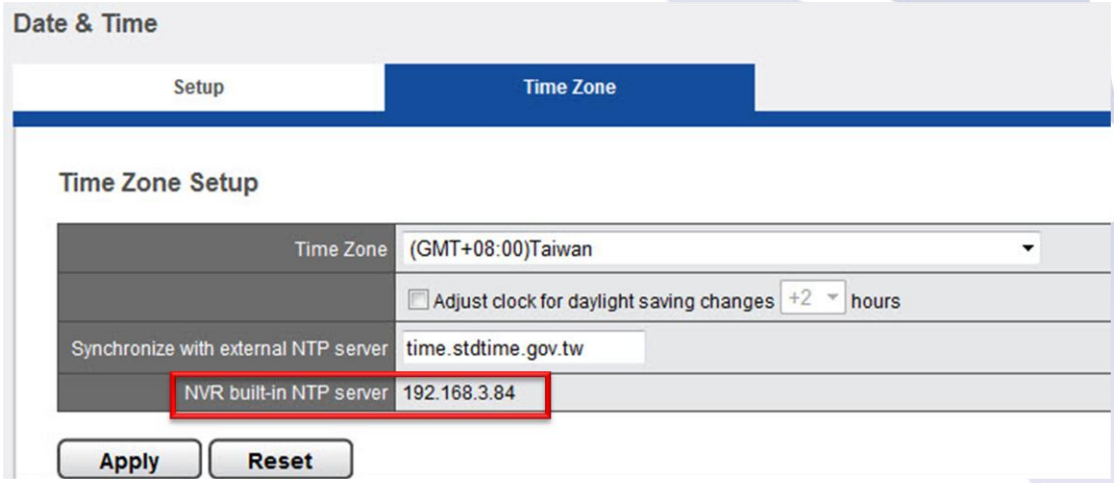
Configure the time and date by verifying and adjusting current local time and daylight saving to avoid the following errors:

- 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.

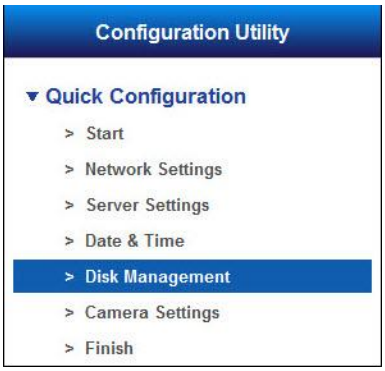
Built-in NTP server in NVR

DIGISTOR 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.

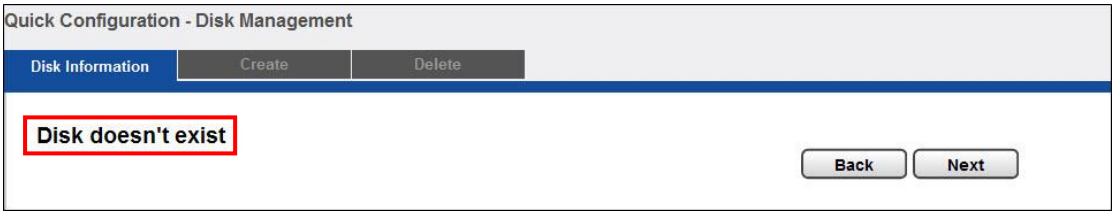


2.3.5 Disk Management

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

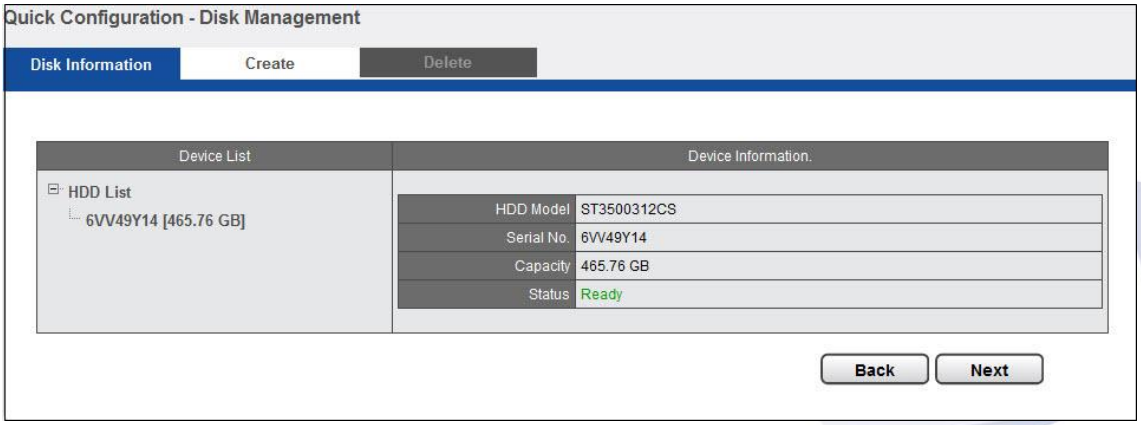


If hard disk is not installed in NVR, the page will show "**Disk doesn't exist.**"



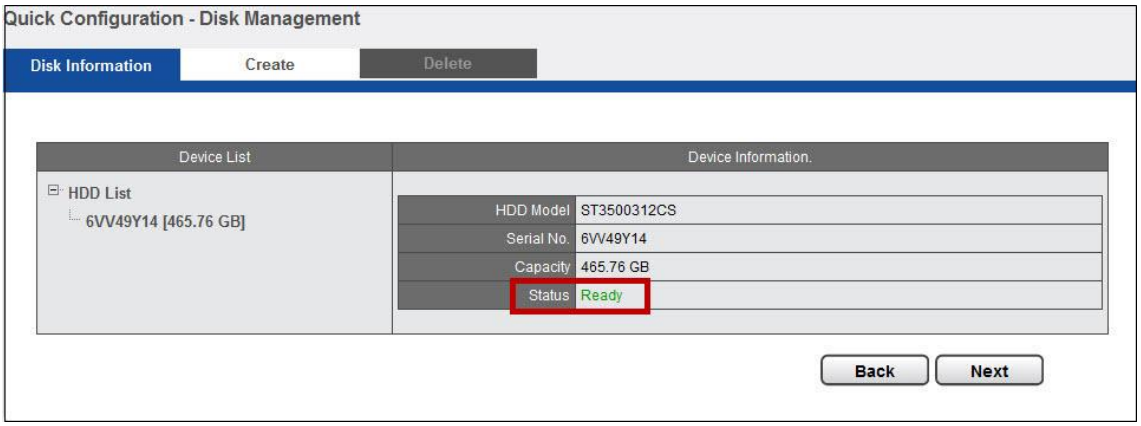
Once an available hard disk drive is inserted into the tray, Disk Information will show in **Device Information** and users can start to create new RAID Disk.

1. Disk Information



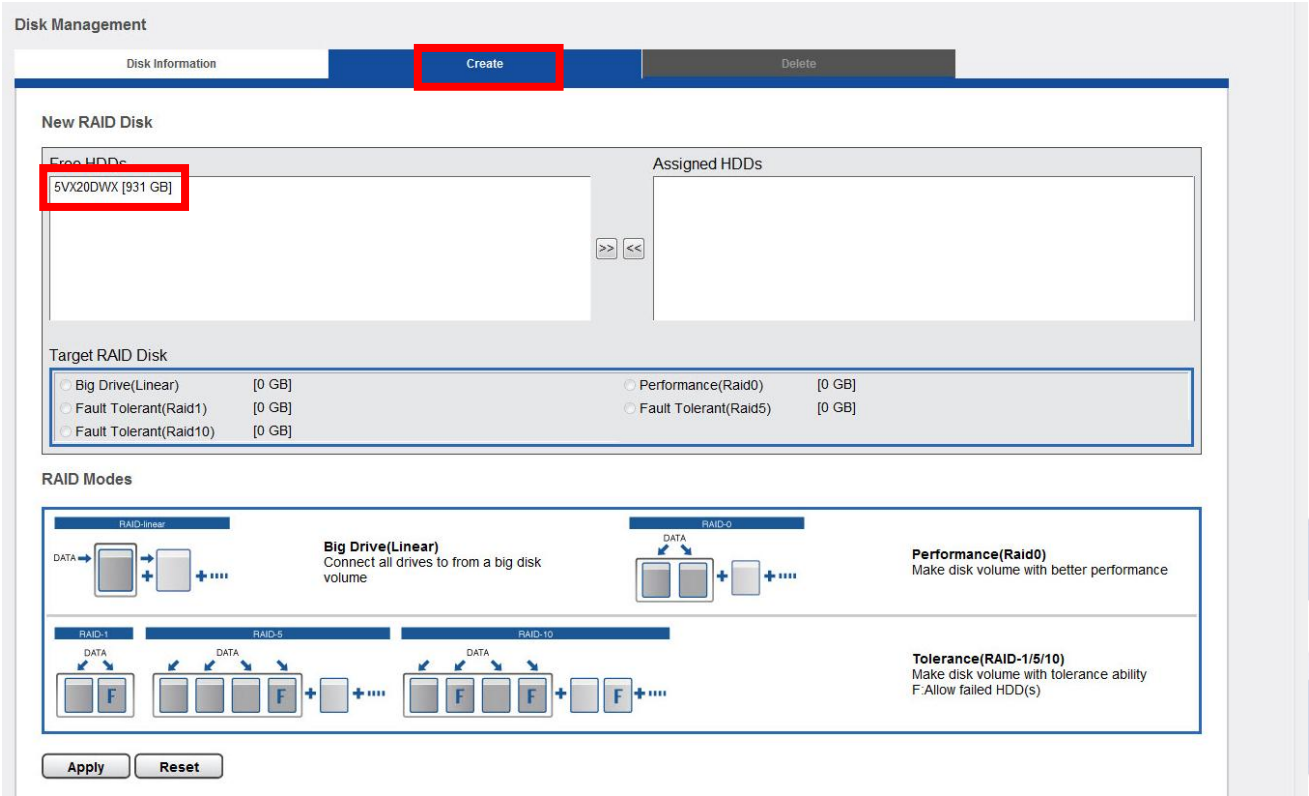
Device Information provides details of the hard disk drive: **HDD Model**, **Serial NO.**, **Capacity** and **Status**.

2. Create

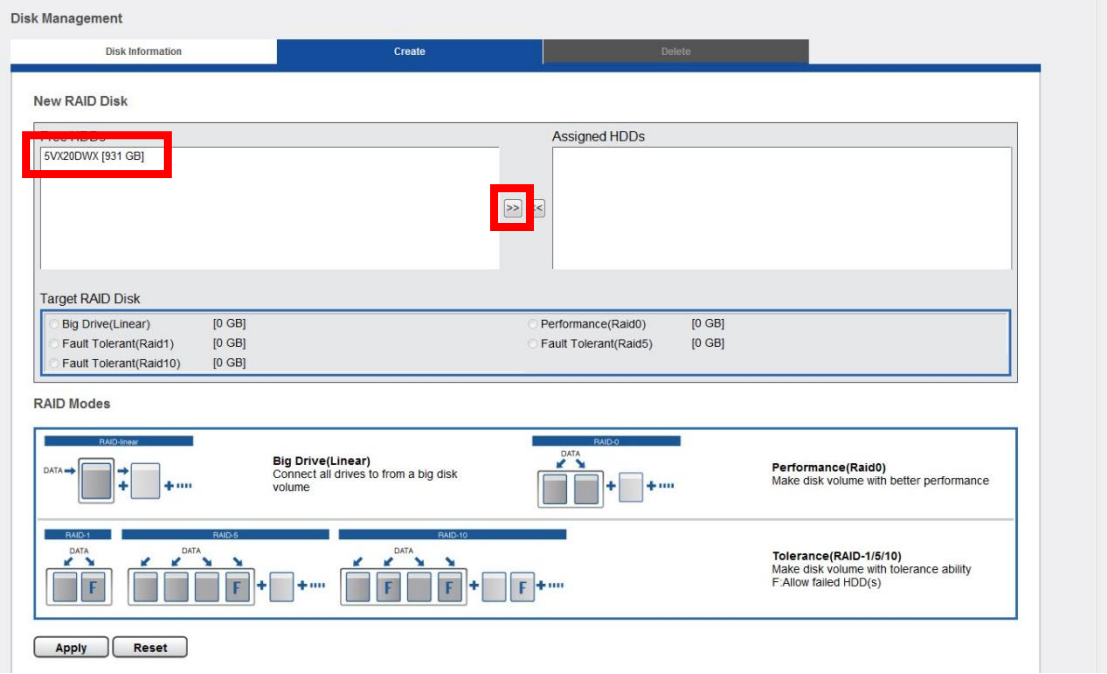


As the hard disk drive is available, the status of Device Information shows "**Ready,**" which indicates the hard disk drive is **ready to be created**.

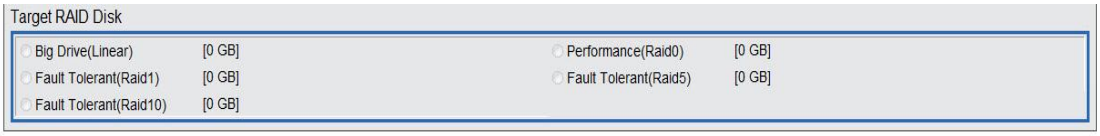
Please click "**Create**" to enter the window for building New RAID Disk and select the hard disk drive in the Free HDDs field.



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.



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



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

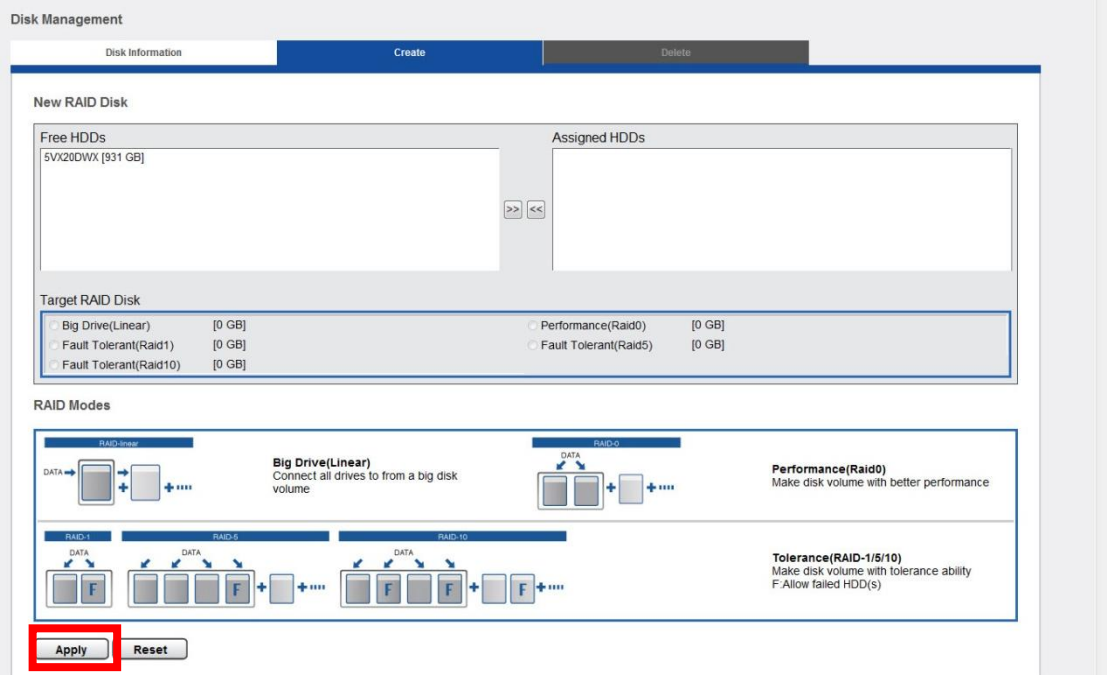
The introduction of disk configuration is in the below table.

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)	RAID0 is 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.

Fault Tolerant (Raid5)	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.
Fault Tolerant (Raid10)	Data are written in stripes across primary disks that have been mirrored to the secondary disks. A typical RAID 10 configuration consists of four drives, two for striping and two for mirroring

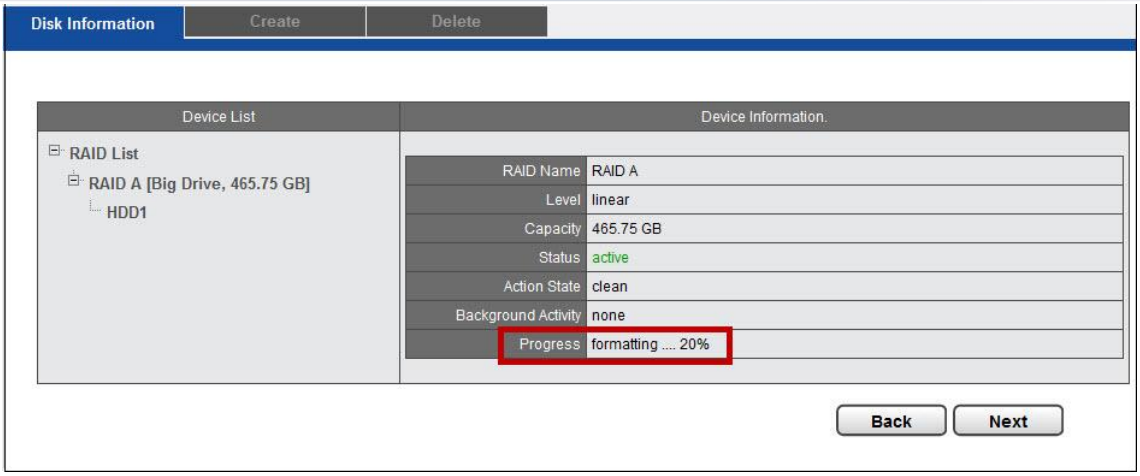
RAID 10 is supported in DS-8200-RM Pro and DS-4200 Pro Series only.



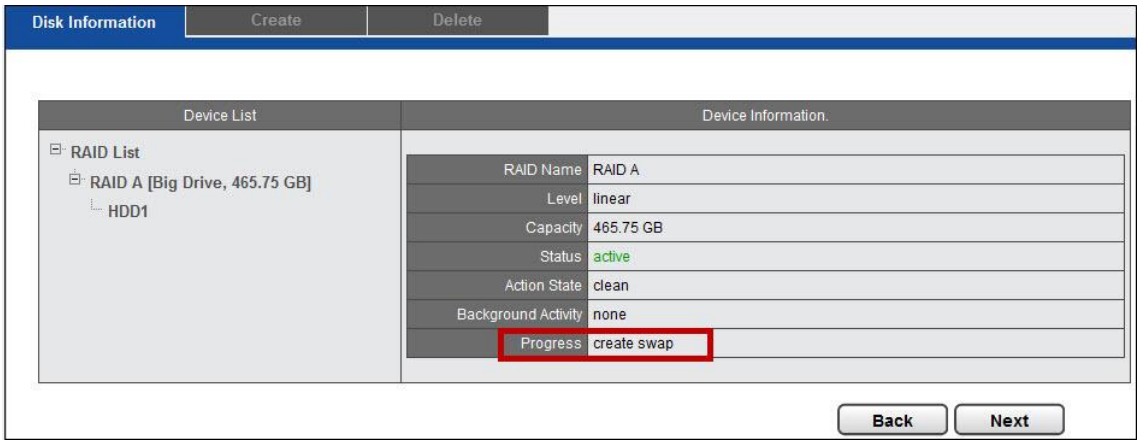
Select a type of disk configuration, and please click "**Apply**" to execute building new RAID disk.

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

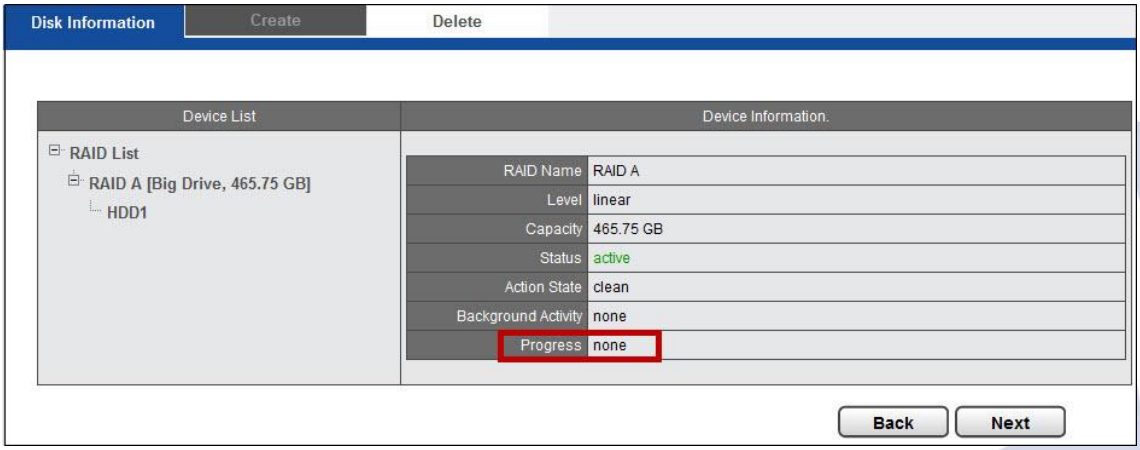
Please wait. The disk configuration is in a process.



The progress is under "**formatting….20%**". Please wait till 100%.



The progress is in "**Create swap**" and is going to finish the disk building.



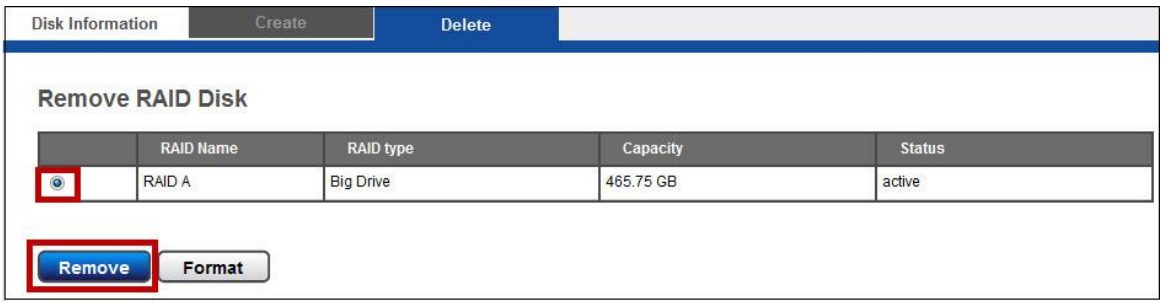
Finally, the RAID disk building is complete.

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.



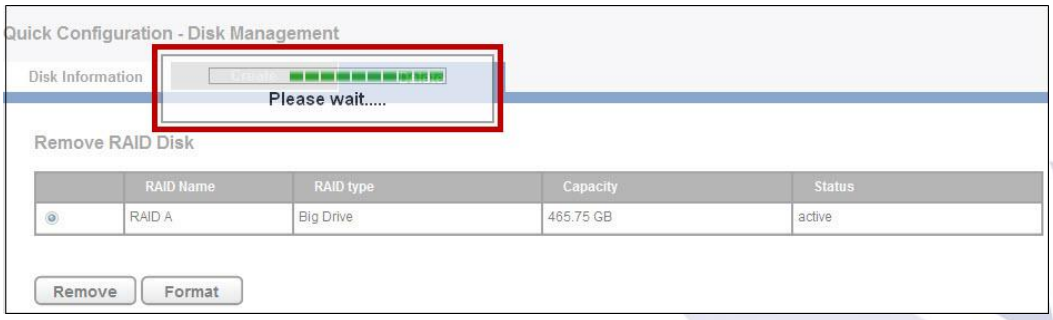
In "**Delete**" option, user can remove or format RAID disk by selecting the **RAID disk**.

In the table, **RAID Name, RAID type, Capacity** and **Status** are shown.

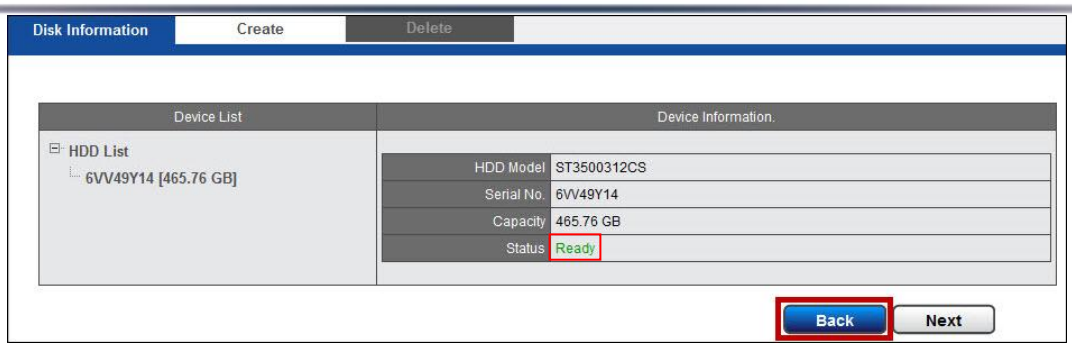
- **Remove**

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.

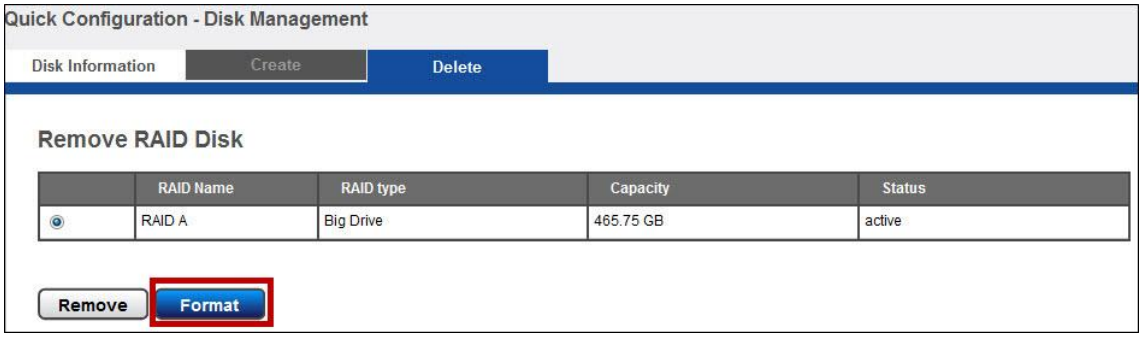


If users want to change the RAID level setting, please click ‘‘Remove.’’ After the RAID Disk is removed, the Status in Device information shows “**Ready**,” then users can go back to Create page to continue the new RAID level configuration.

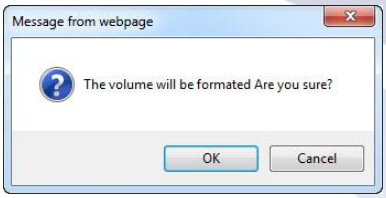
Note: Once you remove the disk and continually create it, the recorded video will be formatted.

- **Format**

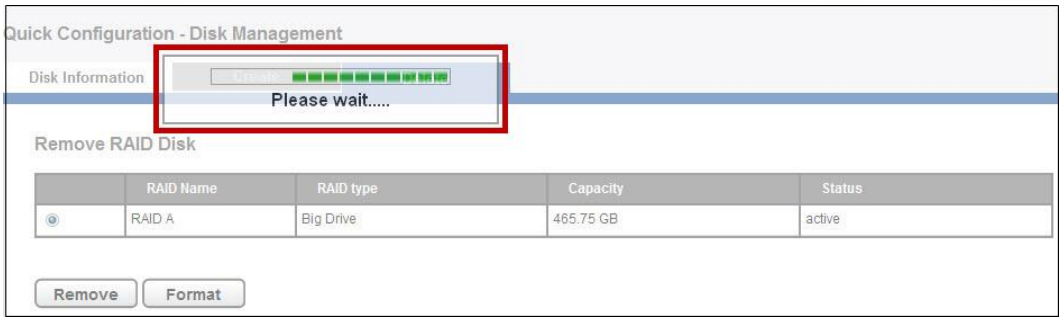
Click “**Format**” to format the RAID disk, all recorded videos will be deleted.



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

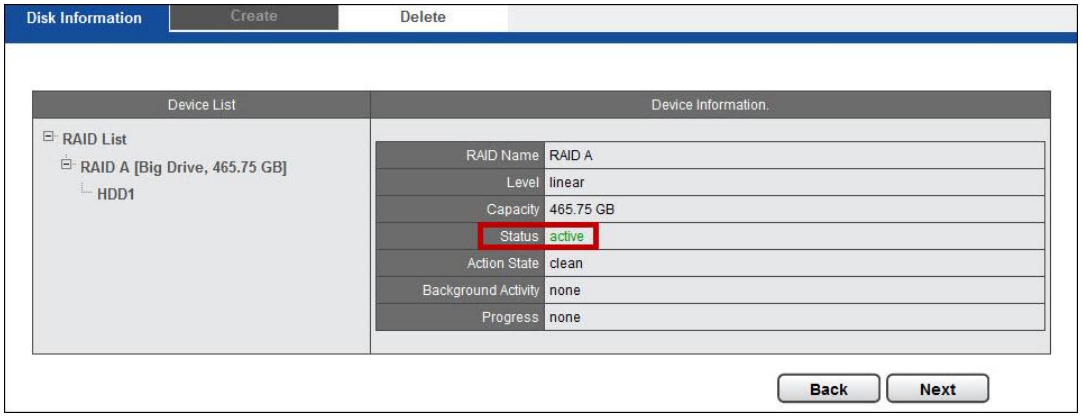


To format RAID disk, click “**OK**” to continue.



Hard disk drive is formatting.

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



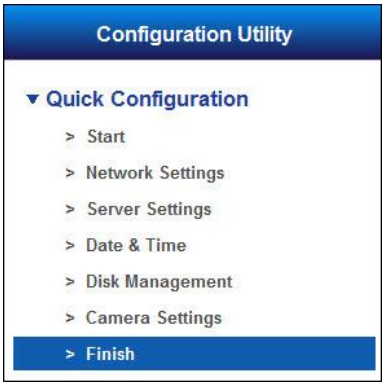
After the RAID disk is formatted, device Information shows status- "**active**".

2.3.6 Camera Settings

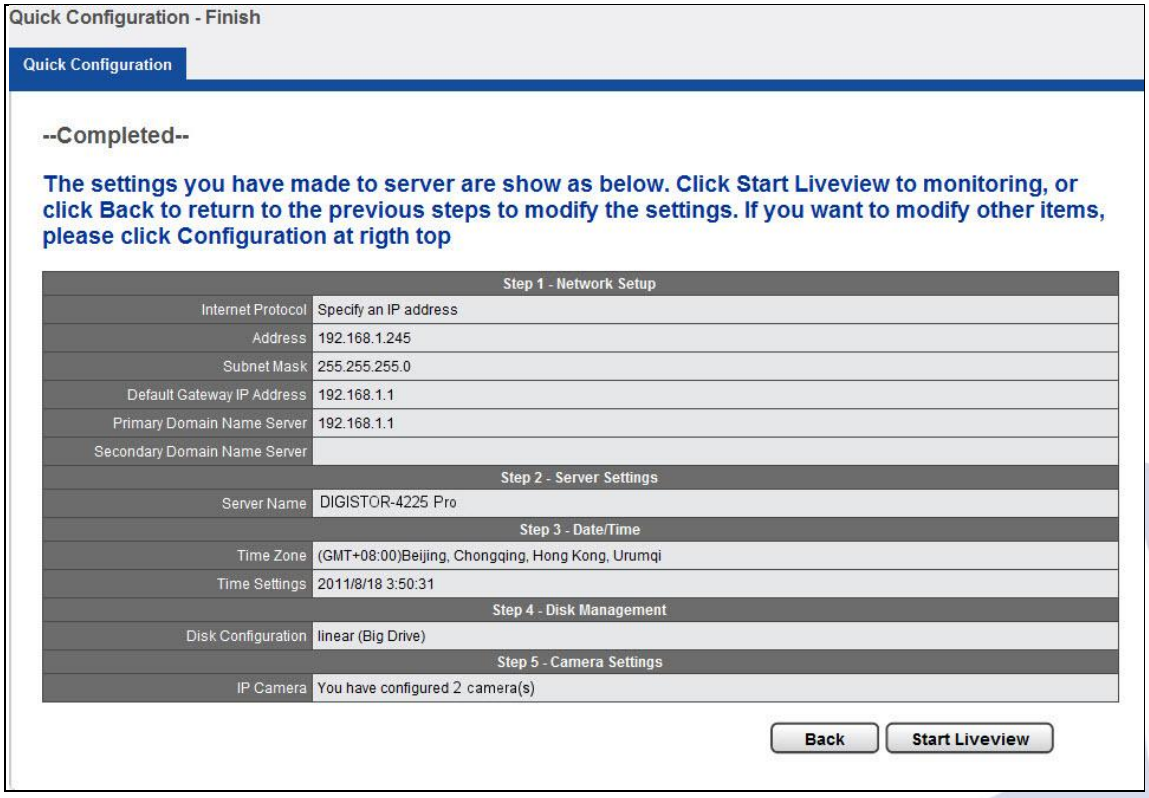
Please see Chapter 5.1.1 .

2.3.7 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.



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

Chapter 3. Use DIGISTOR by Local Display

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

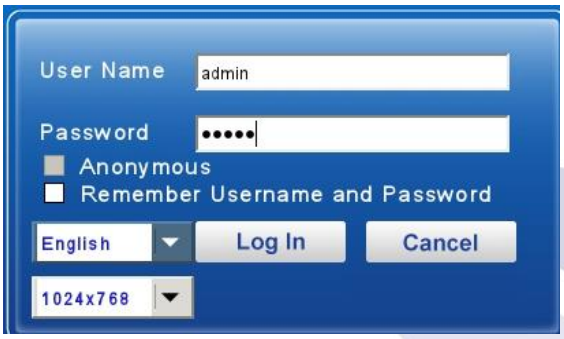
Note: Local display feature is supported by DIGISTOR Pro Series only, including DS-1100 Pro, DS-2100 Pro, DS-4200 Pro Series and DS-8200-RM Pro Series.

To start local display, please check the steps below:

1. Please install at least one hard disk drive in your DIGISTOR.
2. Connect DIGISTOR and IP cameras to the network.
3. Make sure the HDMI or VGA monitor is connected to the port (HDMI or VGA) of DIGISTOR rear panel.
4. Please connect a USB mouse to the USB port of DIGISTOR.
5. Please connect power cord and connector to turn on DIGISTOR.
6. When you enter the log in interface of DIGISTOR, please enter default user name "**admin**" and password "**admin**" and select languages.

3.1 Log in DIGISTOR 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.

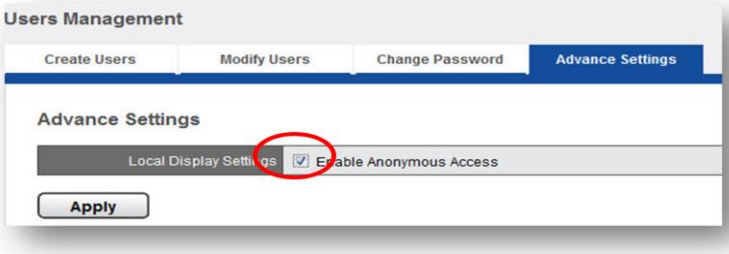
3.1.1 Anonymous login

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 disable. While anonymous login is applied, system will automatically log in without authorization process after boot up.

Start to setup the anonymous login

A. Please go to the user management page of remote web browser, and go to Advance Settings. Check the “Enable Anonymous Access .“



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

3.1.2 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

3.2 Quick Configuration

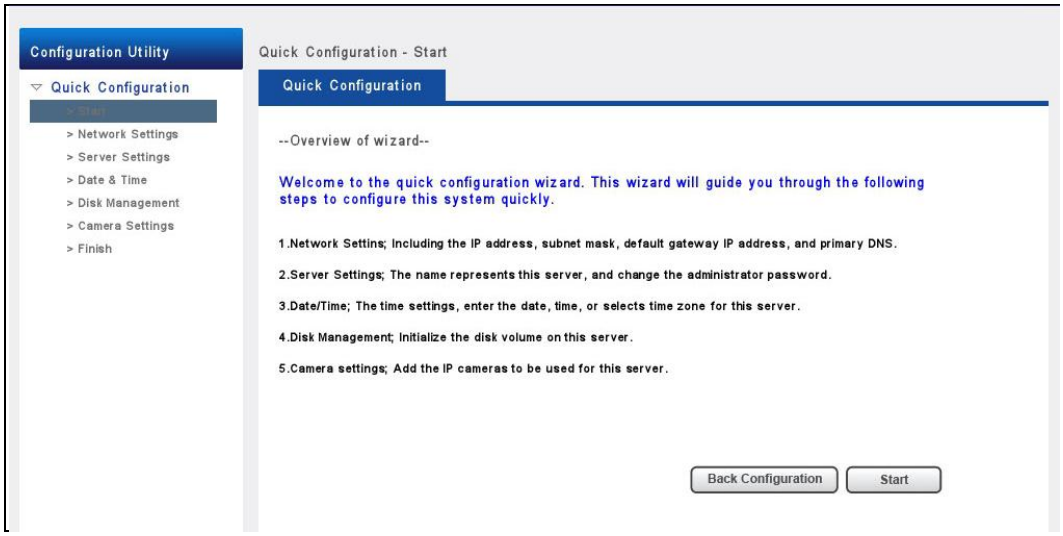
After you log in local display of DIGISTOR, the system will direct you to set Quick Configuration in five main steps. Follow the instructions of the Overview of wizard to complete the system setup.

Please refer to chapter 2.3 Quick Configuration for more information.

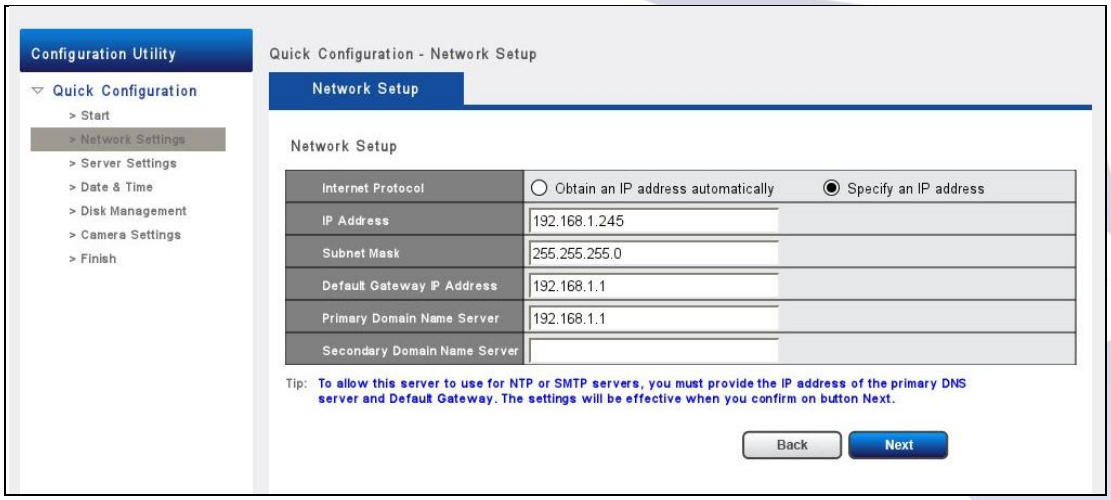
3.2.1 Start

To begin, please study the **Overview of wizard** and the wizard will guide you through five steps to configure the system quickly.

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



3.2.2 Network Settings



- **Obtain an IP address automatically**

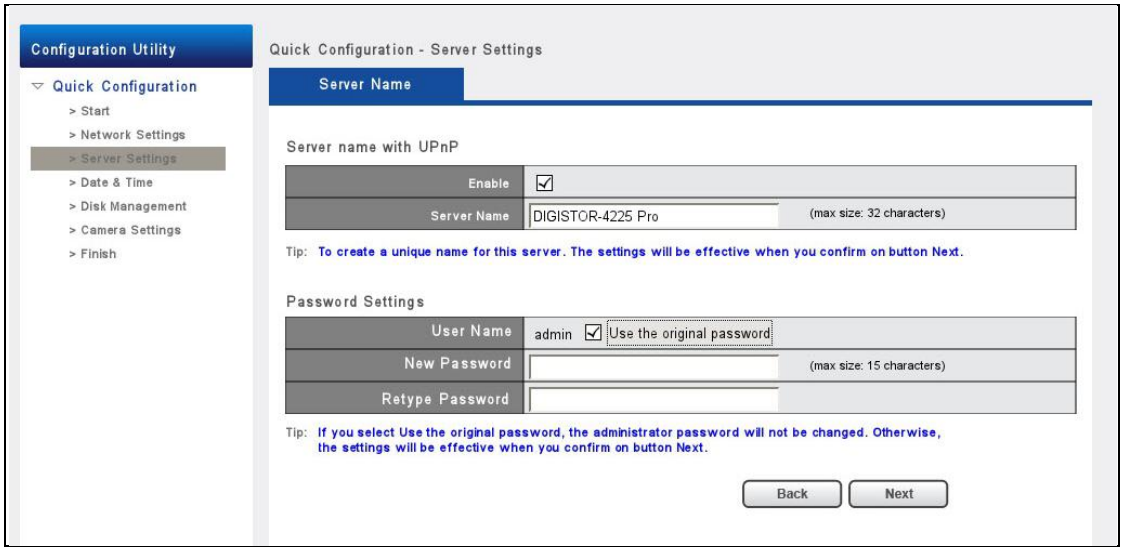
  Obtain an available dynamic IP address assigned by a DHCP server.

- **Specify an IP address.**

  The static IP address can be assigned.

Click "**Next**" to proceed with the configuration.

3.2.3 Sever Settings



- **Server name with UPnP**

Users can select to enable the UPnP function and edit the sever name. Once UPnP is enabled, DIGISTOR can be searched on the intranet (LAN).

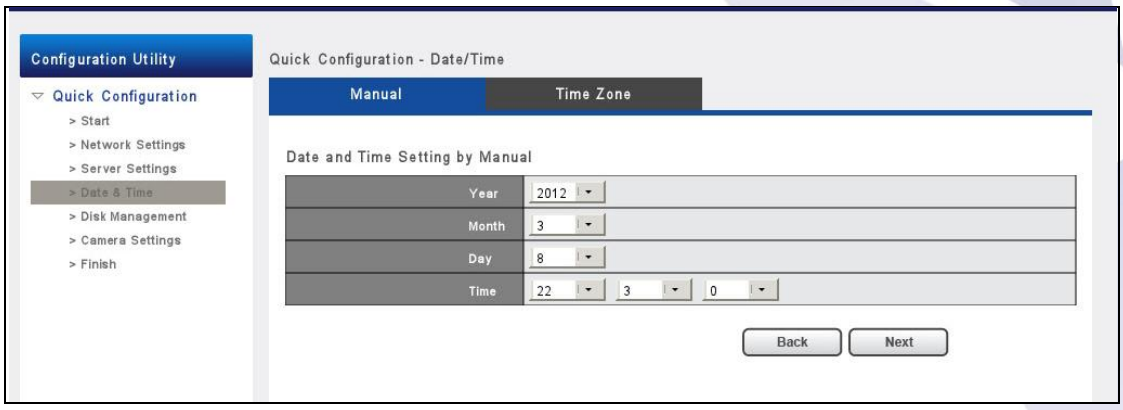
- **Password Settings**

Each DIGISTOR comes with a built-in "**admin**" account with password "**admin.**" It's highly recommended to change the password upon the initial login.

3.2.4 Date & Time

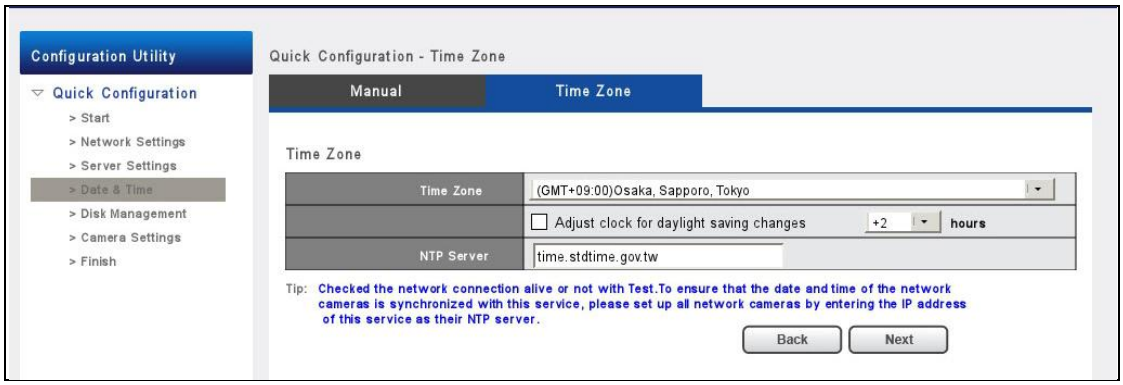
1. Manual setting

Use the drop-down list and configure the time manually.



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

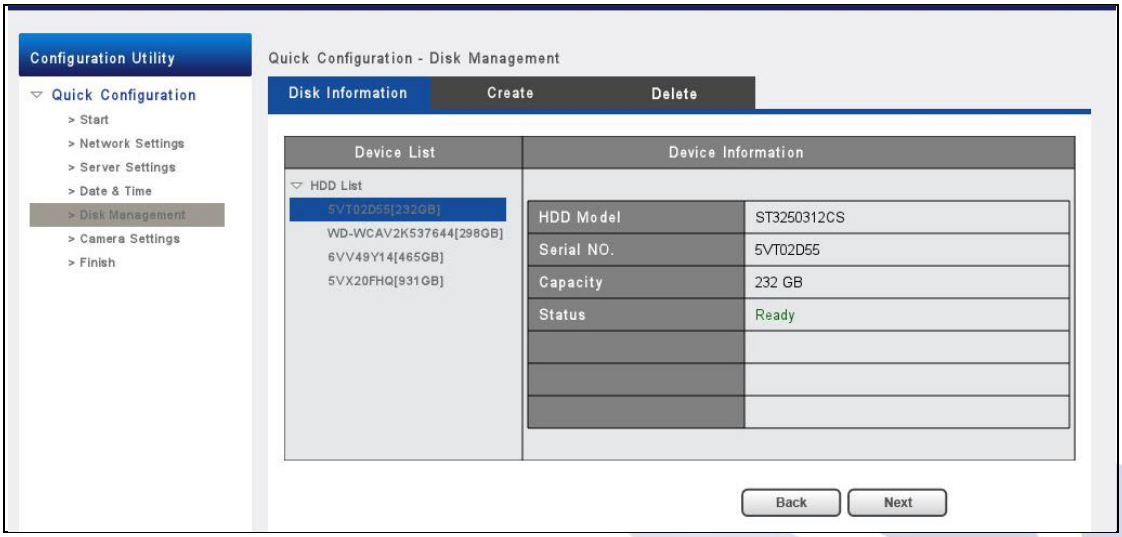
Select the time zone of your area and update the date and time of the DIGISTOR automatically with an NTP server. User also has an option to automatically adjust daylight saving time.



Please click "**Next**" to continue configuration.

3.2.5 Disk Management

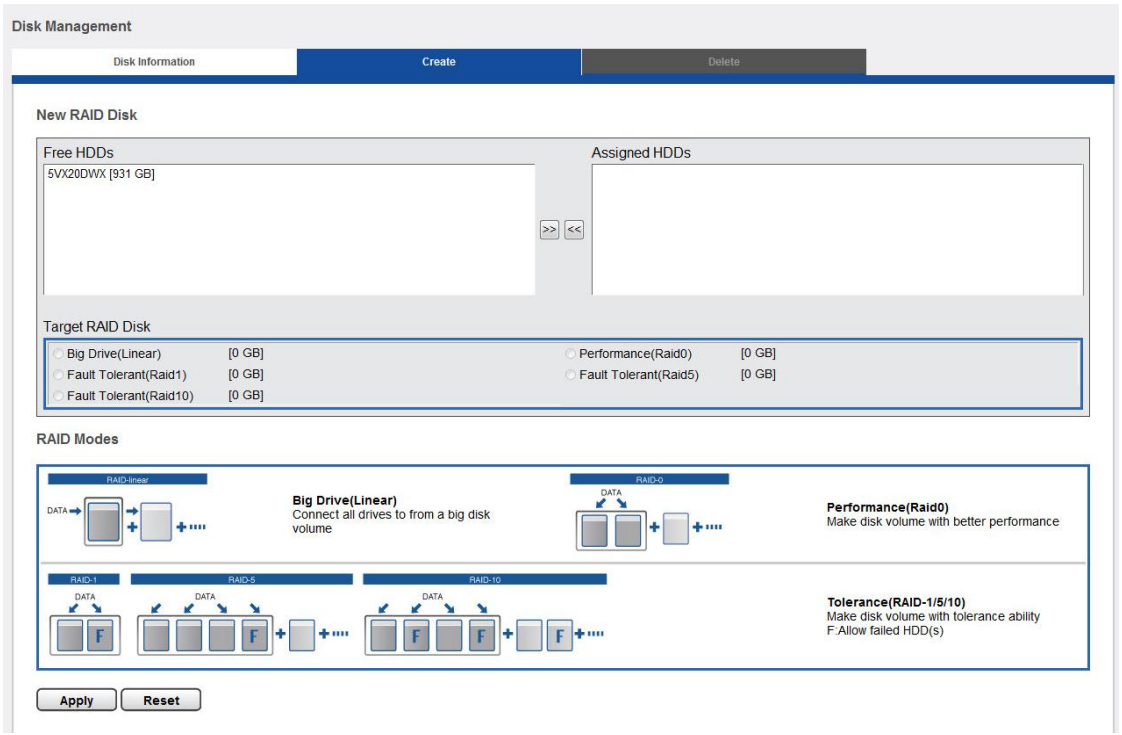
1. Disk Information



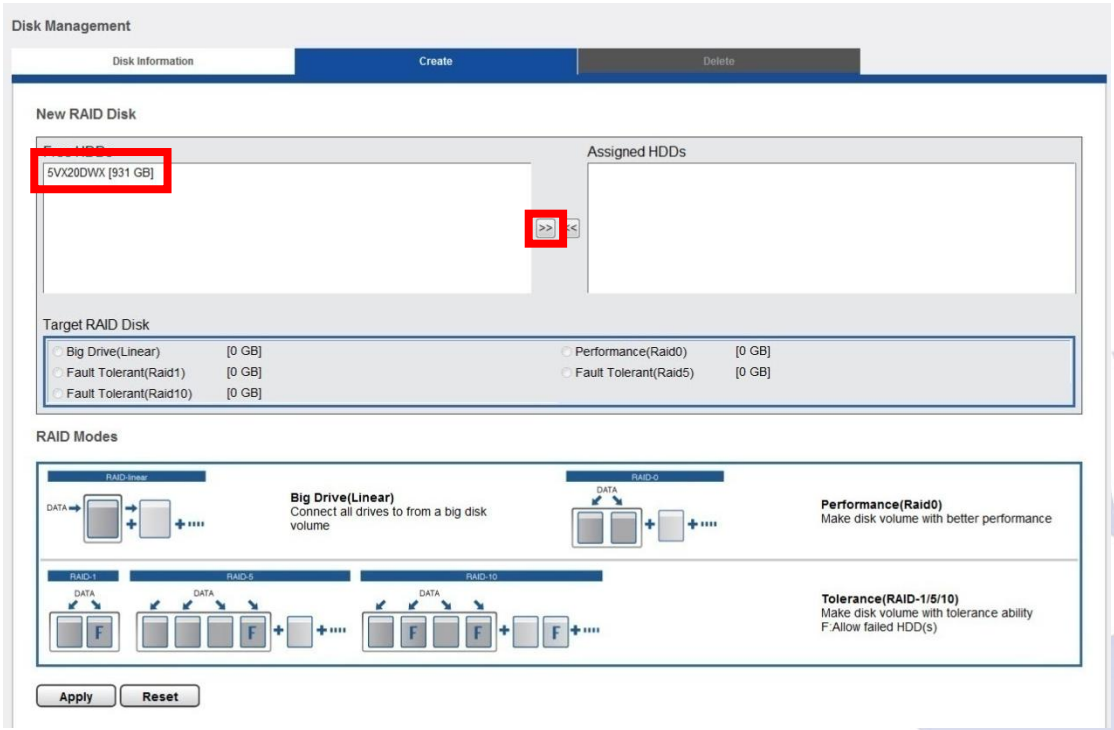
Device Information provides details of the hard disk drive: **HDD Model**, **Serial NO.**, **Capacity** and **Status**.

2. Create

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.

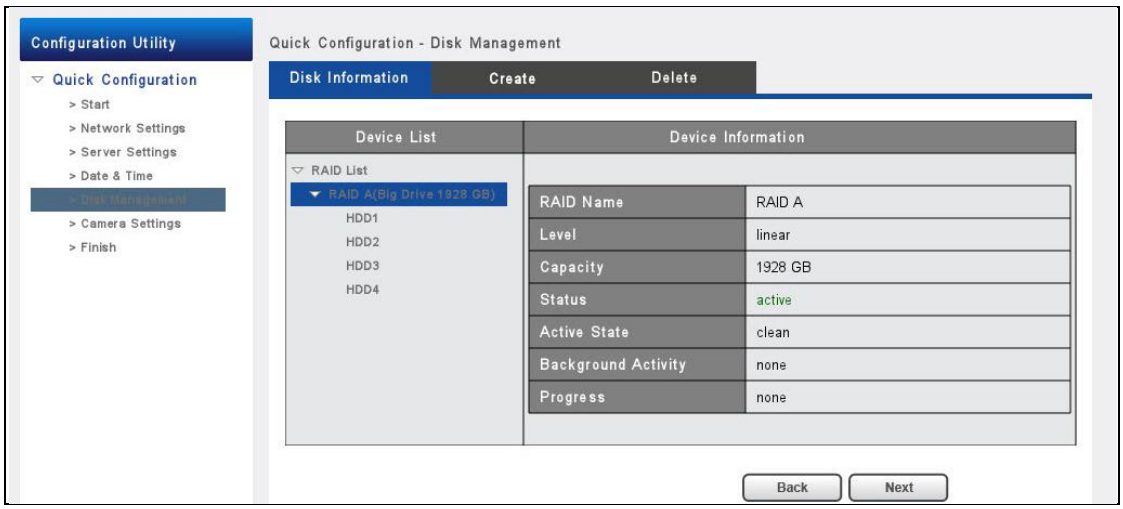


The selected hard disk drive in the Free HDDs field will be highlighted and please click >> to recruit the hard disk drive into Assigned HDDs field.



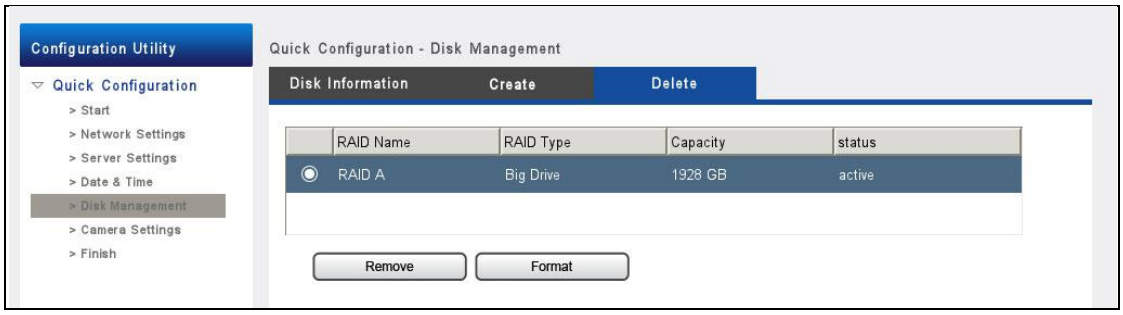
The selected hard disk drive in Assigned HDDs field will be marked in blue. Select a type of disk configuration, and please click "**Apply**."

After the RAID disk is created, RAID List shows RAID Name and available storage devices.



3. Delete

In "**Delete**" option, users can remove or format RAID disk by selecting the **RAID disk**.



- **Remove**

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.

- **Format**

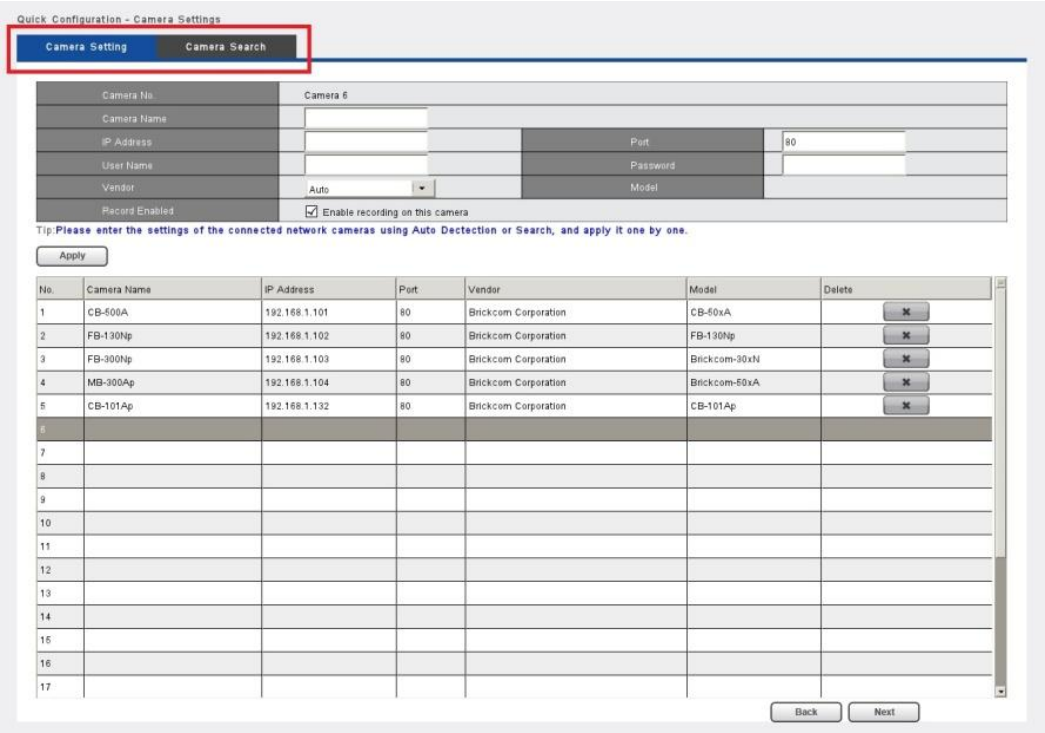
Click "**Format**" to format the RAID disk, all recorded videos will be deleted.

3.2.6 Camera Settings

Camera settings

There are two options for adding a new camera:

1. **Camera Search**
2. **Auto Detection**

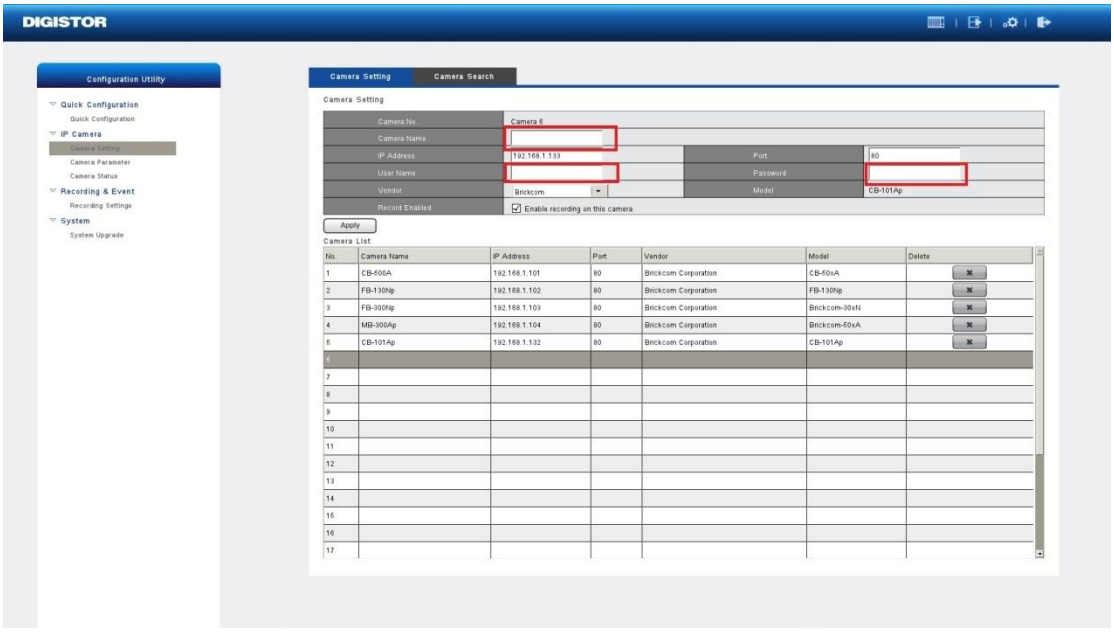


1. **Camera Search**:

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

Add cameras by clicking "**+**" from the list one by one.

Users should manually enter **Camera Name**, **User Name**, and **Password.** Then click "**apply**" to submit the settings.

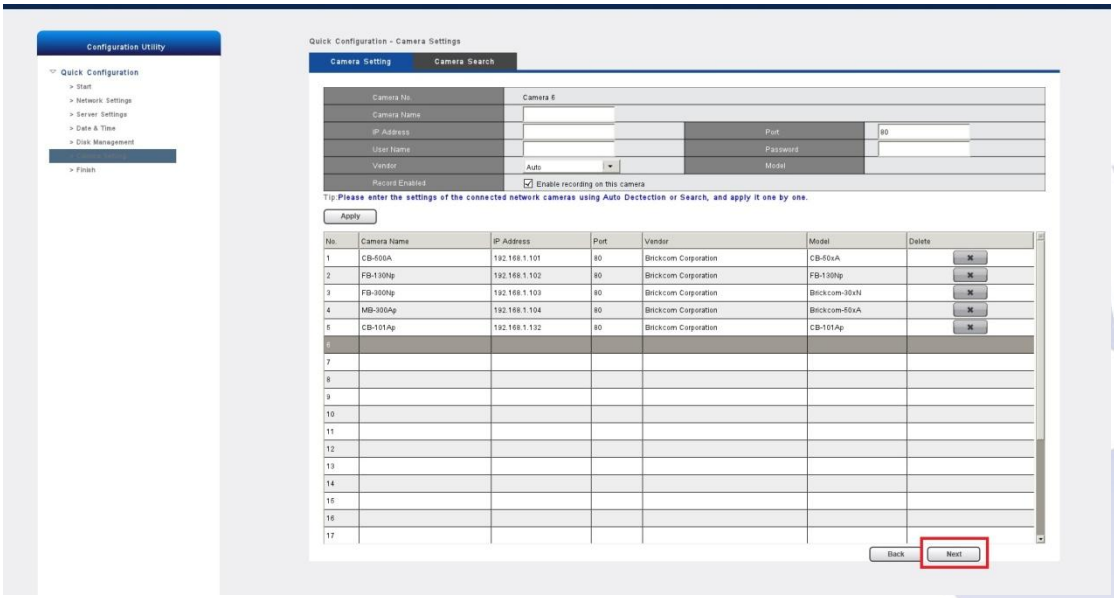


Applied cameras will be shown in the Camera List.

2. **Auto Detection**:

Manually enter **Camera Name, IP Address, User Name**, **Password** and select the **vendor** or **Auto**, then click "**Apply**" to start connecting to the IP camera.

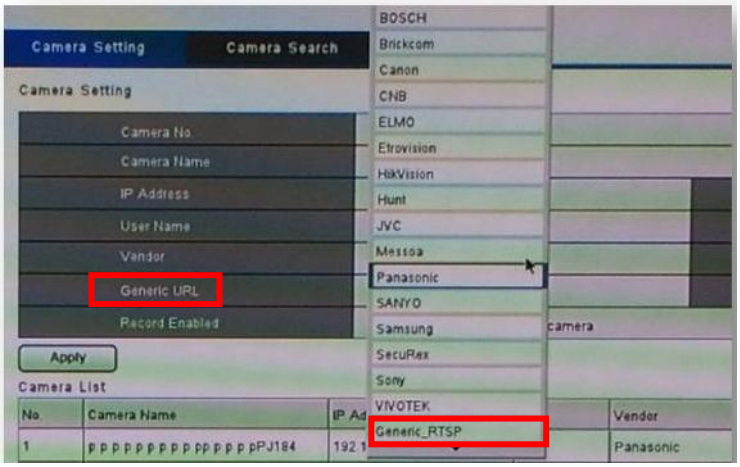
All applied cameras will be shown in Camera List. Please click "**Next**" to proceed.



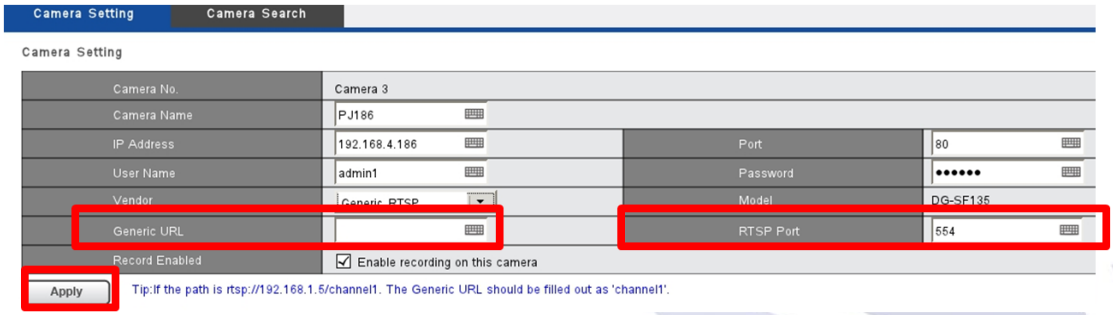
Generic RTSP/ Generic MJPEG

DIGISTOR NVR provides the interface for users to enter RTSP/ MJPEG URLs of IP cameras to receive the video streaming from IP cameras. The streaming can be used in live view, recording and playback.

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



Please enter the Generic URL column with proper RTSP or MJPEG URLs.
If Generic RTSP method is selected, RTSP port should be filled out too.
Click “apply” to submit the settings.

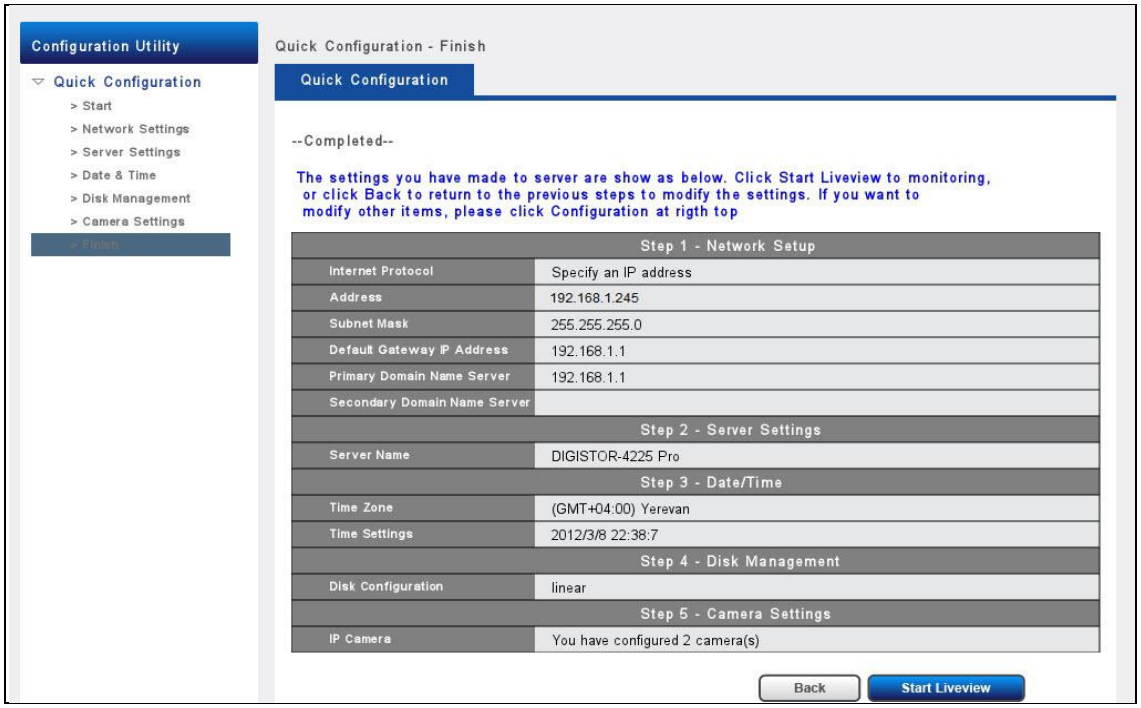


⚠The most correct URLs should be provided from each camera vendors.
⚠Users may also refer to websites

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

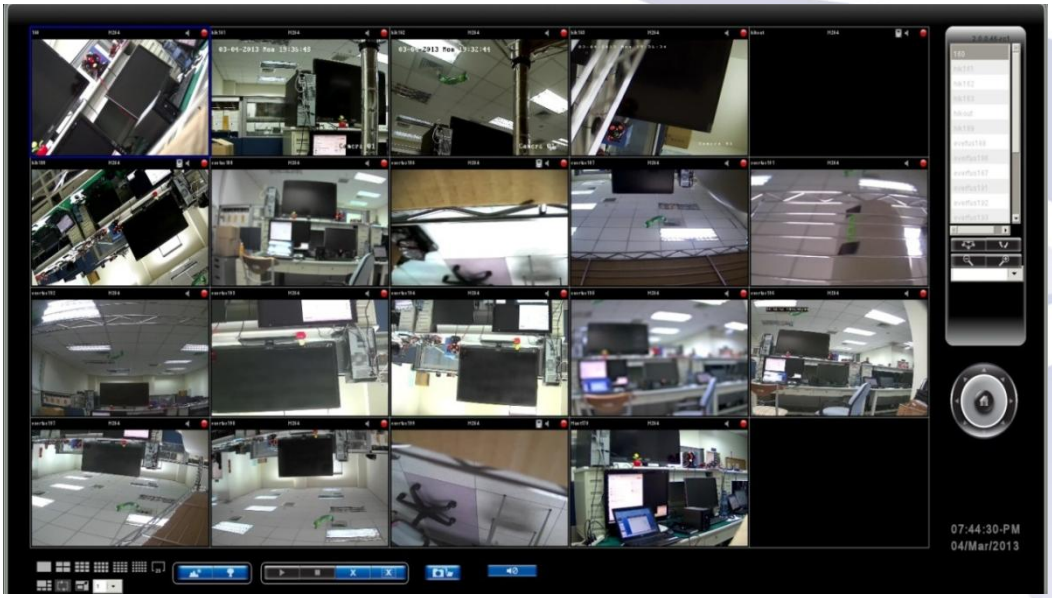
3.2.7 Finish

Once five steps of Quick Configuration are complete, the window will show a completed status.



3.3 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.



Firmware version

User can easily find out the firmware version in the 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 DIGISTOR.

Display mode

DIGISTOR 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.

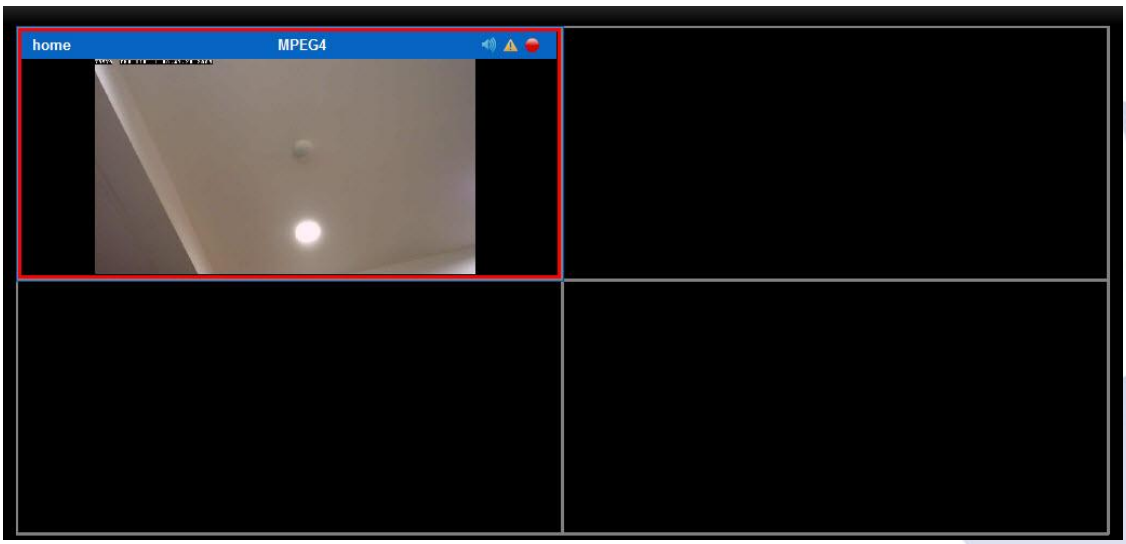
Icon	Description
	Full Screen
	1 screen
	4 screen
	9 screen
	12 screen

	16 screen
	20 screen
	25 screen
	5+1 screen
	Sequential mode

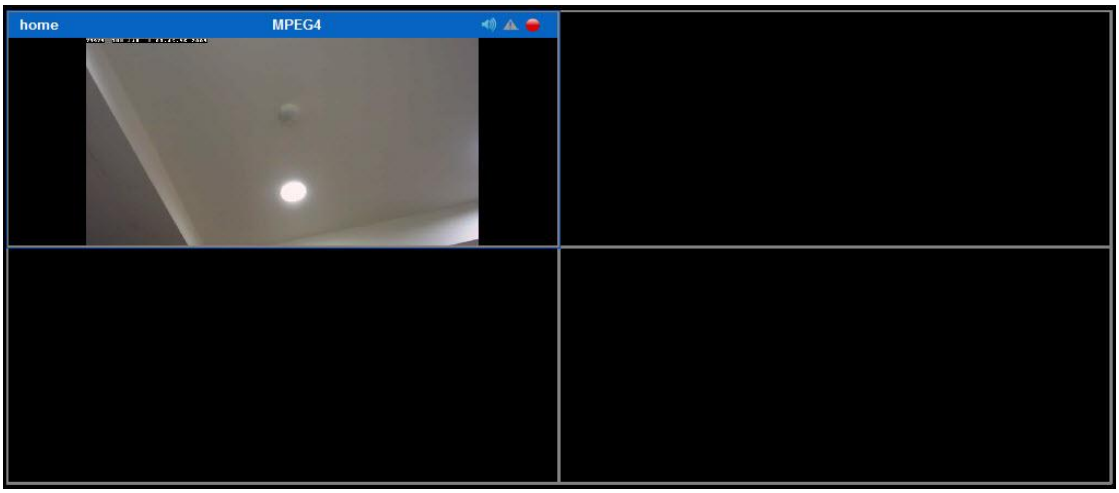
Icon	Description
	Play: Start monitoring.
	Stop: Stop monitoring.
	Drop: Drop the camera from monitoring.
	Drop all: Drop all cameras from monitoring.

Warning frame

A red warning frame will be shown on the channel when a motion event is detected.



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

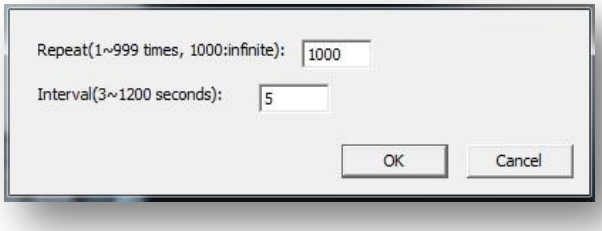


The warning frame can be enable/disable, please refer to Chapter 4. 1.2

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
	**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.
	**Preset positions**: Select the preset positions which are defined in PTZ camera and the camera will move to the position that user selects.
	**Optical zoom out/ Optical zoom in**: If camera supports PTZ control, adjust the PTZ camera to zoom out or zoom in.
	**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.

	
	**Schedule for PTZ**: Click "**Go**" to start PTZ patrol schedule.

Exchange Streaming Type

DIGISTOR 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.

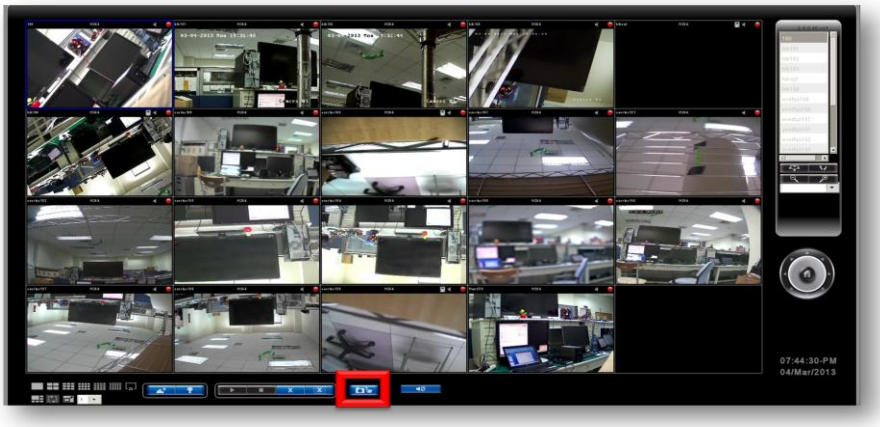
To switch the different streaming, users can select the channel in live view page and right click the mouse to show the list.

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

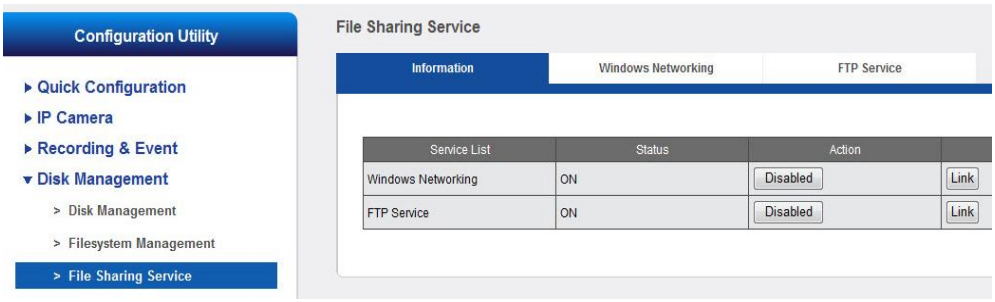
When "Optimize" is disabled, users can manually adjust streaming type, which will be memorized in different display modes.

Snapshot of live view in local display

Snapshot in live view allows users to capture the live view image in local display.



The snapshot image can be found in the folder – **Public/liveview_snapshot**. It can be access through **Windows Networking** or **FTP** service at File Sharing service in Configuration page.



CPU Loading Indicator

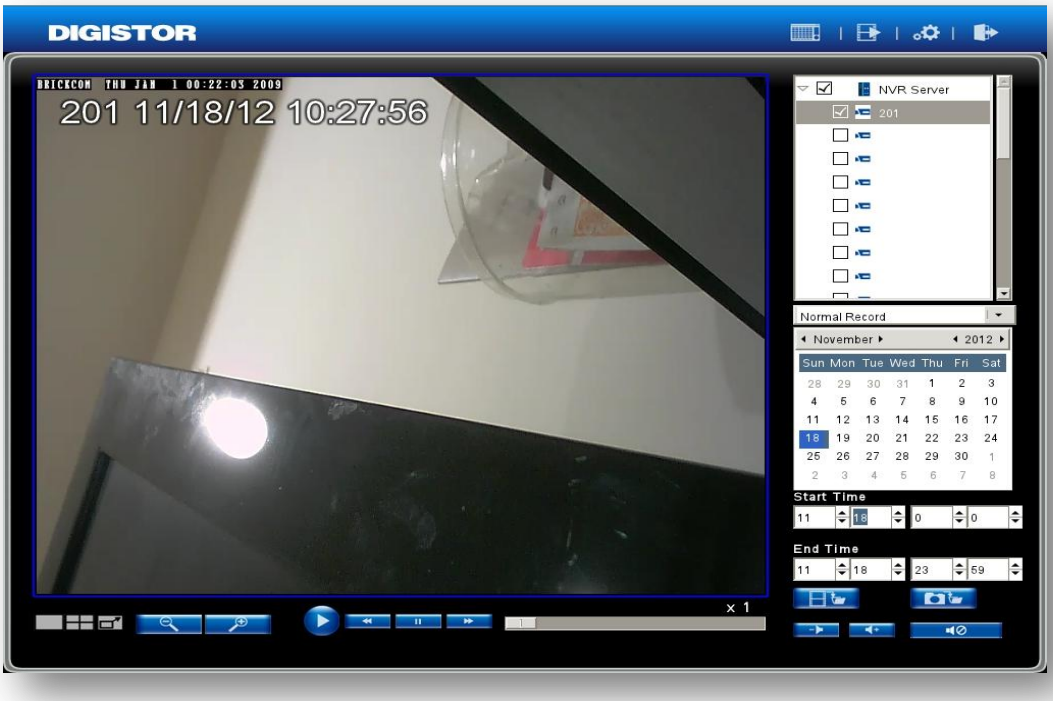
CPU indicator in live view helps users to know the CPU loading immediately.

CPU indicator shows blue when the CPU loading is 70% or under, and shows red as warning when it reach to more than 70%.

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

3.4 Playback

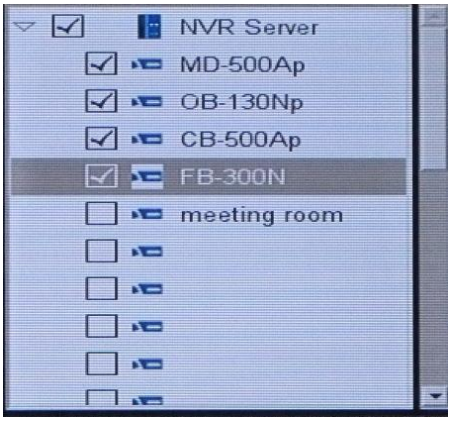
Playback is a function that allows users to view recorded videos from cameras connected to the DIGISTOR. DIGISTOR offers synchronized playback up to four cameras and easy steps provided to help user sort through the recorded videos quickly.



3.4.1 Steps to Search Playback Videos

Select cameras

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



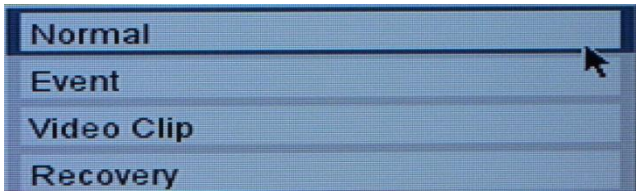
Select time period:

Users can designate the specific time for the playback video.

If the selected cameras have recorded videos in the indicated period of time, dates will be shown in a blue background.

Select the type of recorded videos:

There are four types of recorded videos: Normal, Event, Video Clip and Recovery.



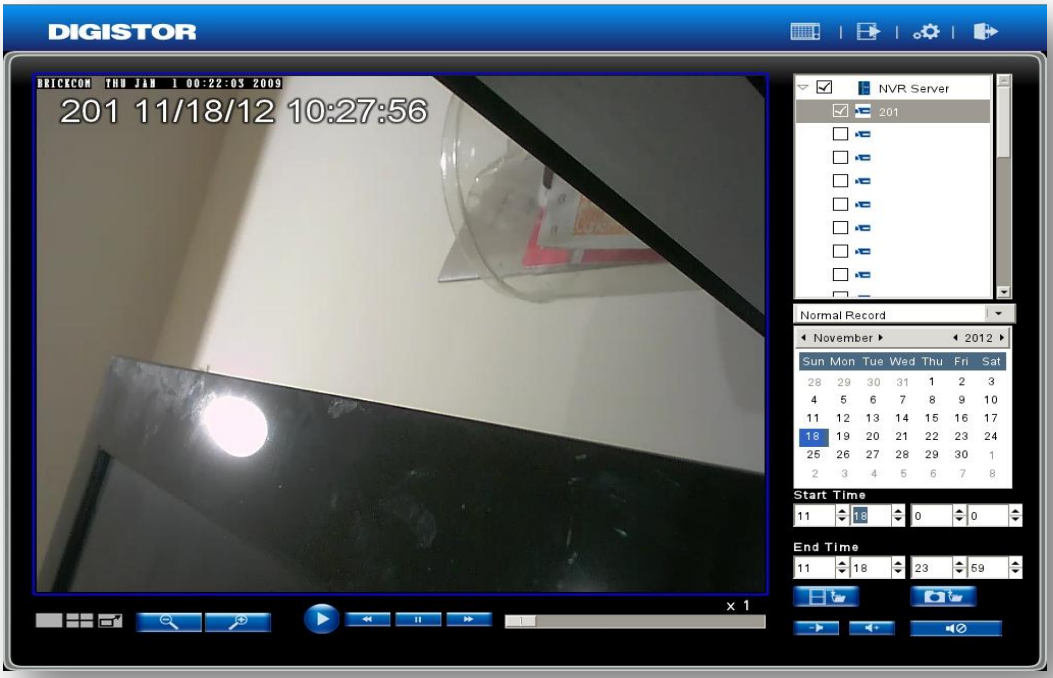
After selecting the video type and time period, click the play button  to start playback.

3.4.2 View Playback Videos

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.

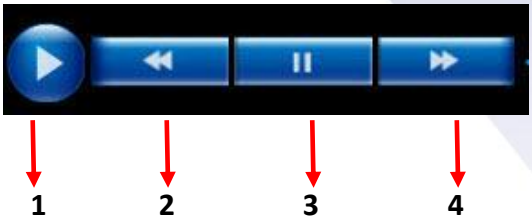


Digital zoom in and digital zoom out

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 play speed control

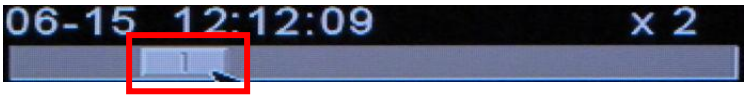


1. **Play**: Click the button to play video file.
2. **Speed down**: When you click "**speed down**," the recorded video will play in slower speeds.
3. **Pause**: to temporarily stop the playback.
4. **Speed up**: When you click "**speed up**," the recorded video will play faster.

The play speed is displayed above the seek bar.

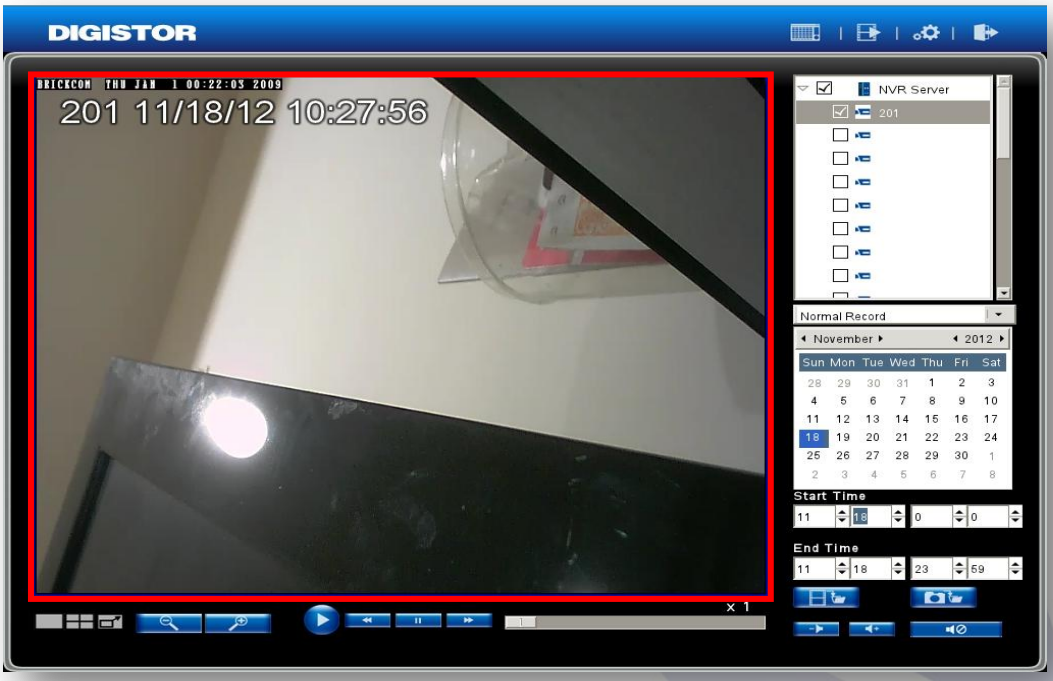
Seek Bar

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



3.4.3 Playback Audio

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



Volume adjustment

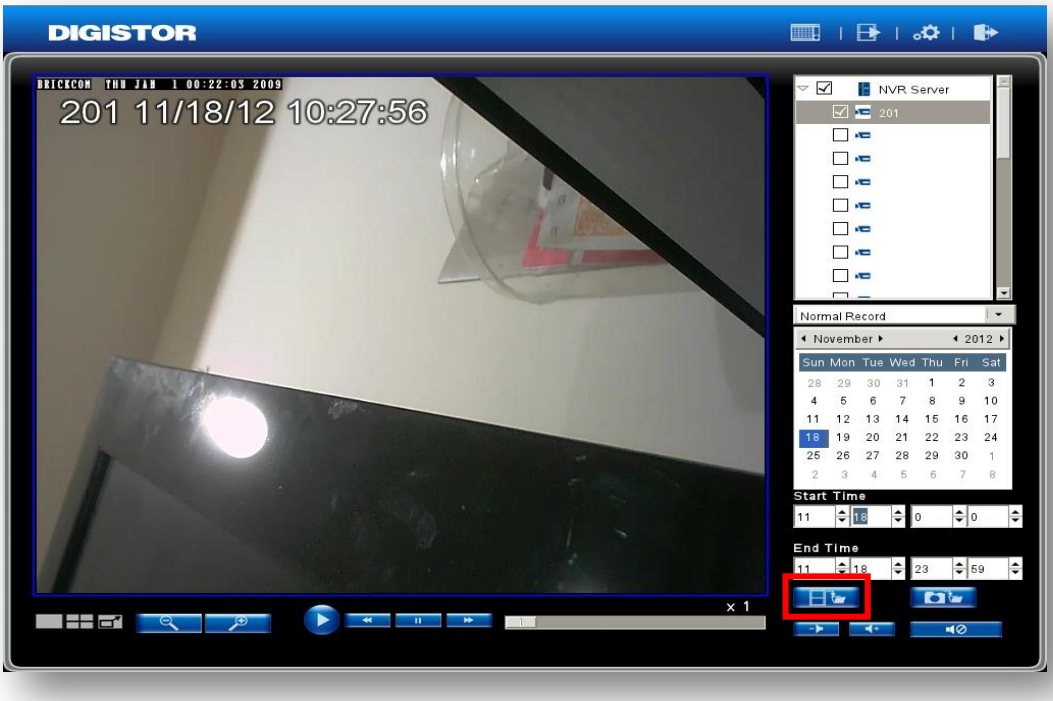
After channel selection, users can adjust the volume by using volume button.

Audio mute

The mute function disables audio for all playback channels.

3.4.4 Export Files

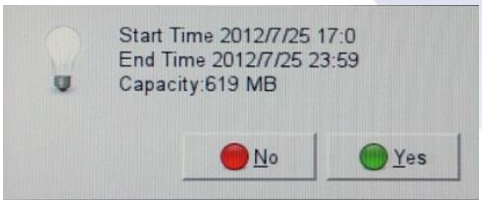
Export function allows users to export file to **USB device** or **USB type DVD burner** directly.



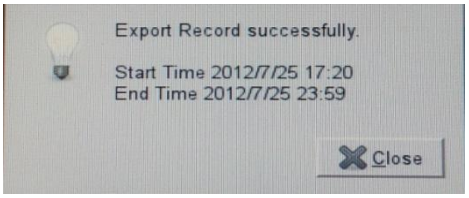
Please select cameras, video file types, date and the time period first, and then click the export button to copy the files.

Users will be asked whether DIGIPlayer and DIGICheck should be downloaded with video files.

- DIGIPlayer is the player for watching recording files from DIGISTOR NVR.
- DIGICheck is the verification tool to verify if the recorded files are originated from DIGISTOR NVR.



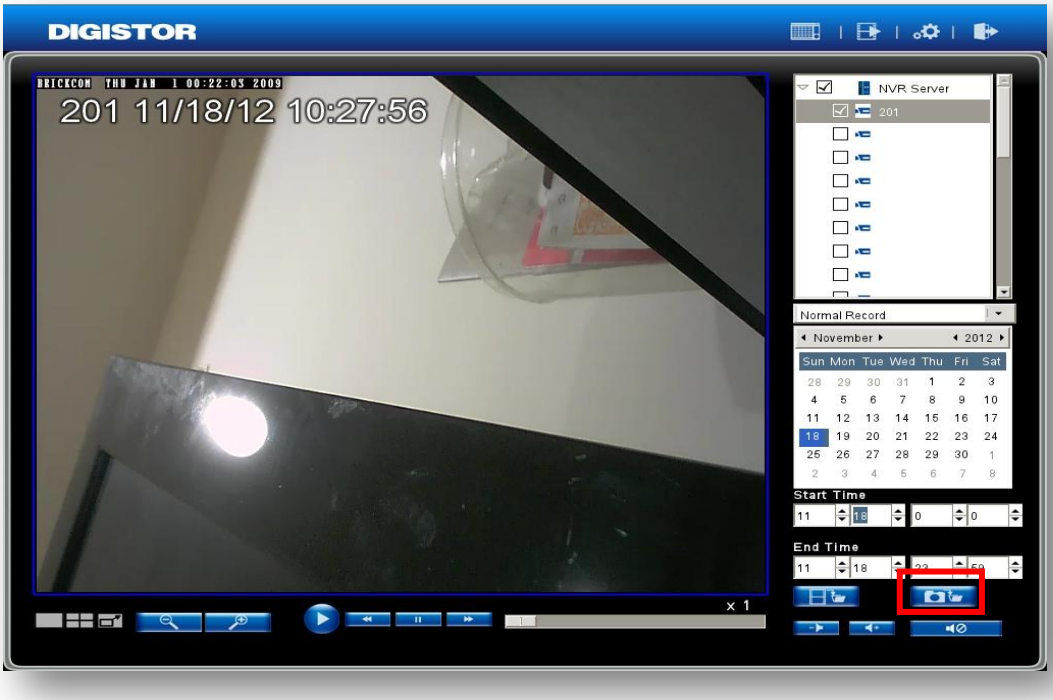
Users can check start time, end time and capacity before implement the files export.



If the export is successful, the message will be shown as above.

3.4.5 Snapshot of Playback

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.



3.5 Others

3.5.1 Screenshot in Local Display

Press "PrtSc SysRq"  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. Please refer to chapter 5.3.3 .

Chapter 4. Use DIGISTOR by Remote Web Browser

Users can adopt Microsoft Internet Explorer to monitor the network camera and view playback.

4.1 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.

4.1.1 Select View Modes on Live View Page

On top right of live view, user 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 DIGISTOR.

4.1.2 Main Functions for Live View

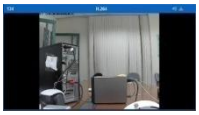
1. Firmware version:

Users can find out the firmware version directly without entering configuration page.

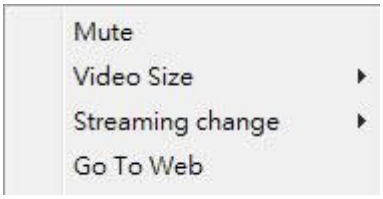
The function of each button will be briefly described below:

2. 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, DIGISTOR shows audio in blue. Vice versa, DIGISTOR shows audio in grey.
	**Event**: When event happens, DIGISTOR shows warning to user for instant alert.

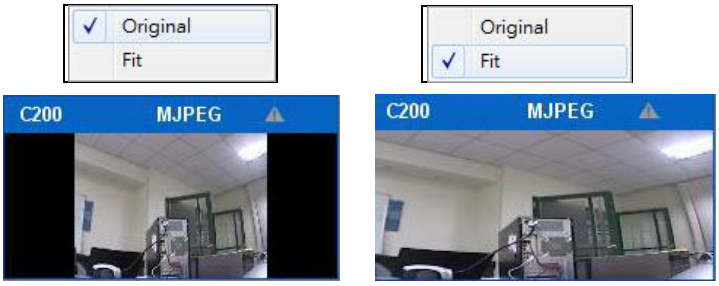
	**Recording status**: The window shows whether camera is recording or not.
	**Desired grid**: The outline border surrounds the desired window grid to highlight the focus image.

Right click video window:



Mute: To mute the audio of the video

Video Size: Original or Fit



Streaming change: To exchange the streaming resource.

Go To Web: Go to camera configuration page

3. 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
	10 screen

	12 screen
	16 screen
	20 screen
	25 /30/ 36/49 screen
	5+1 screen
	7+1 screen
	12+1 screen
	Sequential mode  Click  to choose the page of liveview. In option,  Users can set sequential interval in user-defined seconds for display mode.

4. Basic function:

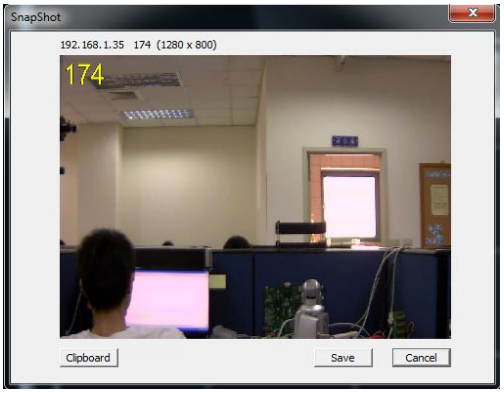
Icon	Description
	**Cameras list**: The camera status is enabled/ dropped in live view.
	**Play**: Start monitoring.
	**Stop**: Stop monitoring.
	**Drop**: Drop the camera from monitoring.
	**Drop all**: Drop all cameras from monitoring.
	**Zoom out** / **Zoom in**: Select a channel to enable digital zoom function.
	**Camera information**: Consist of Camera Name, IP address, bit rate, and status.

5. Remote IO:

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

6. Snapshot:

Click on the "**Snapshot**"  to save snapshots. Then, a window will pop up to display the image.



There are three functions for snapshot:

1) **Clipboard**:

Copy the image to device's temporary memory. User can paste image to graphics painting program such as Paint for advanced editing.

2) **Save**:

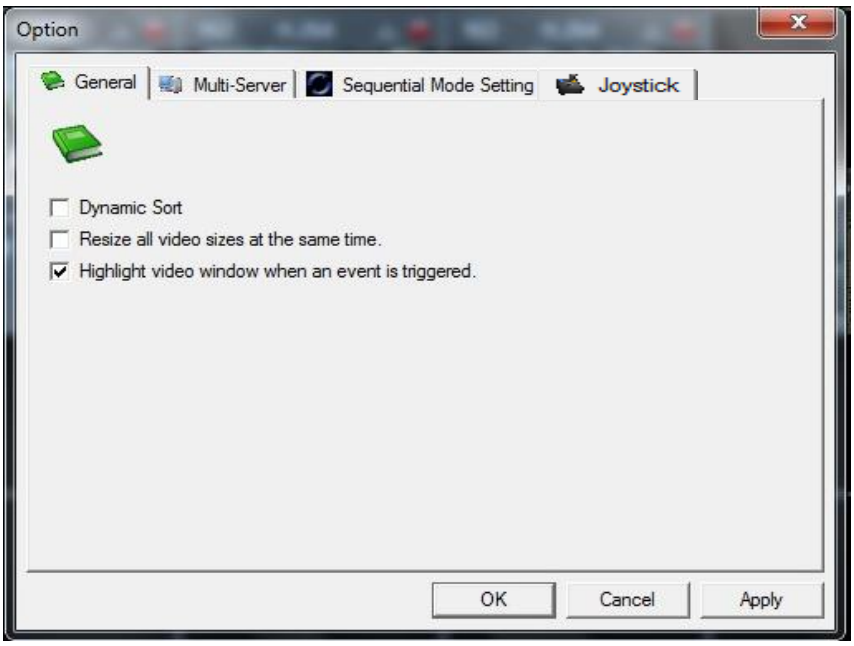
Save image to default path.

3) **Cancel**:

Cancel snapshot.

7. Option:

1) General:



- **Dynamic sort**:

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

- **Resize all video images at all time**

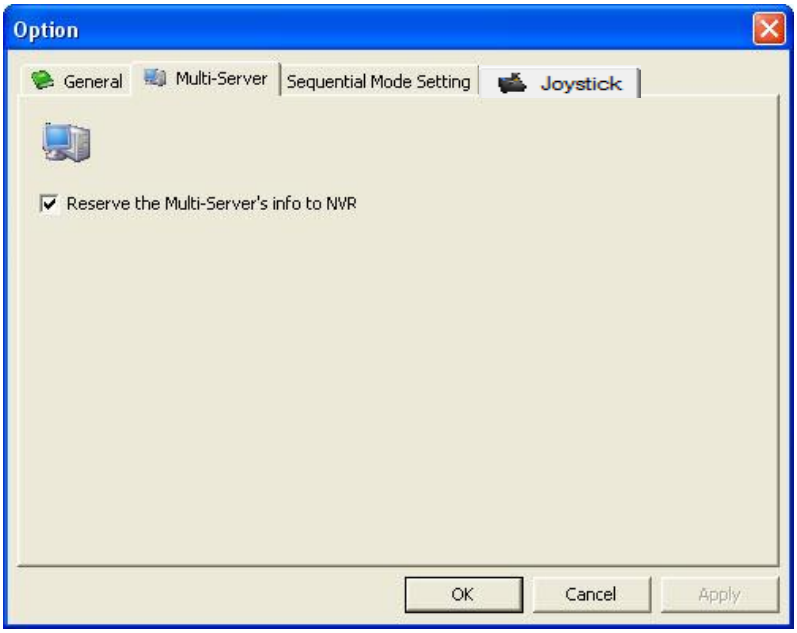
Only a right click on the video, users can set "all" video size either in original size or fit size.

- **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.

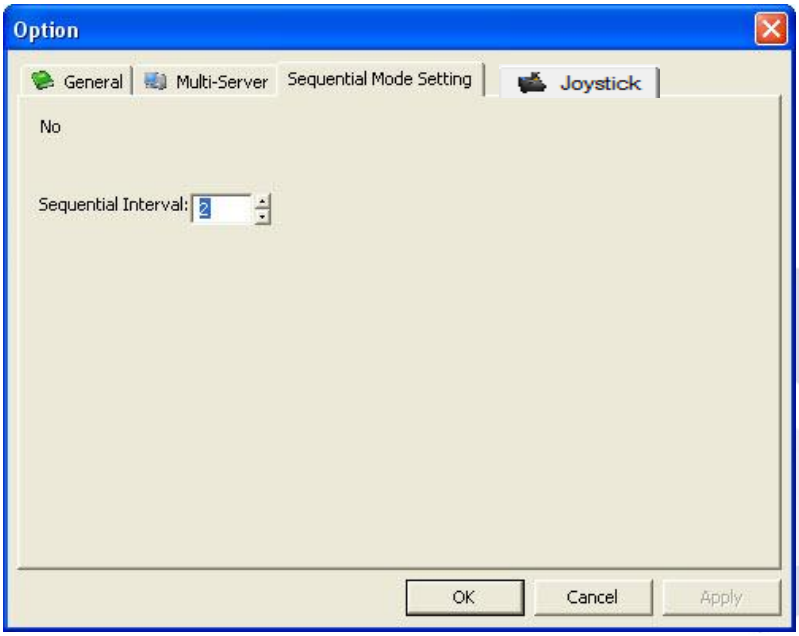
2) Multi-Server:

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



3) Sequential Mode Setting:

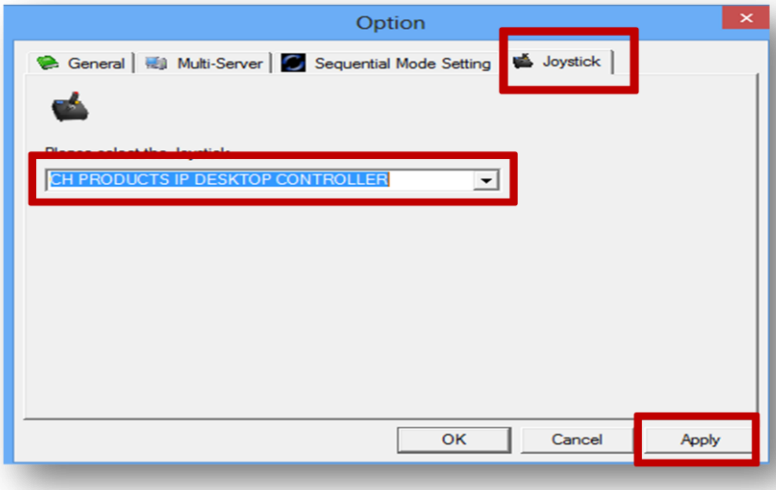
Click sequential interval to set the numbers of user-defined seconds for sequential mode.



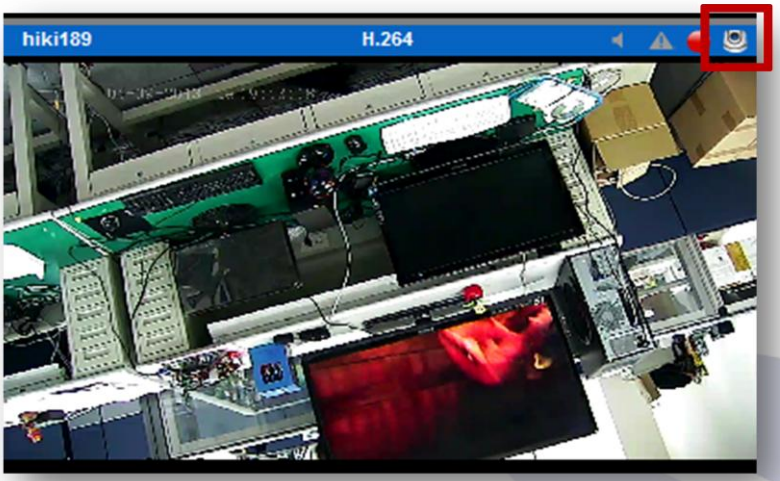
4) Joystick

Users are able to manipulate PTZ camera with USB joystick.

Choose the joystick column and select joystick model then press ‘‘Apply’’



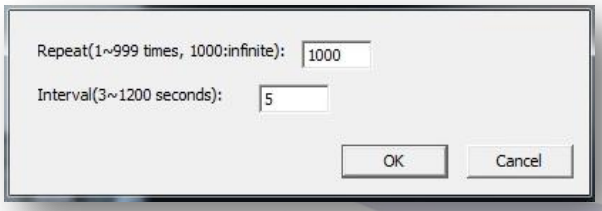
Joystick can work on PTZ cameras as the status bar is with PTZ icon.



⚠ **Note**: Supported Brickcom joystick model - IP Desktop only for now.

8. PTZ Control Panel

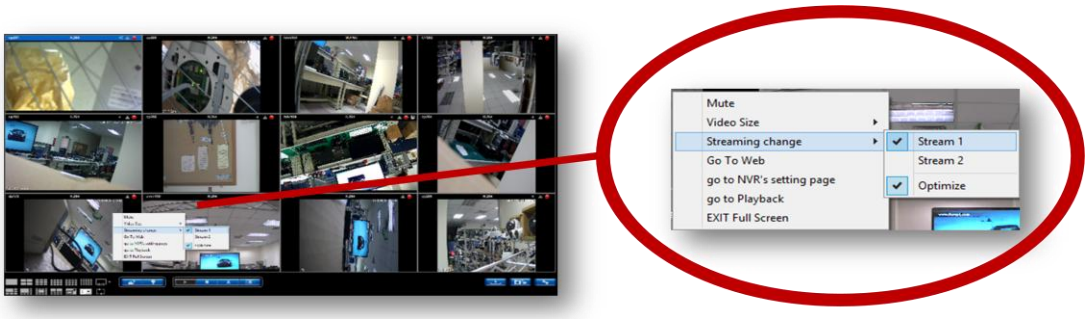
If IP camera supports PTZ function, users can use the control panel to adjust the viewing angle. The following functions are available depending on the camera models.

Icon	Description
	**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.
	**Preset positions**: Select the preset positions which are defined in PTZ camera and the camera will move to the position that user selects.
	**Optical zoom out/ Optical zoom in**: If camera supports PTZ control, users can adjust the PTZ camera to zoom out or zoom in.
	**Schedule for PTZ**: Select "**Set**" to set camera preset position. (reserved) It can open the dialog to set how many times PTZ cruise to repeat and how many seconds stay between each preset point 
	**Schedule for PTZ**: Click "**Go**" to start PTZ patrol schedule.

9. Exchange Streaming

DIGISTOR 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.

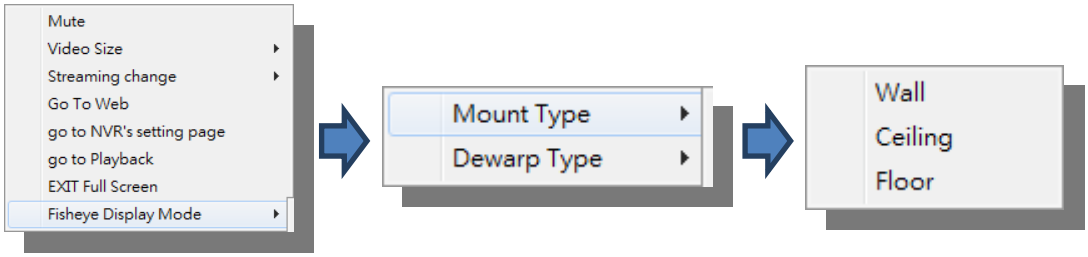


When “Optimize” is enable, streaming type will be adjusted automatically for different display modes.
When “Optimize” is disabled, users can manually adjust streaming type, which will be memorized in different display modes.

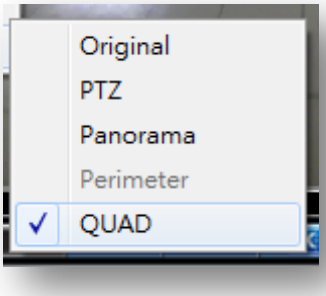
10. Dewarp for fisheye cameras

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

a. Choose mounting type:



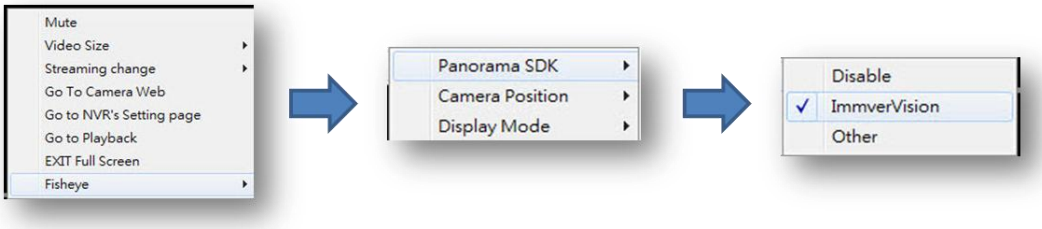
b. Choose dewarp Type :



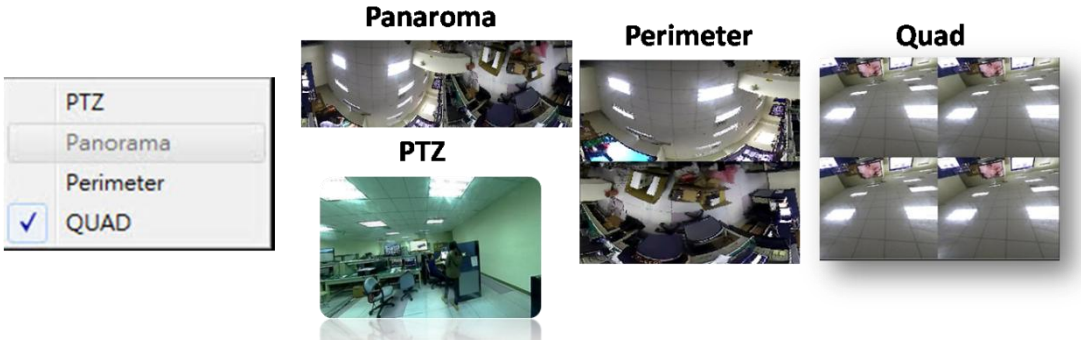
11. Dewarp for Immervision Lenses

By right click on the video, users can choose the proper dewarp engine for cameras with Immervision lenses

1. Choose dewarp type:



2. Chosse display mode:

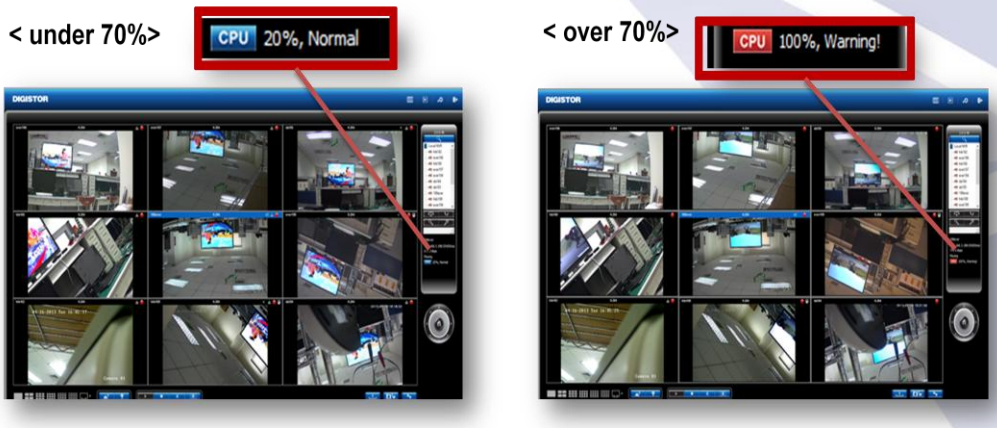


12. CPU Loading Indicator

CPU indicator in live view can help users to know immediately the CPU loading.

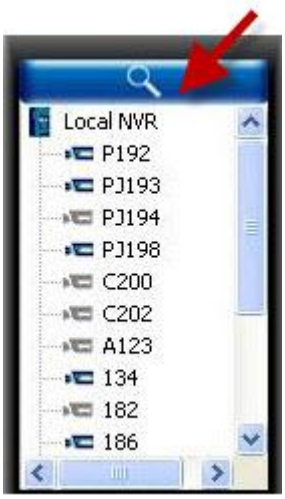
CPU indicator shows blue when the CPU loading is 70% or under, and shows red as warning when it reach to more than 70%.

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.

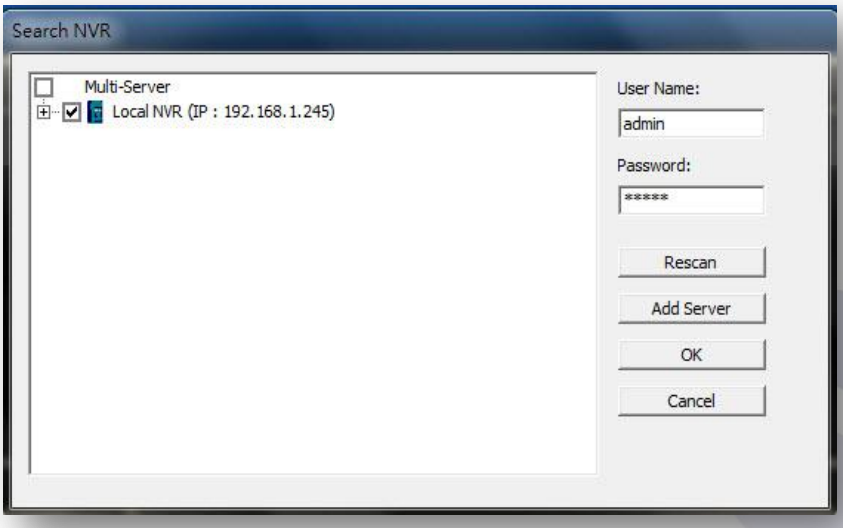


4.1.3 Multi-NVR server

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

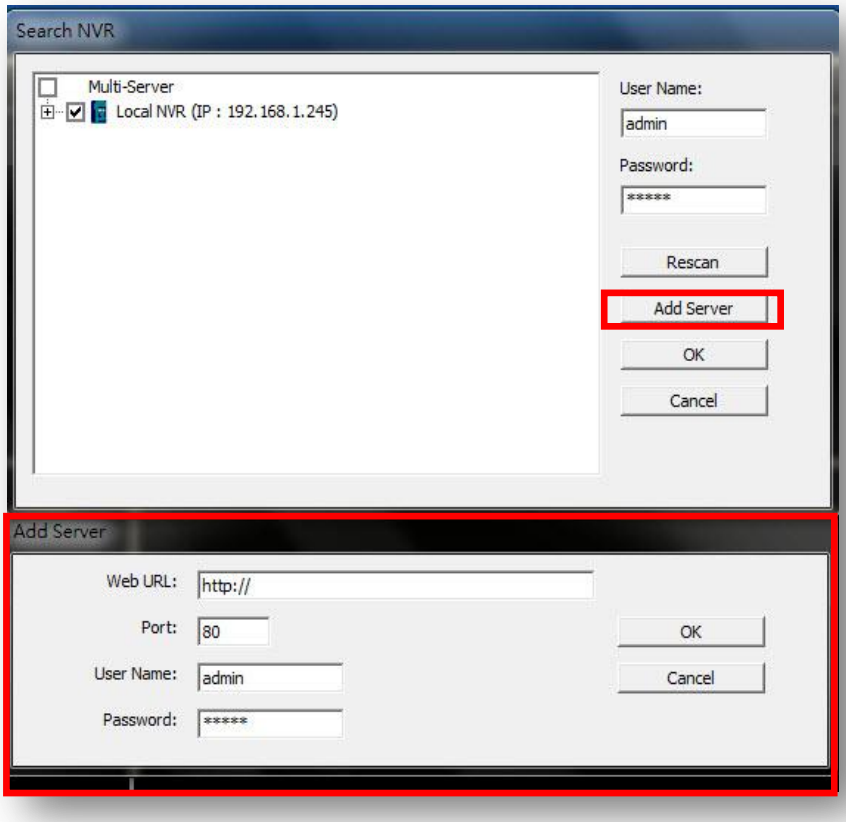


Please insert account and password of the NVR which you are going to add to the local server, and then the NVR which is located in LAN will appear, including the local NVR. Click cameras up to 144 channels to add them into camera list. Click "**Ok**" to add cameras or rescan to search for NVR again.



Add Server

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



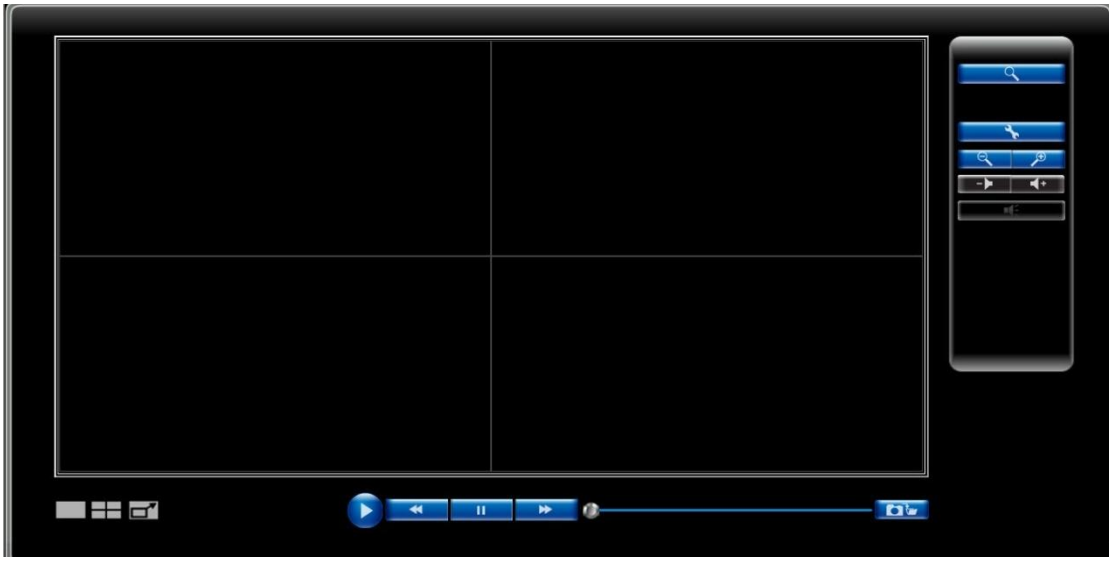
4.2 Playback

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

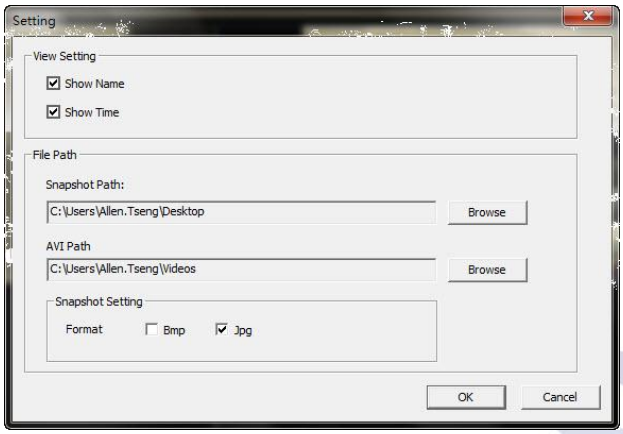
Playback video can be viewed in full screen and snapshots can be taken and saved during a video playback.

4.2.1 Steps to Search Playback Videos

Before viewing the recorded videos, two buttons "**Preference**"  and "**Search**"  are offered to search the recorded videos for playback.



- **Preference**: Please click the button to set snapshot path, the formats of Bmp or Jpg ,and AVI path for recorded files download from NVR server.



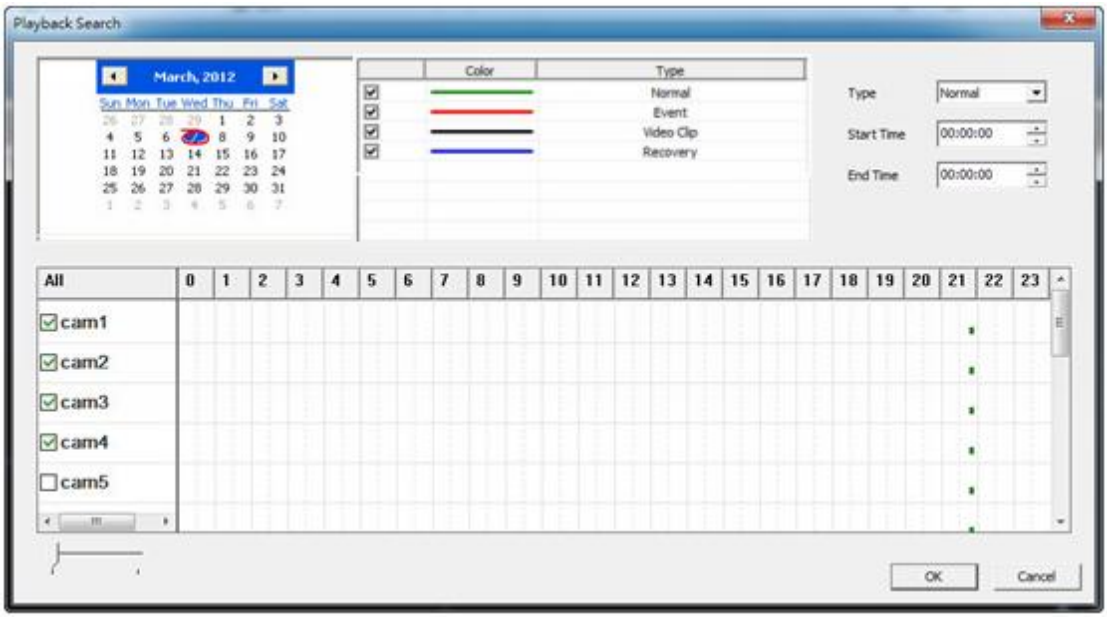
- **Search**: Please click the button to open recorded videos and refer to introduction in the following description.

Follow the four steps below to quickly search recorded videos:

1. Select date from the calendar.
2. Select normal, event, video clip or recovery file
3. Select the channel number.
4. Select the video from Time table.

1. Select Date from the Calendar

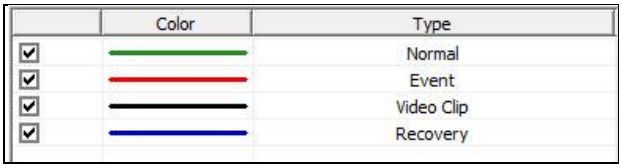
Select the date to search recorded videos.



Select a date that provides recorded video, the date will be marked in blue

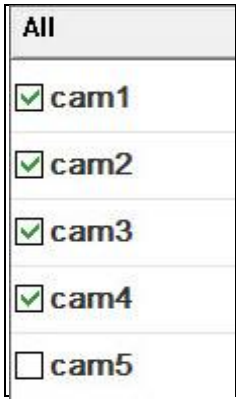
2. Select Normal, Event or Recovery file

Users can select three types of video file which is also displayed in Time table. These three type of video file is distinguished from different colors.



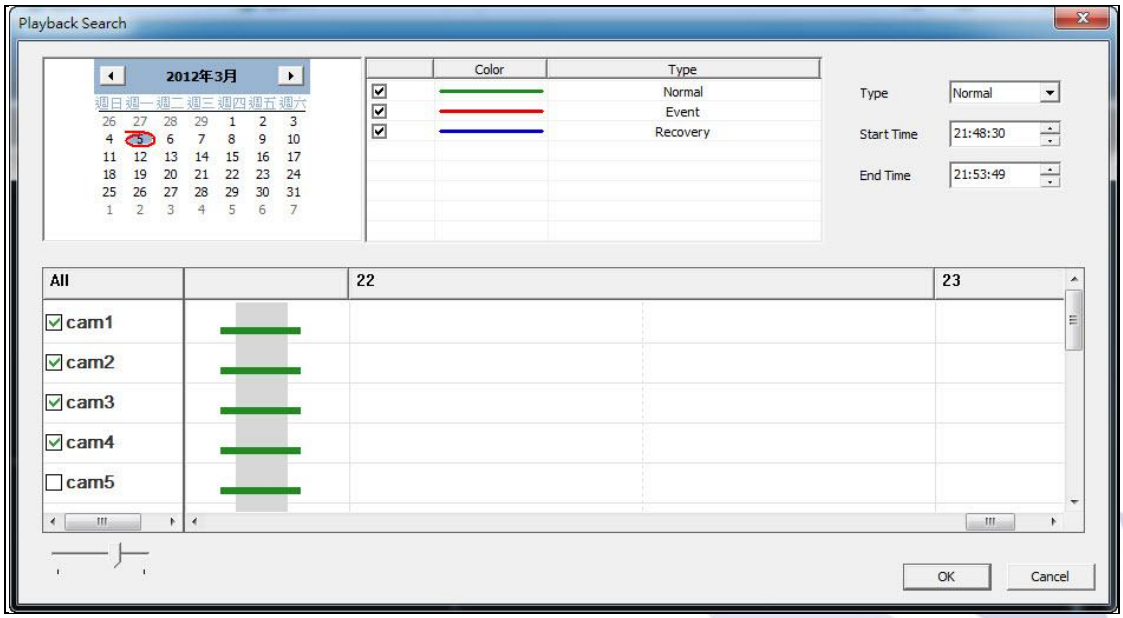
3. Select the Channel Number

Select channel number to search recorded videos. Up to 4 channels can be selected at the same time.



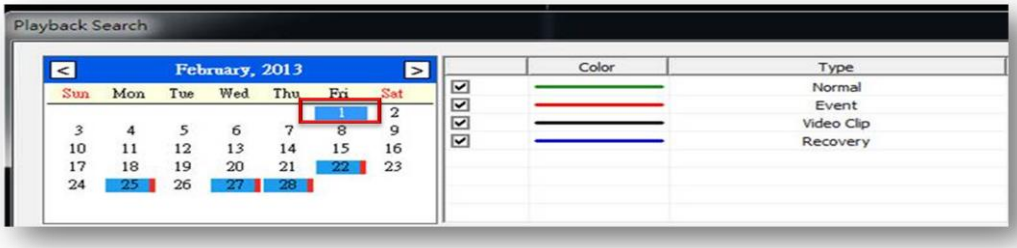
4. Select the Video from Time Table

After selecting date, video file types and cameras, users can select the time period of video files and the results will be highlighted in grey boxes in Time table.

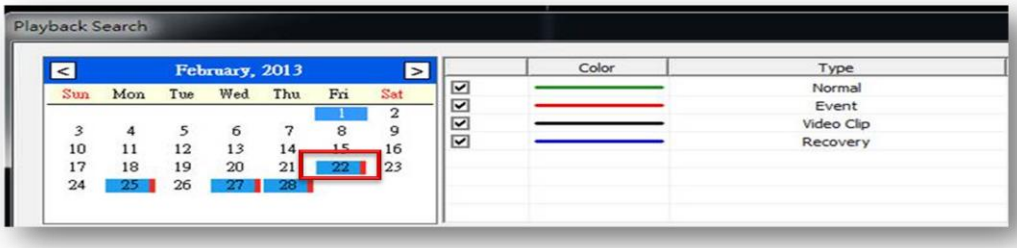


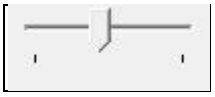
Different recording types are presented in different color in playback calendar in remote browser.

If there is only normal recording in the specific date, the date will be remarked as blue.

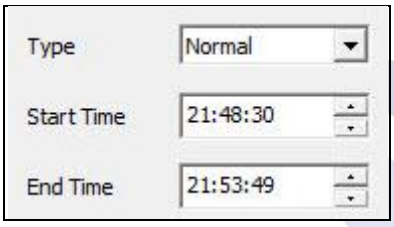


If there is an event recording in the specific date, the date will be remarked as blue with red stripe aside.



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

After selecting different types and time period of video files , a section will show information you selected.



Finally, click "**Ok**" to start playback.

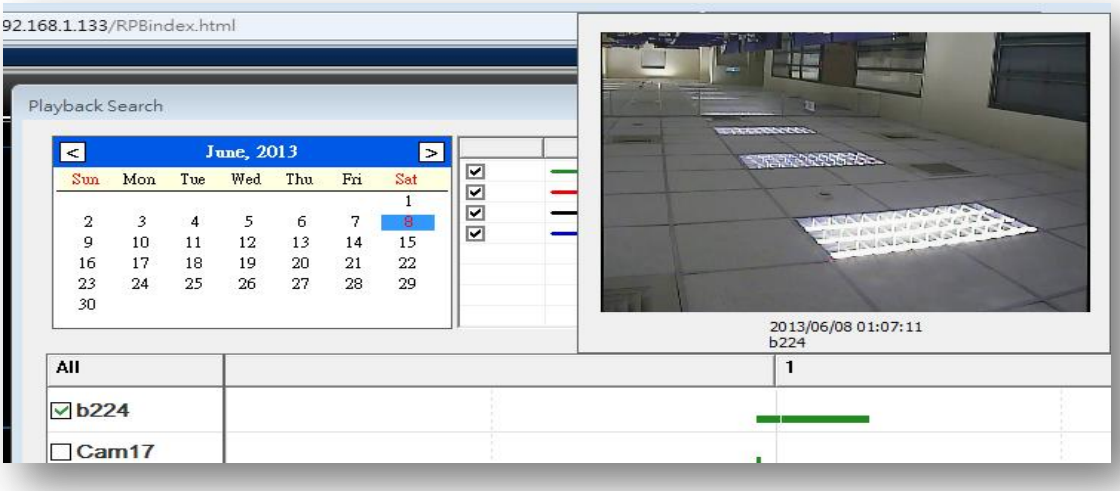
Thumbnail in Playback

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 move on the footage.



4.2.2 View Playback Videos

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.

Users can select different buttons to play the videos:

1. **Play**: To play video file.
2. **Speed down**: Recorded video will move slower and the minimum speed is 1/32 X.
3. **Pause**: To temporarily stop the playback.
4. **Speed up**: Recorded video will move faster and the maximum speed is 32X.

Snapshot

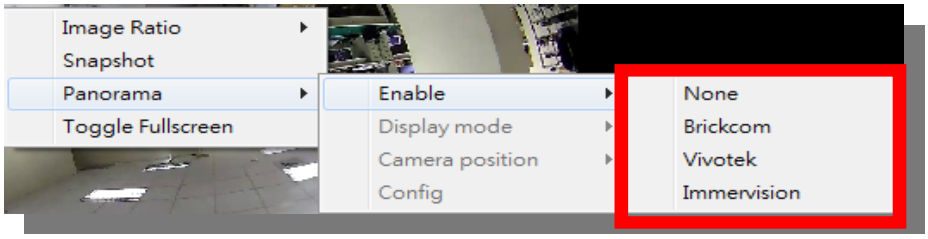
Users can save the image of playback by clicking "**Snapshot**"  .

Before taking snapshot from NVR, users are recommended to set snapshot path from "**Preference**"  .

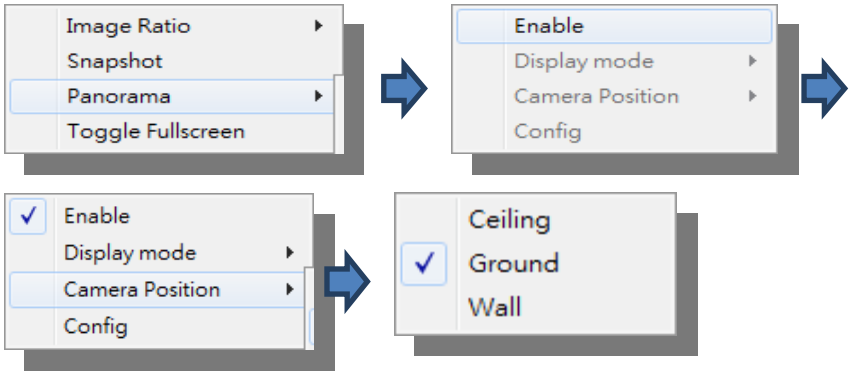
Dewarp for fisheye cameras

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

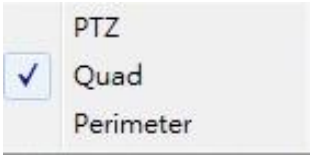
a. Choose the dewarp engine:



b. Choose the mounting type



c. Choose the display mode

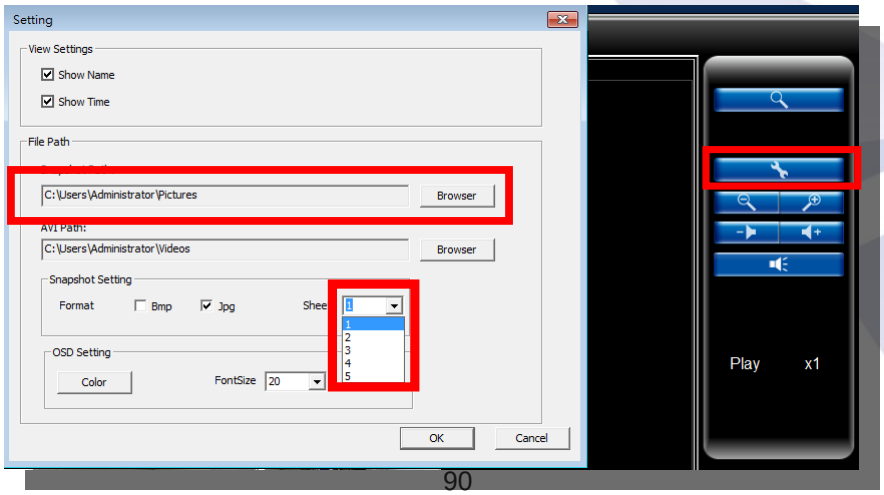


Sequential snapshot in remote playback

Users can have the sequent images from recording video while in playback.

It helps users to catch the key frame in the recording files.

It can be setup up to 5 sequential snapshot.

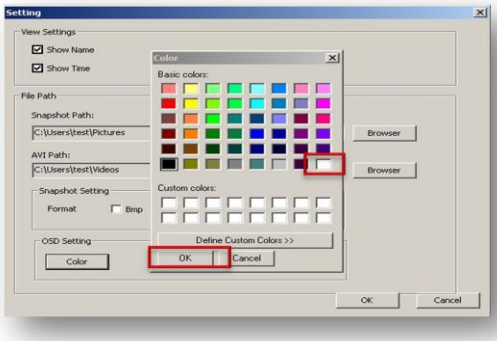


Change OSD color

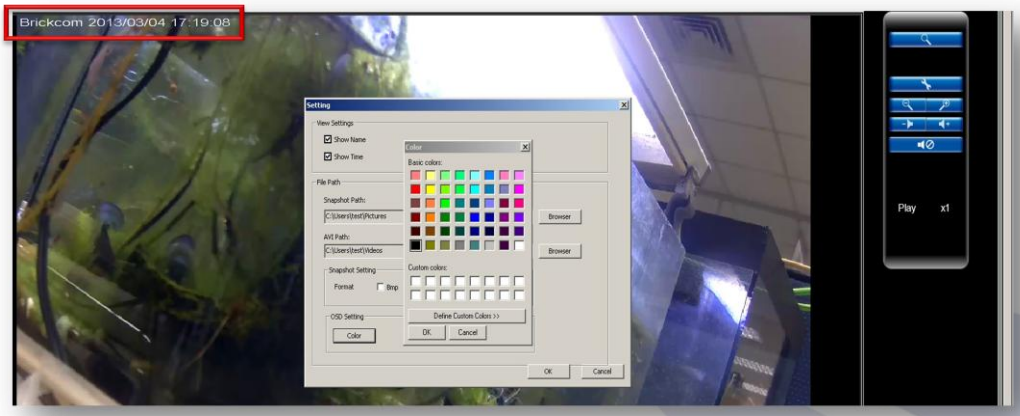
Users can select different OSD color while having the playback of recording files.

1. Click “preference”

2. Click OSD color setting button the select the OSD color and click “OK”

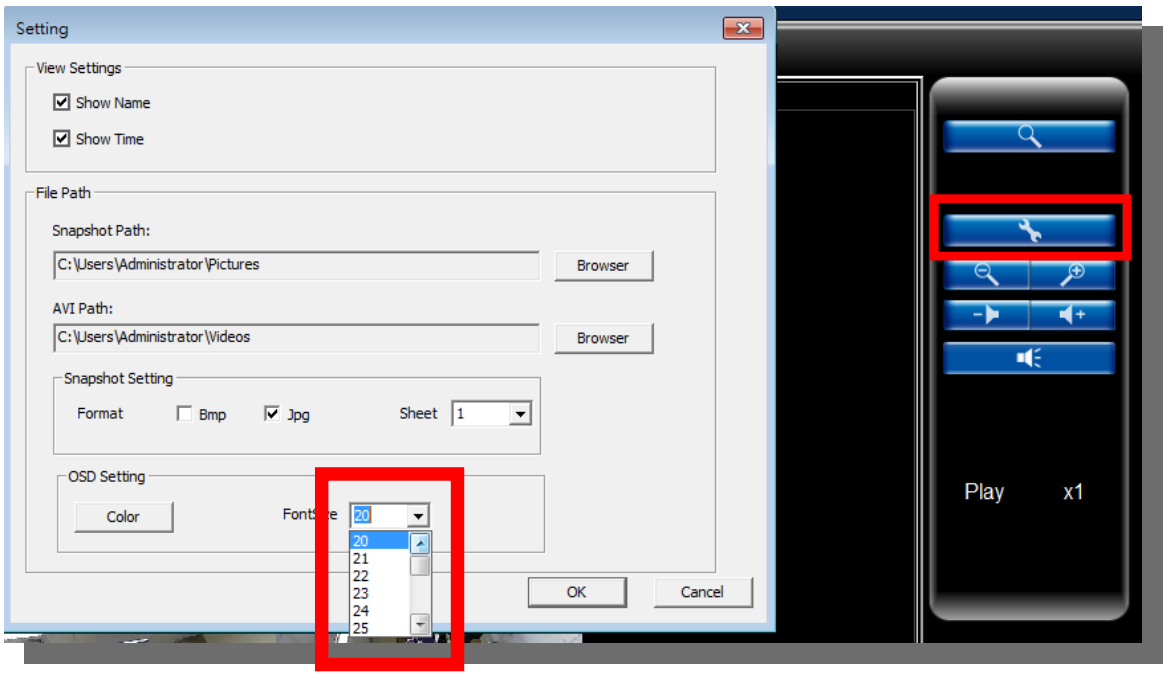


3. Then all OSD color will shown as the selection



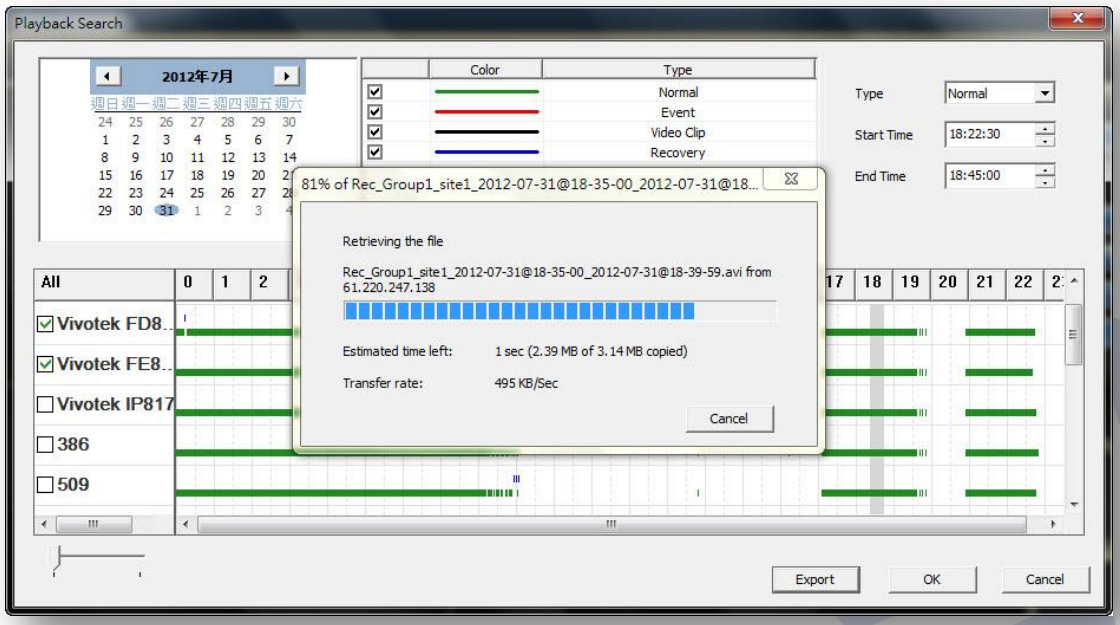
Change the OSD Font Size

The OSD font size can be setup by users.

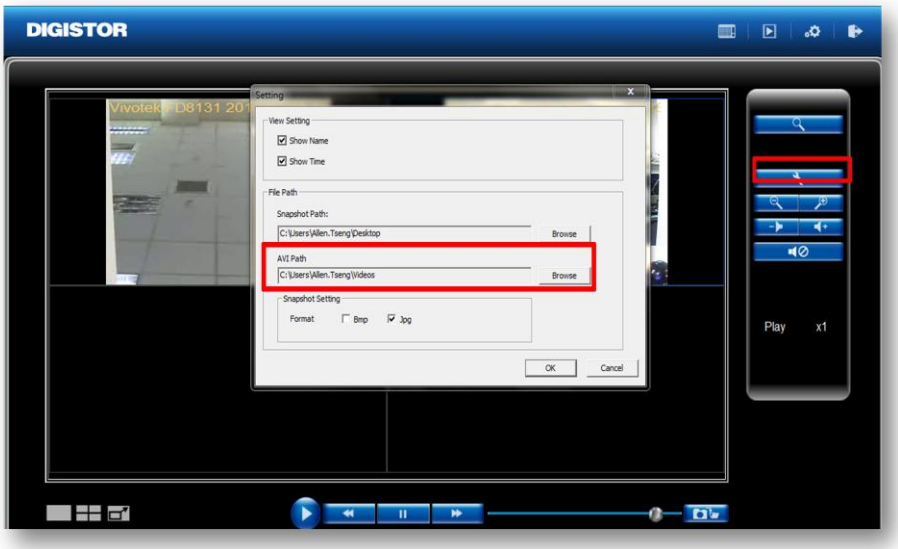


4.2.3 Export Files

Export function allows users to retrieve recorded files from the server



Select the Storage AVI Path



From playback setting page, users can indicate the path where exported **files**, **DIGIPlayer** and **DIGICheck** to be saved.

Select by cameras and the time arrange

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

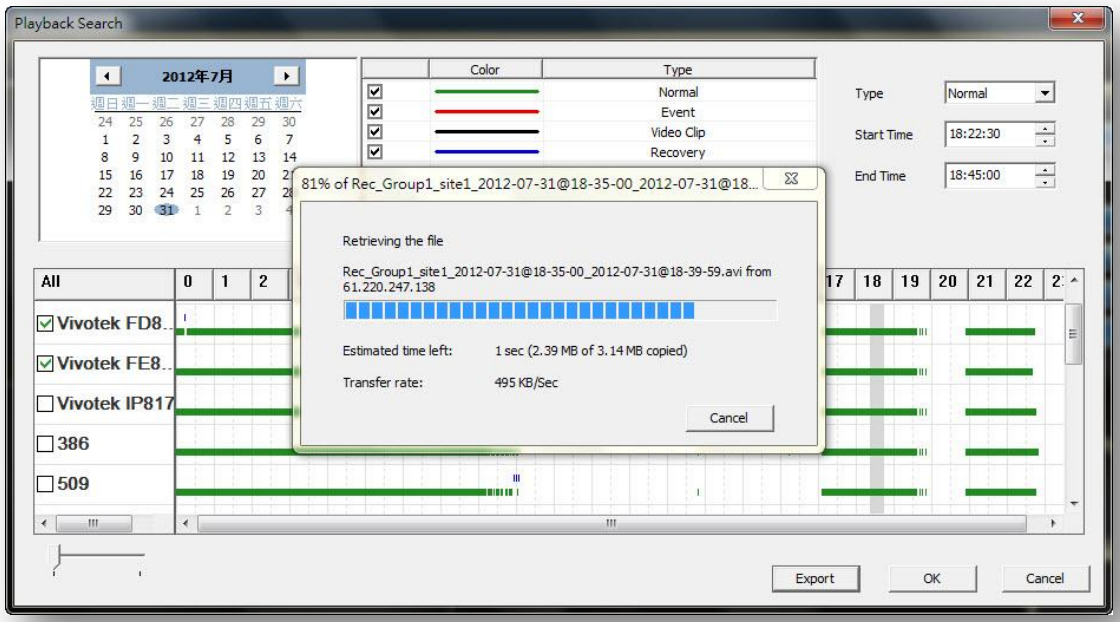
Start to export files from the NVR

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

DIGIPlayer and DIGICheck will also be downloaded with video files.

- ⚠ DIGIPlayer is the player of DIGISTOR NVR recording file.
- ⚠ DIGICheck is the verification tool to verify if the recorded files are originated from DIGISTOR NVR.

To cancel the transfer.



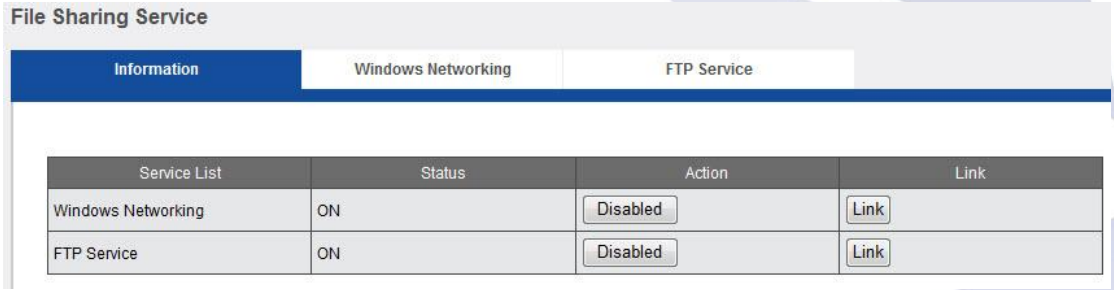
Users can cancel the files transferred while downloading files from the NVR

4.3 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.

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

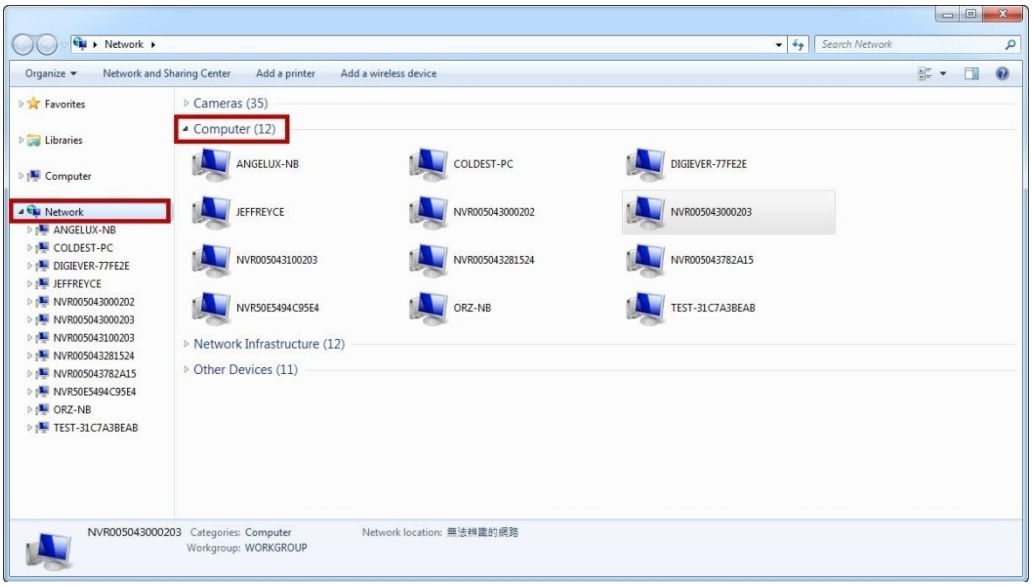


4.3.1 Windows Networking

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

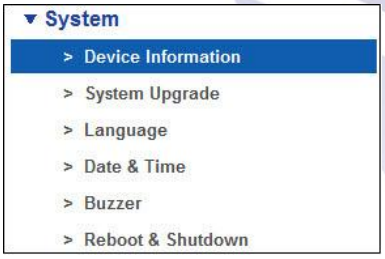
- **Choose a Computer of DIGISTOR**

Please go to "**Network**" folder and choose DIGISTOR. If more than one server exists in the network, "**Network**" folder will display all servers.



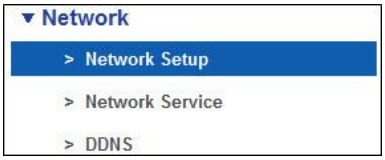
Note: The name of each connected DIGISTOR derives are from "**Mac Address**" of each DIGISTOR in system information and follows the "**Computer Name**" in network information.

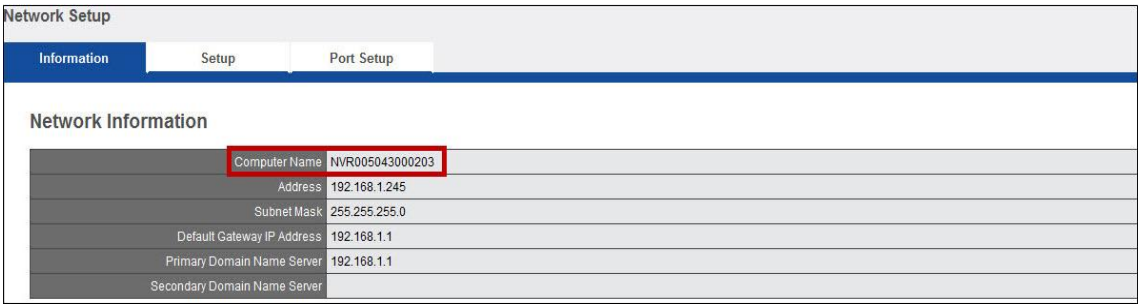
Users can refer to "**System**" > "**Device Information**" > "**System Information**" in configuration page to acquire Mac address.



Product Model	DS-4225 Pro Series
Firmware Version	2.0.0.42
MAC Address	20:10:7a:8f:b5:de, 20:10:7a:8f:b5:df
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	Locate

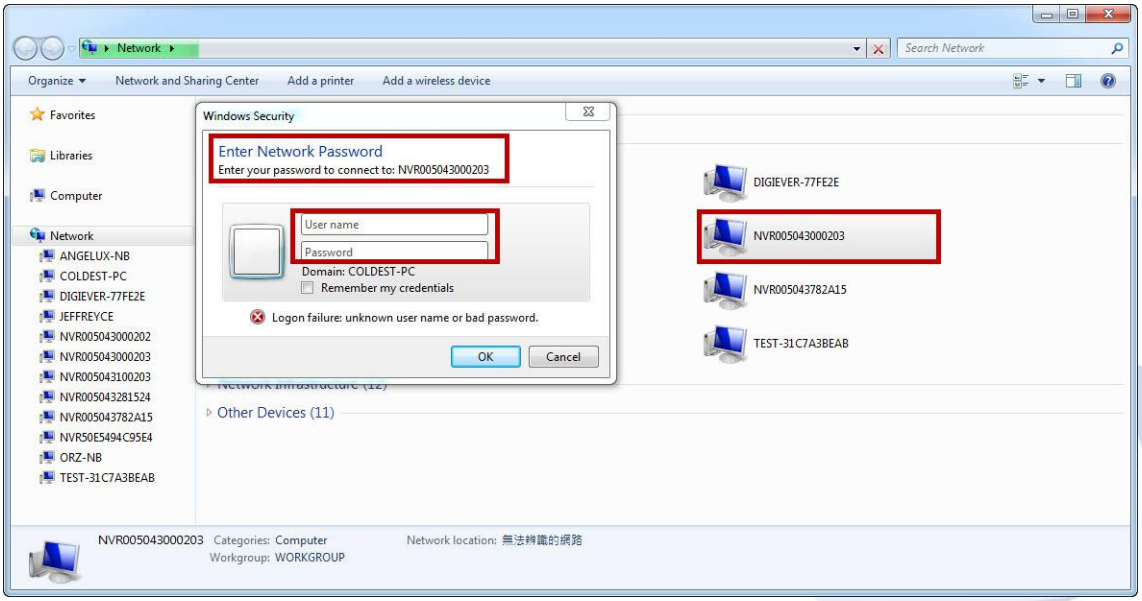
"**Computer Name**" is shown in "**Network**" > "**Network Setup**" > "**Information**" in configuration page.





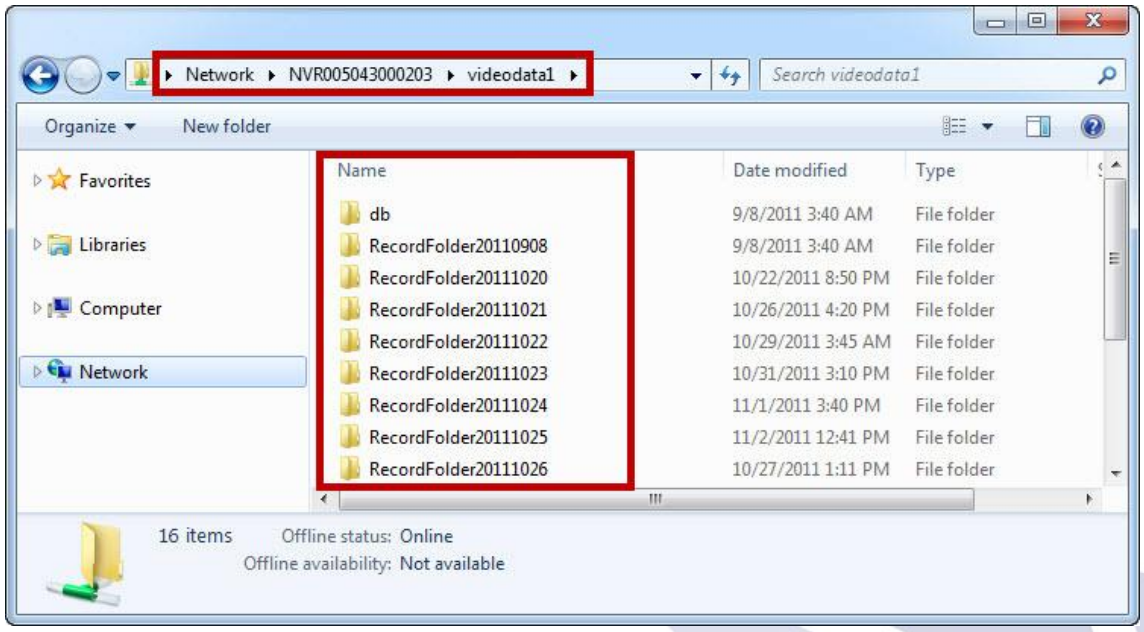
For example, the computer name is **NVR005043000203**.
Thus, users can select a DIGISTOR in Network folder by this computer name.

As you select a DIGISTOR, 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 DIGISTOR will display the folder "**Public**" and "**videodata1**." Please select "**videodata1**" to check video files.



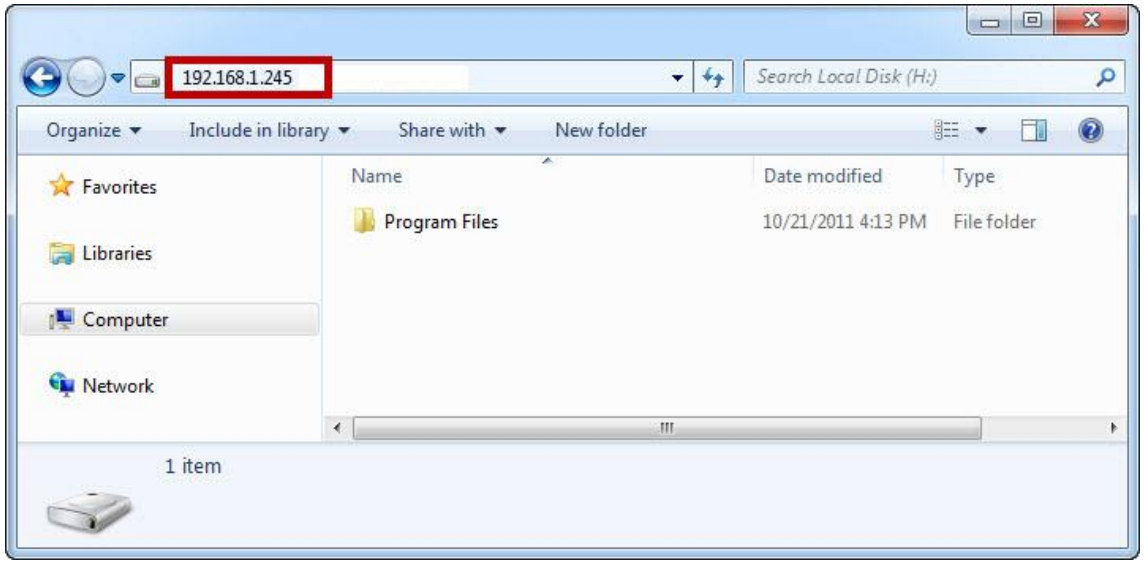
After entering "**videodata1**," the folder displays RecordFolder chronologically by recording dates. Please select a folder to enter.

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

Select a video file to play.

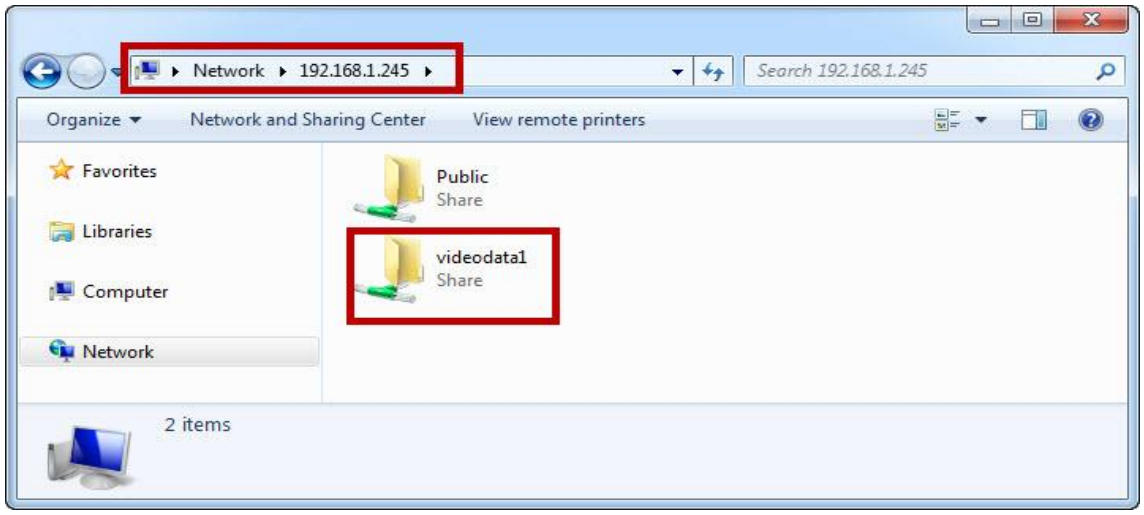
- **Enter IP Address to Search**

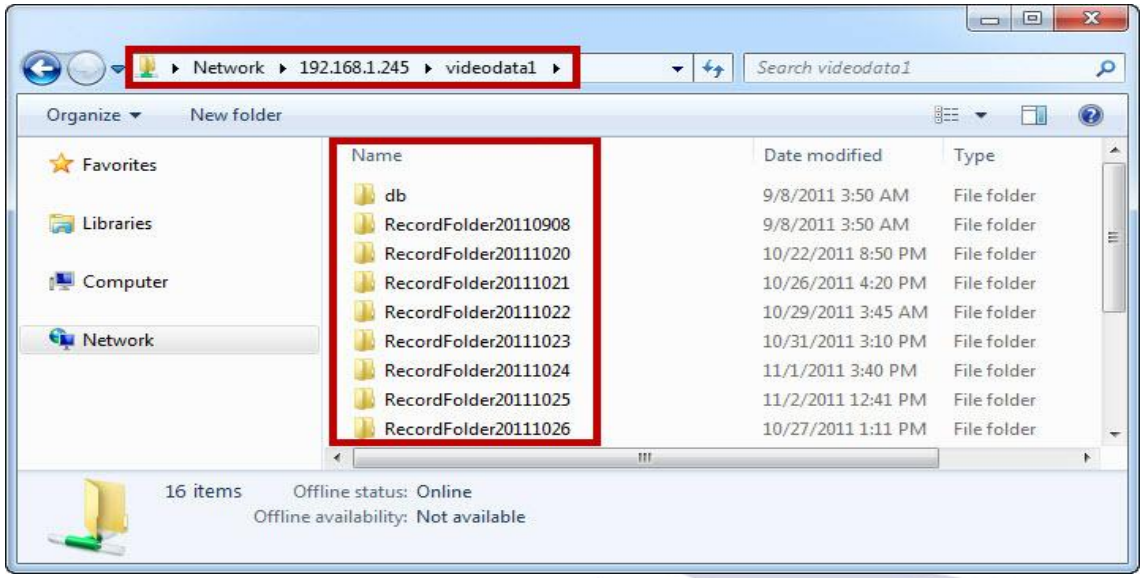
Please enter NVR IP address from the Windows Start menu.



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**."

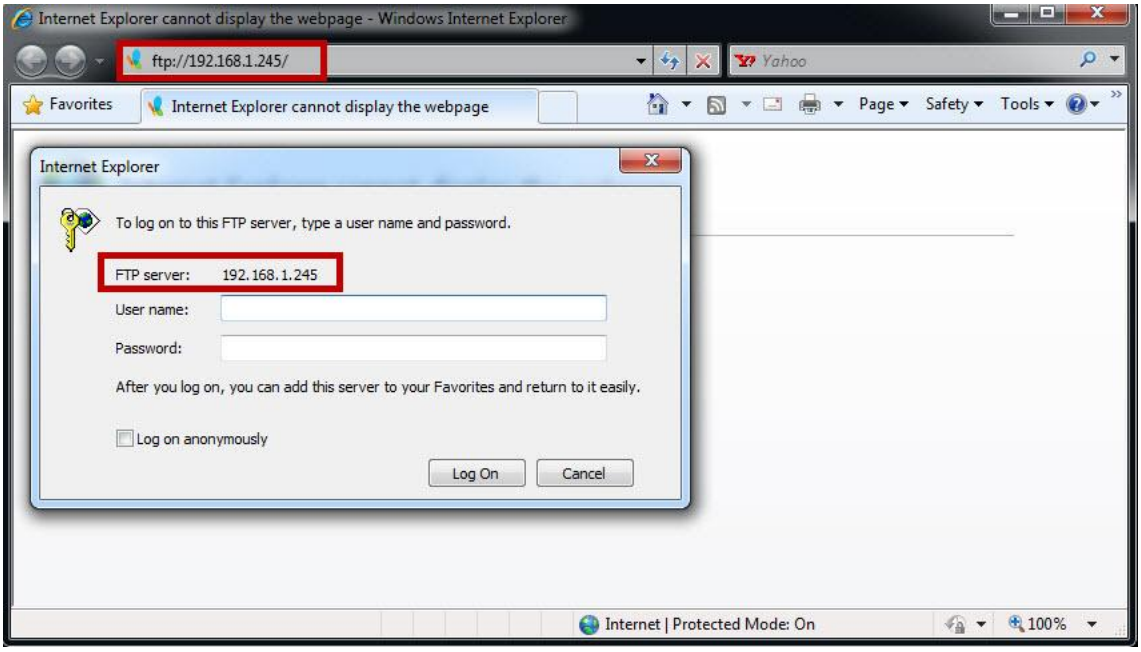
After users enter accurate user name and password, the folder of NVR displays the folder "**videodata1**." Continuously, select a Record Folder and a video file to play.



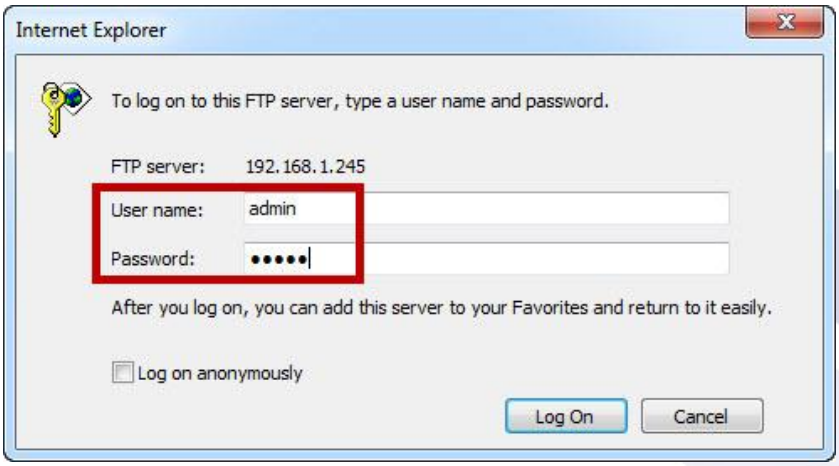


4.3.2 FTP Service

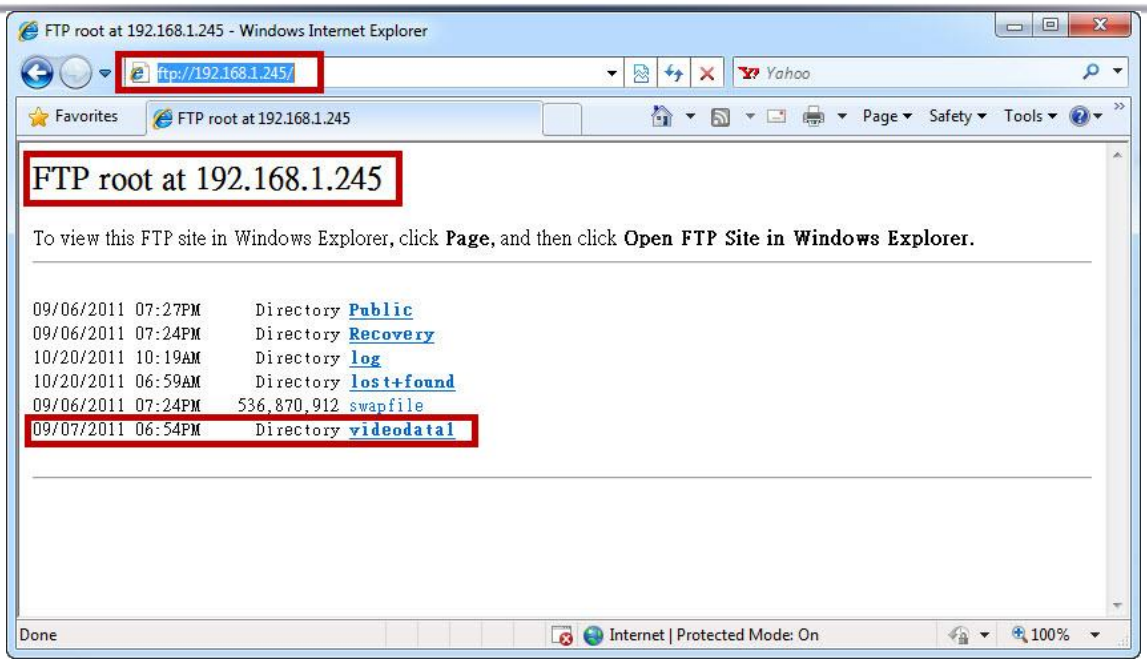
To access FTP service in a web-based interface, please open Windows Internet Explorer and enter NVR IP address which users configure.



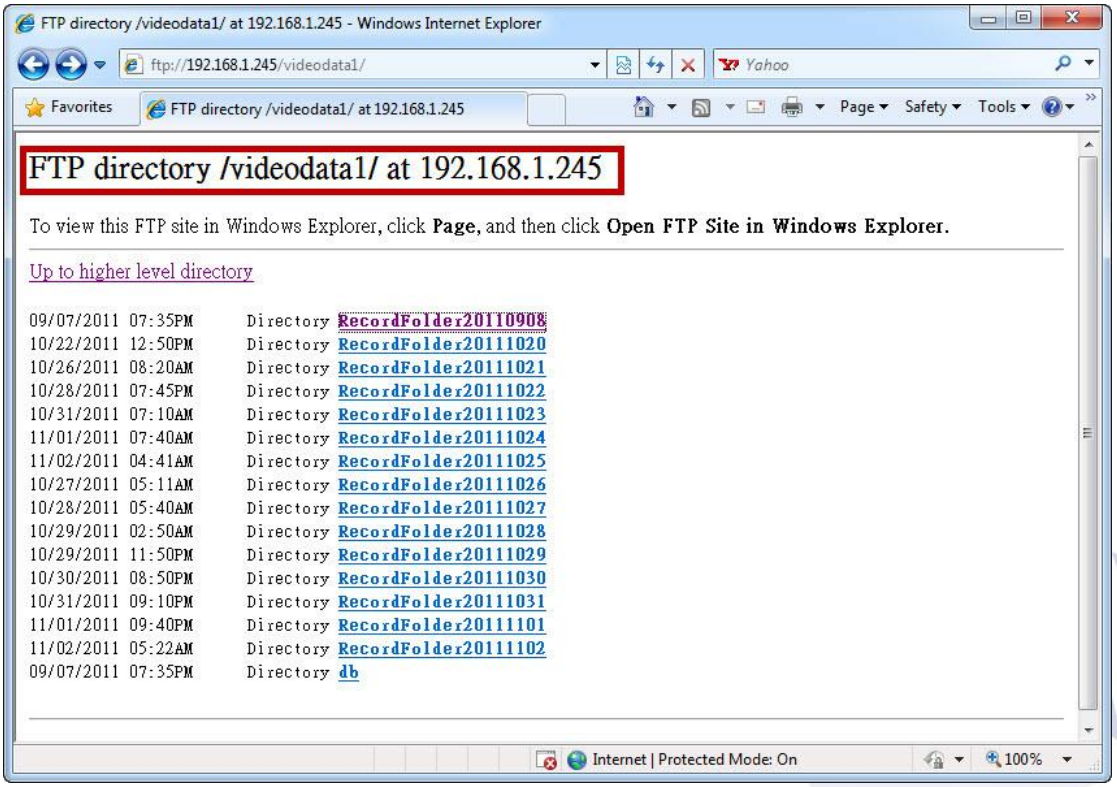
As you enter the IP address, a window will pop up and ask to type a user name and password to log in FTP server. If users don't amend the user name and password, please enter the default ones: "**admin/admin**."



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.

Chapter 5. Configuration

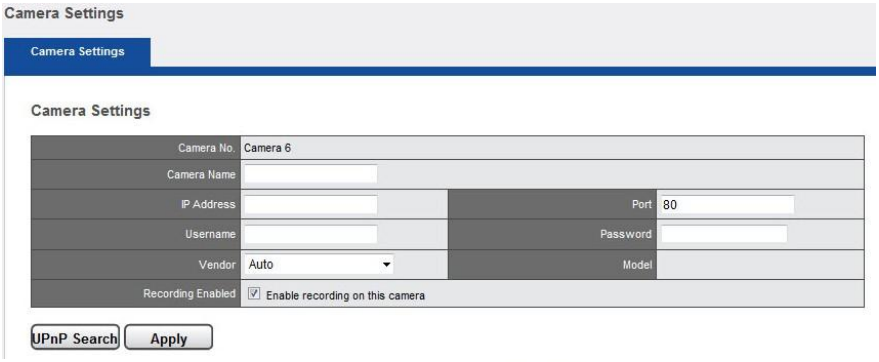
In configuration page, users can configure **Quick Configuration**, **IP Camera**, **Recording & Event**, **Disk Management**, **Network Management** and **System** from each drop-down menu.

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

5.1 IP Camera

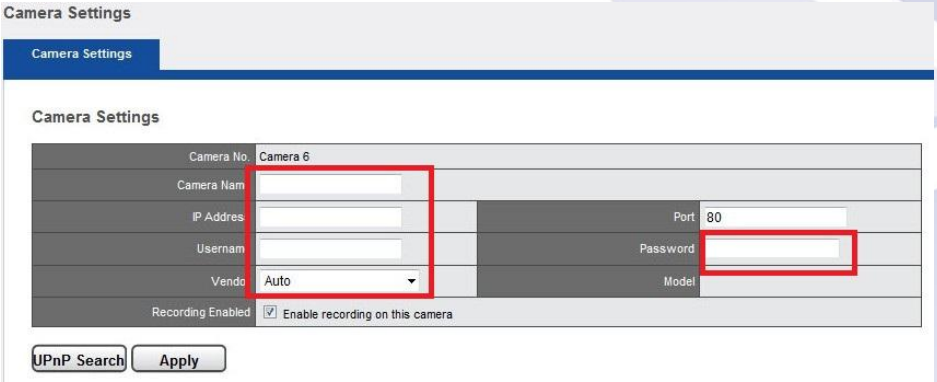
5.1.1 Camera Settings

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

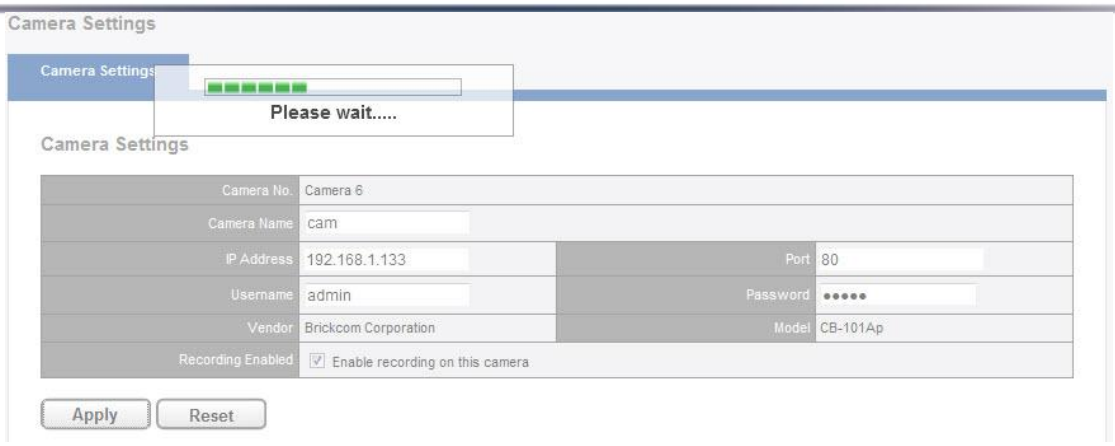


1. **Detect**:

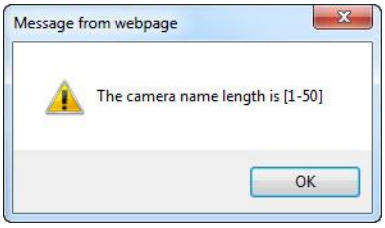
In this option, users should enter **Camera Name, IP Address, User Name, Password and select vendor** or **Auto.**



Then click "**Apply**."

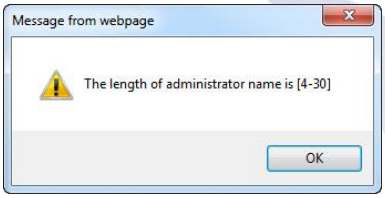


If there is any error occurred in entering the following information, the notification window will pop up accordingly.



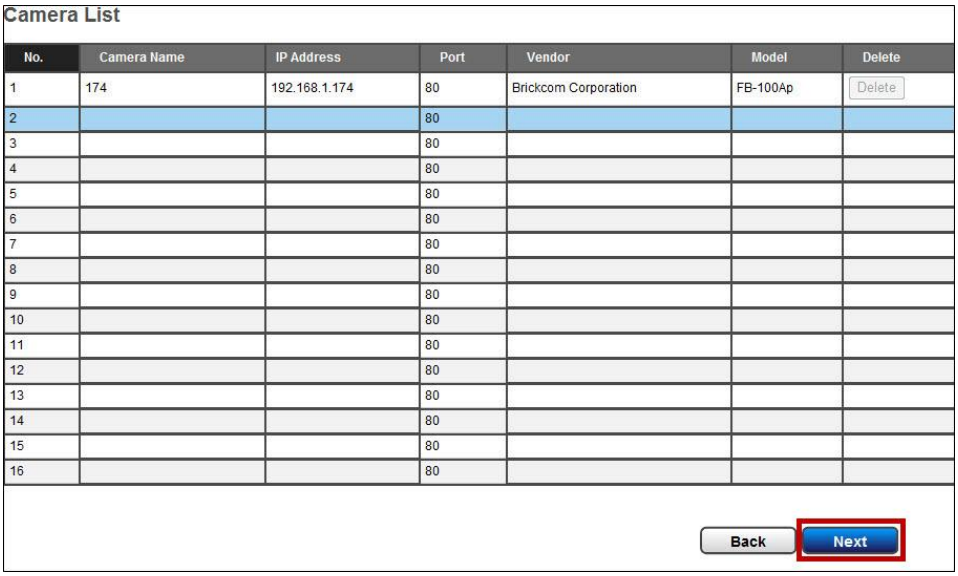
When an inappropriate address is entered, a window will pop up as below.

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.

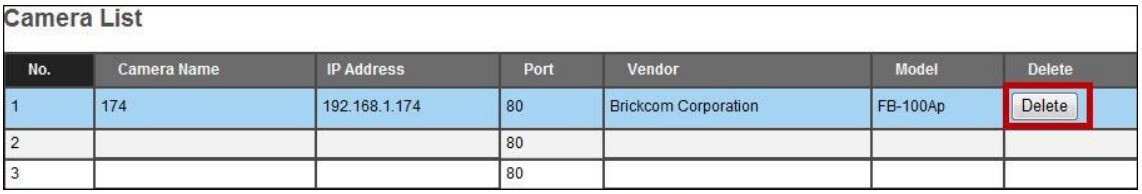
After the detection is complete, the camera list shows connected camera with **Camera Name**, **IP Address**, **Port**, **Vendor** and **Mode**.



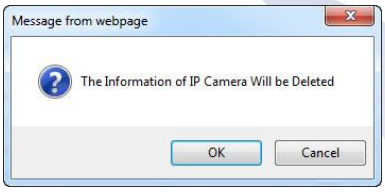
All applied cameras will be shown in Camera List and if no more camera needs to be connected, please click "**Next**" to continue configuration.

- **Delete**

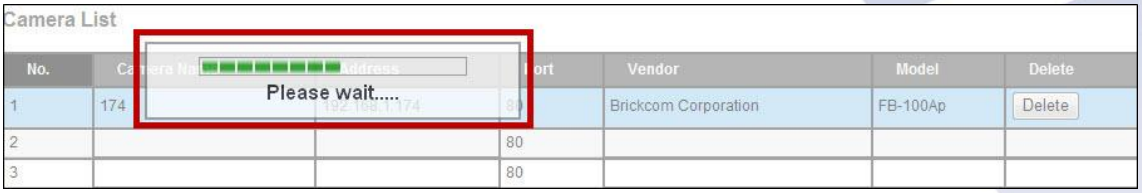
If any camera should be deleted from camera list, please click the column turning into blue and click "**Delete**."



A window will pop up to ensure the action.



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



Please wait. The deletion is in a process.

Camera List

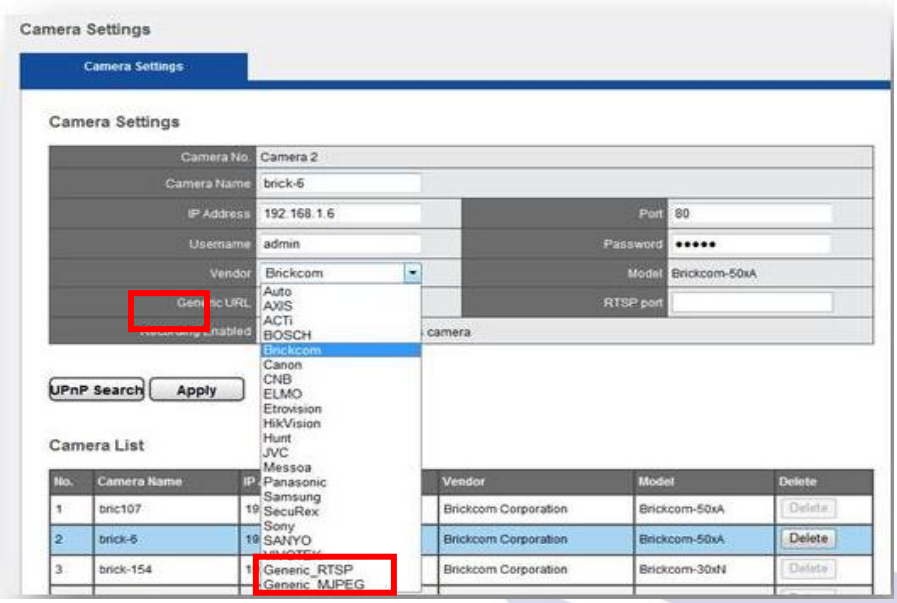
No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1			80			
2			80			
3			80			

The camera has been deleted from camera list.

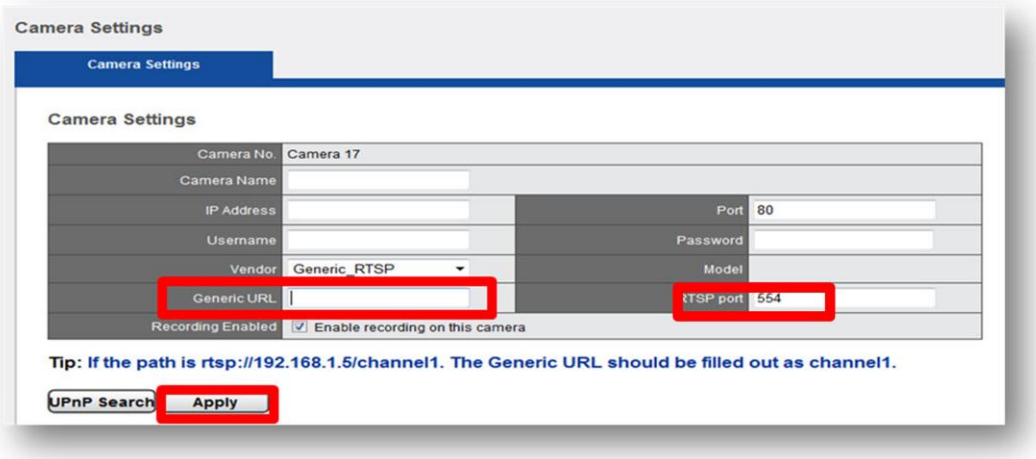
- **Generic RTSP/ Generic MJPEG**

DIGISTOR 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.



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



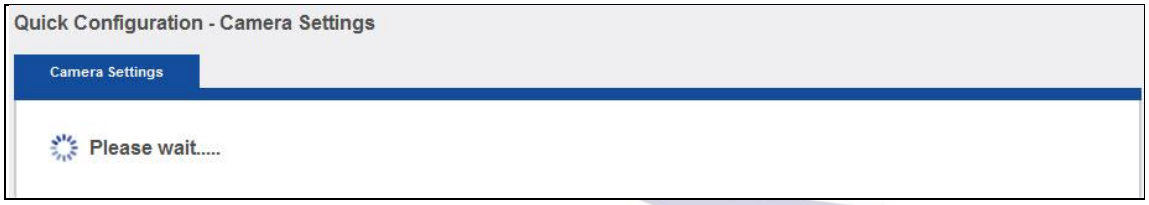
⚠The most correct URLs should be provided from each camera vendors.

⚠Users may also refer to websites

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

2. UPnP Search:

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



Please wait. The UPnP search is in a process.

Camera Settings

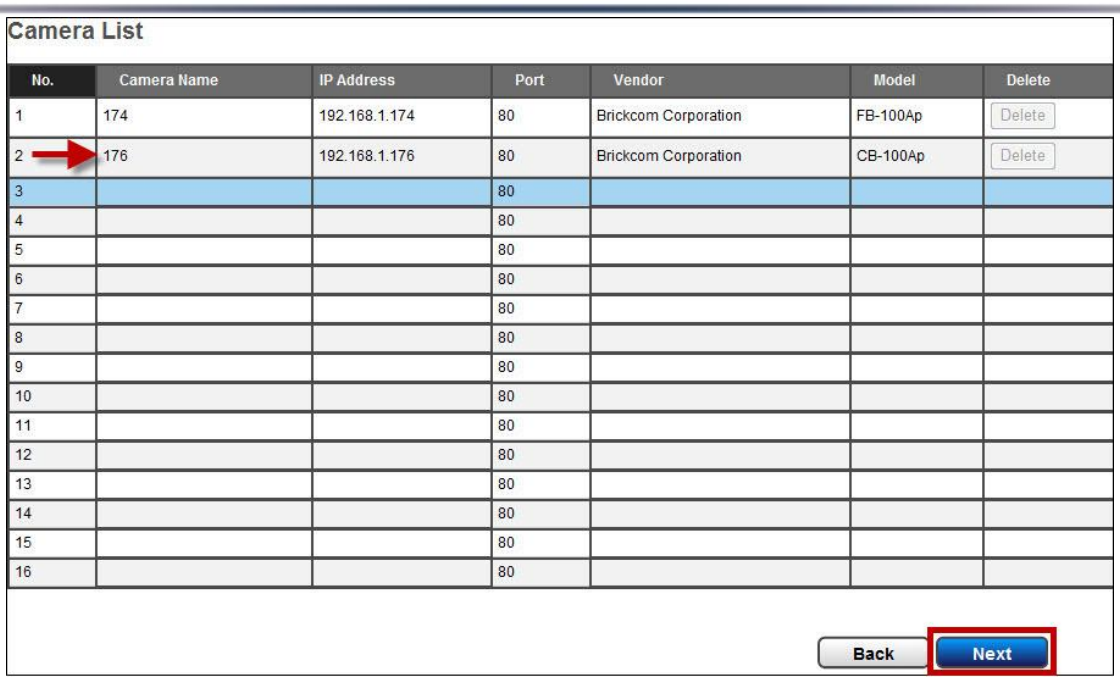
No.	IP Address	Port	Vendor	Model	MAC	
1	192.168.1.41	80	ACTi Corporation	TCM4301-09C-X-00455	00-45-05-00-00-00	Add
2	192.168.1.122	80	AXIS	211W	00-40-8C-82-E9-19	Add
3	192.168.1.123	80	AXIS	M1011-W	00-40-8C-A0-9F-23	Add
4	192.168.1.124	80	AXIS	M1031-W	00-40-8C-99-84-7D	Add
5	192.168.1.126	80	AXIS	209FD	00-40-8C-A0-8A-B4	Add
6	192.168.1.151	80	Brickcom Corporation	FD-100Ap	00-26-82-1A-00-0B	Add
7	192.168.1.152	80	Brickcom Corporation	FD-100Ap	00-26-82-1A-00-14	Add
8	192.168.1.153	80	Brickcom Corporation	FD-100Ap	00-26-82-19-FF-FD	Add
9	192.168.1.154	80	Brickcom Corporation	FD-100Ap	00-26-82-1A-00-1C	Add
10	192.168.1.155	80	Brickcom Corporation	FD-100Ap	00-26-82-1A-00-03	Add
11	192.168.1.156	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DB-6F	Add
12	192.168.1.157	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-6D	Add
13	192.168.1.158	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DB-55	Add
14	192.168.1.159	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-B1	Add
15	192.168.1.160	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-DB	Add
16	192.168.1.161	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-94	Add
17	192.168.1.162	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-9C	Add
18	192.168.1.163	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DB-2A	Add
19	192.168.1.164	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-B8	Add
20	192.168.1.165	80	Brickcom Corporation	FB-100Ap	00-26-82-1B-DA-79	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 **IP Address, Port**, **Vendor** and **Model**. However, users should manually enter **Camera Name**, **User Name**, and **Password** to apply the setting.

Please click “**Apply**” to start connecting to the IP camera.

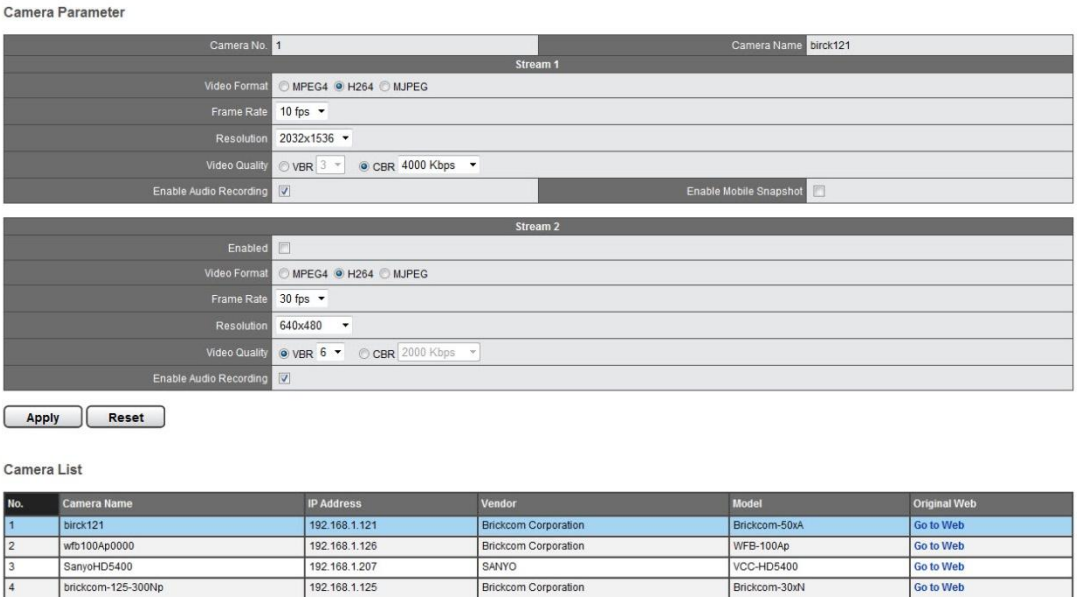


All applied cameras will be shown in Camera List and If no more camera needs to be connected, please click "**Next**" to continue.

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

5.1.2 Camera Parameter

Please select "**Camera Parameter**" from the drop-down menu of **IP Camera** to begin.



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.

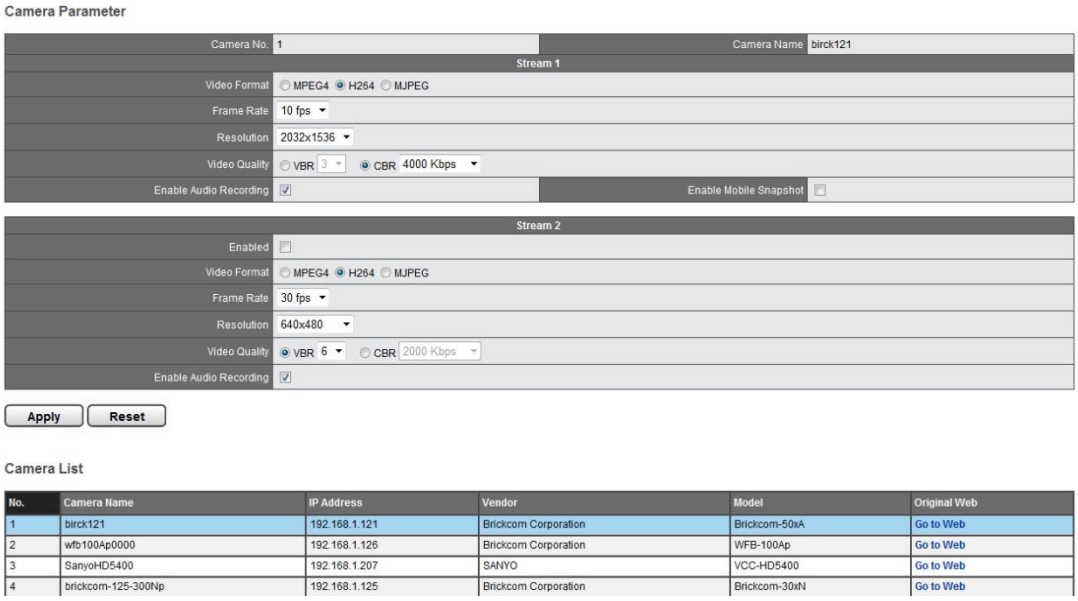
There are two parts in this section: **Parameter** and **Camera List**.

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

Camera List

No.	Camera Name	Address	Vendor	Model	Original Web
1	174	192.168.1.174	Brickcom Corporation	FB-100Ap	Go To Web
2	176	192.168.1.176	Brickcom Corporation	CB-100Ap	Go To Web
3					Go To Web
4					Go To Web
5					Go To Web
6					Go To Web
7					Go To Web
8					Go To Web
9					Go To Web
10					Go To Web
11					Go To Web
12					Go To Web
13					Go To Web
14					Go To Web
15					Go To Web
16					Go To Web

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



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 bit rate) to set the video quality.

- **Audio Enable**

  To make audio recording function enable or disable.

- **Stream Target**

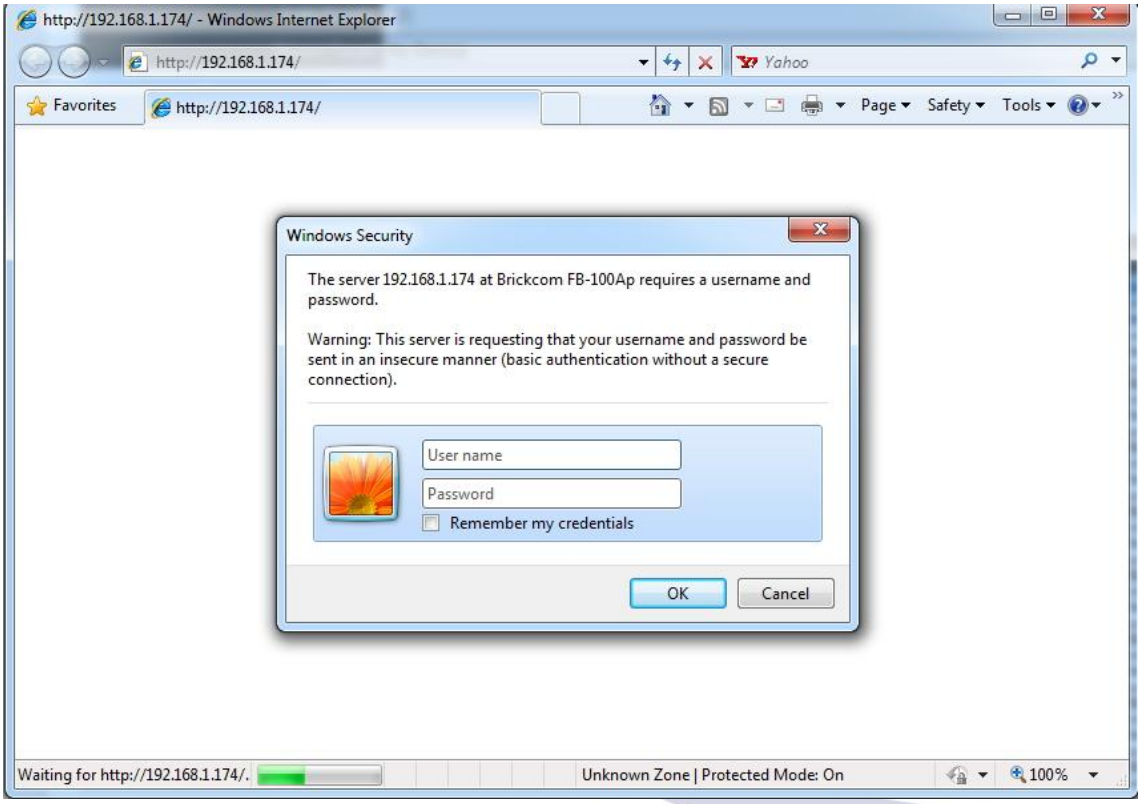
  Apply stream settings to different target including **live view**, **record**, and **live view & Record**.

Furthermore, click "**Go to Web**" for advanced camera configuration in camera's user interface.

Camera List

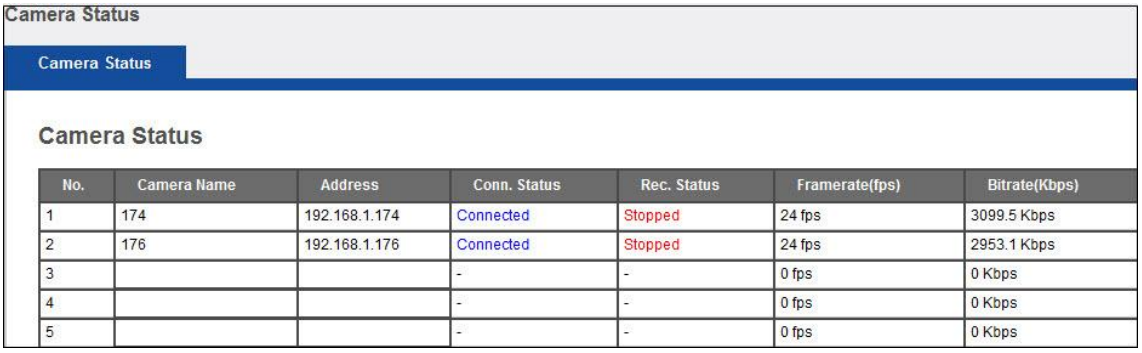
No.	Camera Name	Address	Vendor	Model	Original Web
1	174	192.168.1.174	Brickcom Corporation	FB-100Ap	Go To Web
2	176	192.168.1.176	Brickcom Corporation	CB-100Ap	Go To Web
3					Go To Web

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



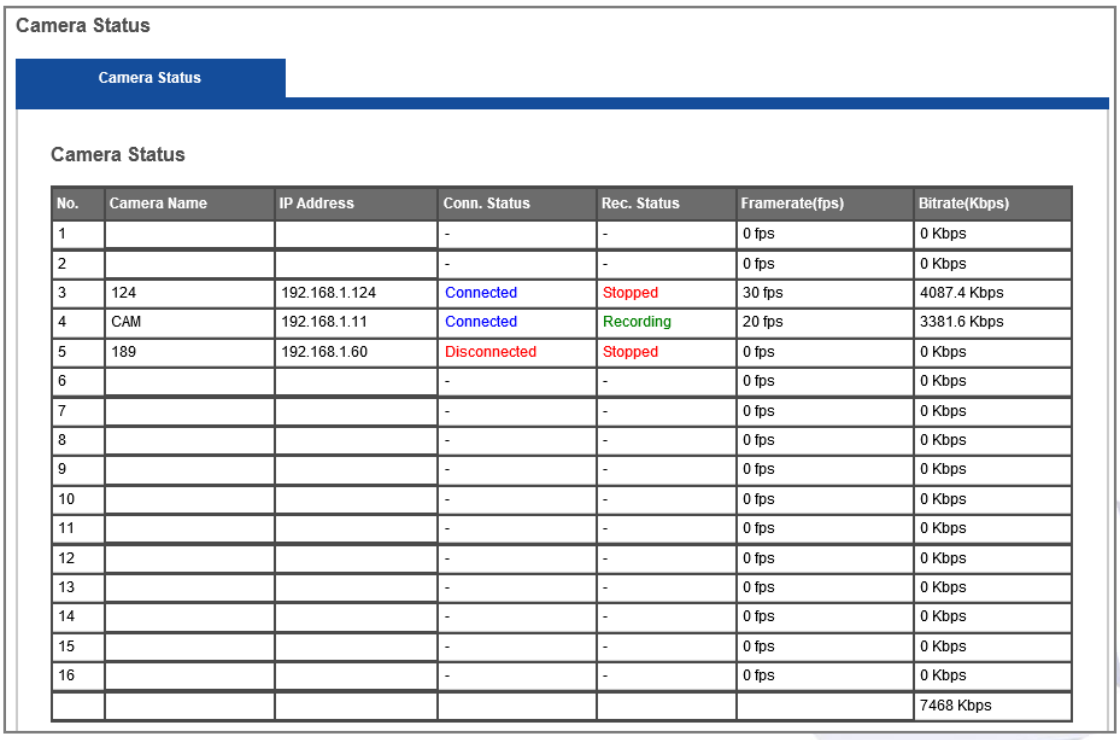
5.1.3 Camera Status

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



No.	Camera Name	Address	Conn. Status	Rec. Status	Framerate(fps)	Bitrate(Kbps)
1	174	192.168.1.174	Connected	Stopped	24 fps	3099.5 Kbps
2	176	192.168.1.176	Connected	Stopped	24 fps	2953.1 Kbps
3			-	-	0 fps	0 Kbps
4			-	-	0 fps	0 Kbps
5			-	-	0 fps	0 Kbps

Camera List shows connection status of recording.

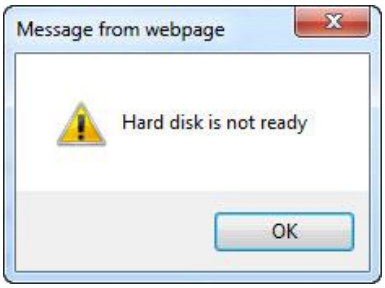


No.	Camera Name	IP Address	Conn. Status	Rec. Status	Framerate(fps)	Bitrate(Kbps)
1			-	-	0 fps	0 Kbps
2			-	-	0 fps	0 Kbps
3	124	192.168.1.124	Connected	Stopped	30 fps	4087.4 Kbps
4	CAM	192.168.1.11	Connected	Recording	20 fps	3381.6 Kbps
5	189	192.168.1.60	Disconnected	Stopped	0 fps	0 Kbps
6			-	-	0 fps	0 Kbps
7			-	-	0 fps	0 Kbps
8			-	-	0 fps	0 Kbps
9			-	-	0 fps	0 Kbps
10			-	-	0 fps	0 Kbps
11			-	-	0 fps	0 Kbps
12			-	-	0 fps	0 Kbps
13			-	-	0 fps	0 Kbps
14			-	-	0 fps	0 Kbps
15			-	-	0 fps	0 Kbps
16			-	-	0 fps	0 Kbps
						7468 Kbps

5.2 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**".



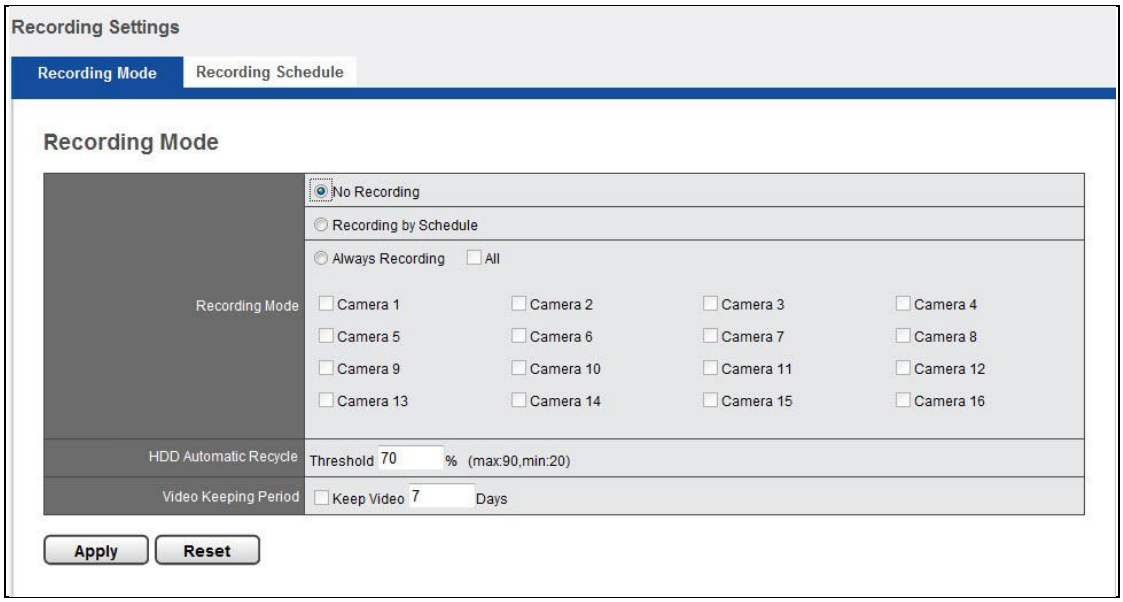
After the hard disk is ready, users can continue the following settings.

5.2.1 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**," "**Recording by Schedule**" and "**Always Recording**" for each connected cameras.



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

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

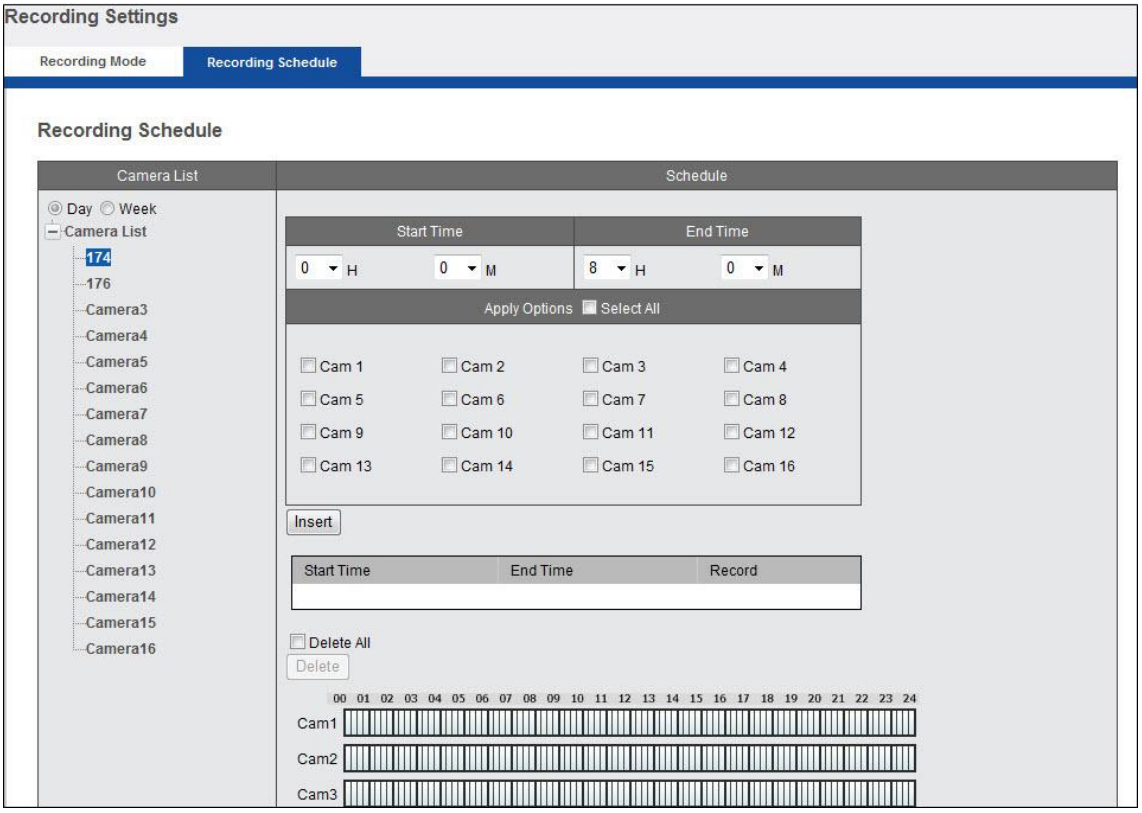
DIGISTOR provides two ways to delete the recorded videos.

- **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.

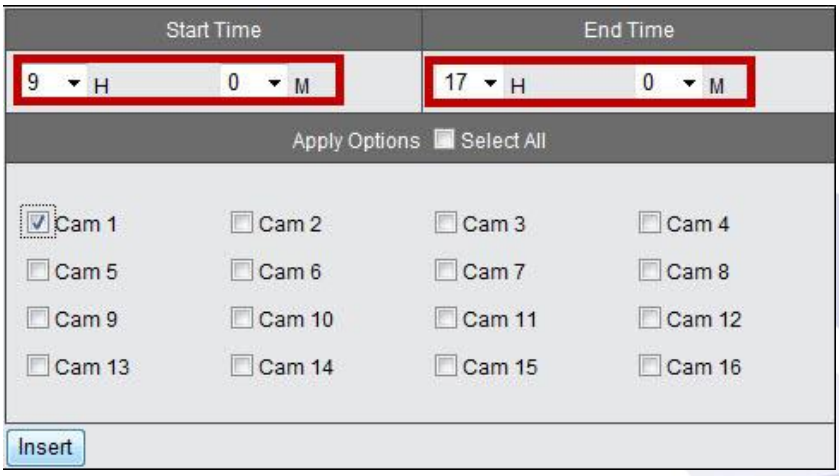
Click "**Apply**" to apply setting or click "**Reset**" to change the setting.

5.2.2 Recording Schedule

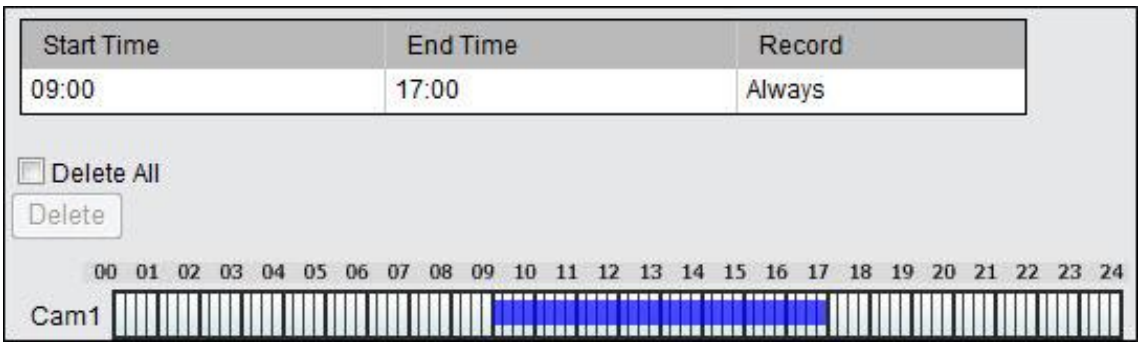
Users can configure Recording Schedule to define time range for all channels.

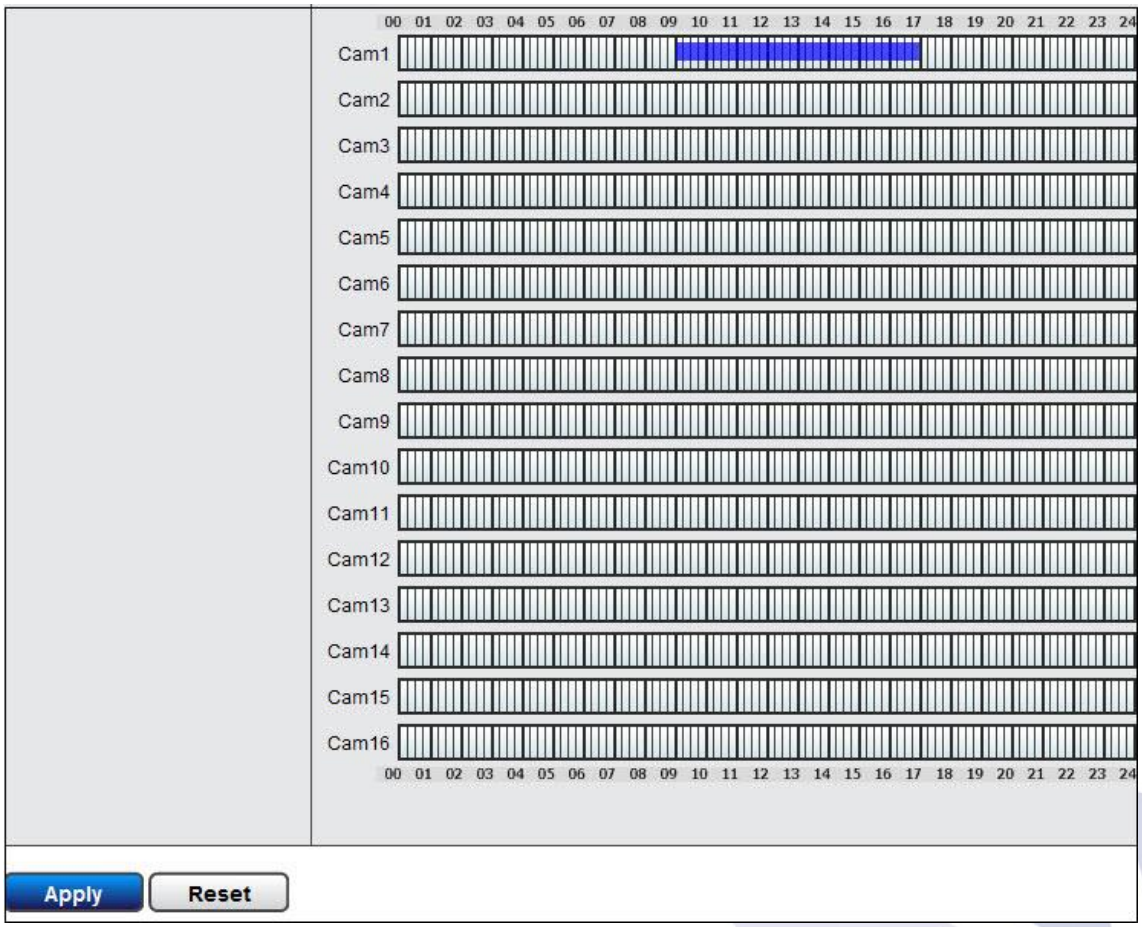


Select time range and channel for recording schedule and click "**Insert**."



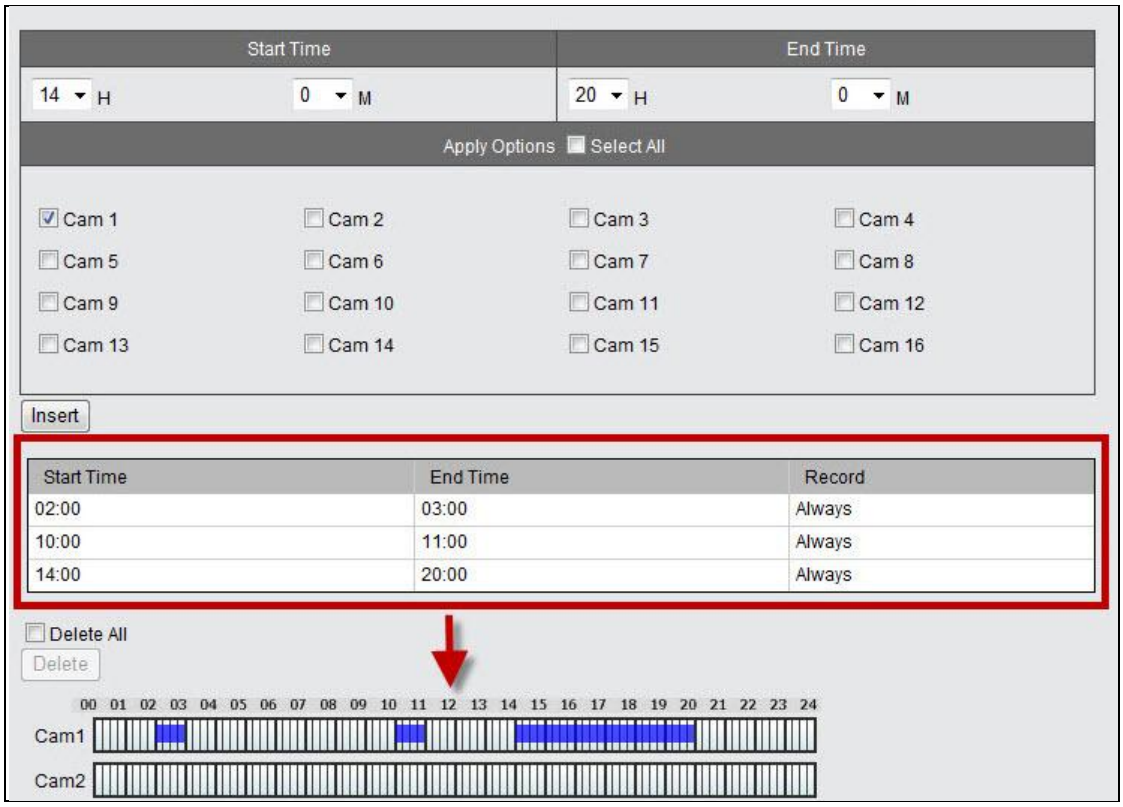
After inserting time range and channel, the time/camera bar displays the selected time.





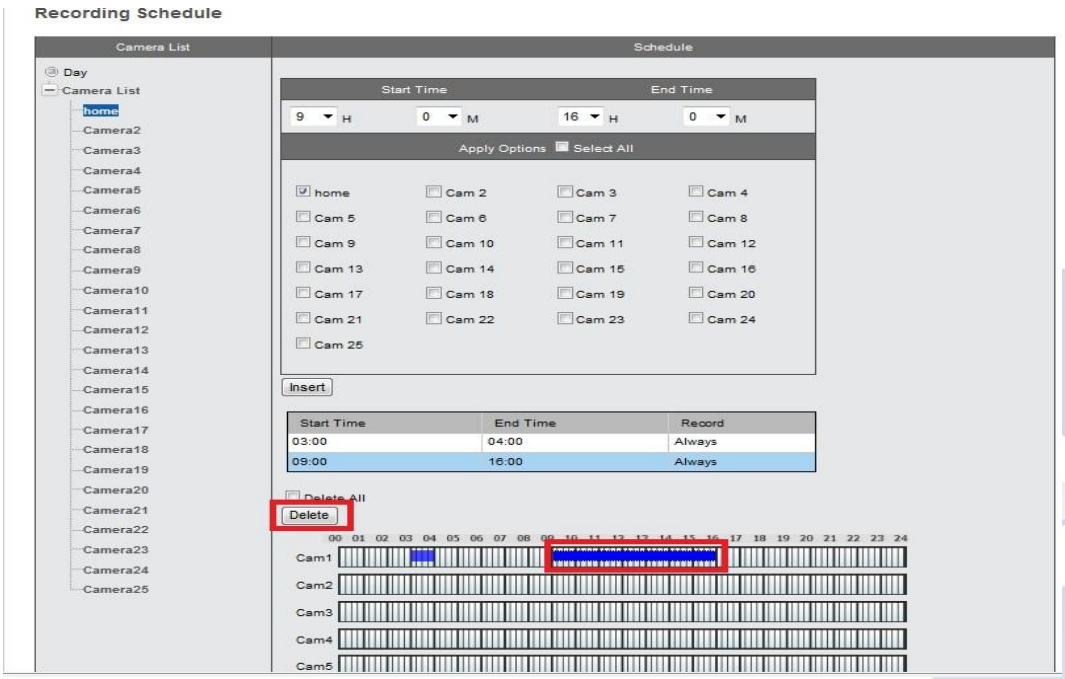
Click "**Apply**" to finish setting or "**Reset**" to rearrange time and camera channel.

Note: A camera can set multi-recording schedule at same time.



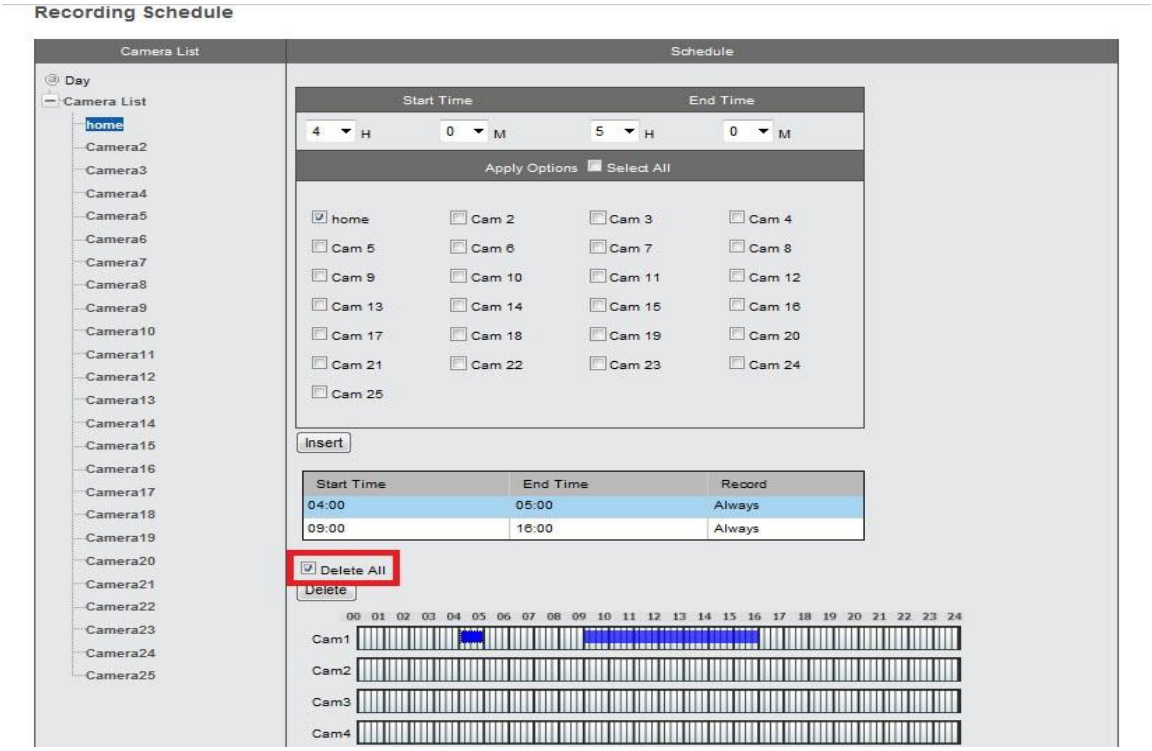
Delete

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**".

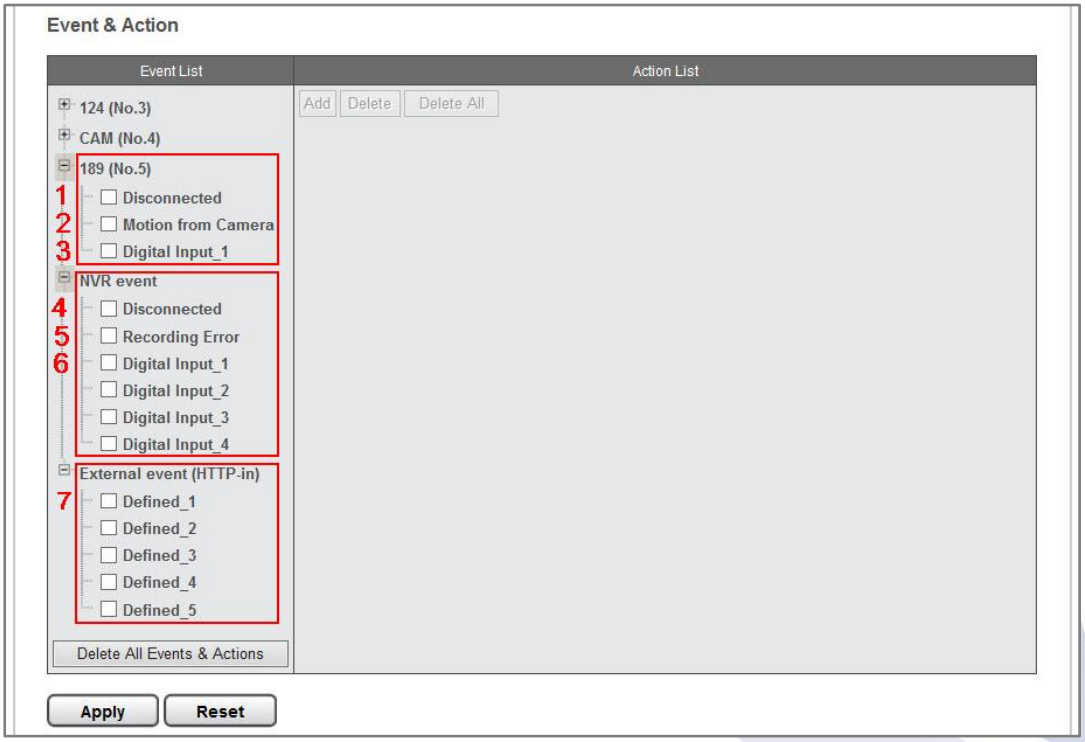


5.2.3 Event & Action Management

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 trigger 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

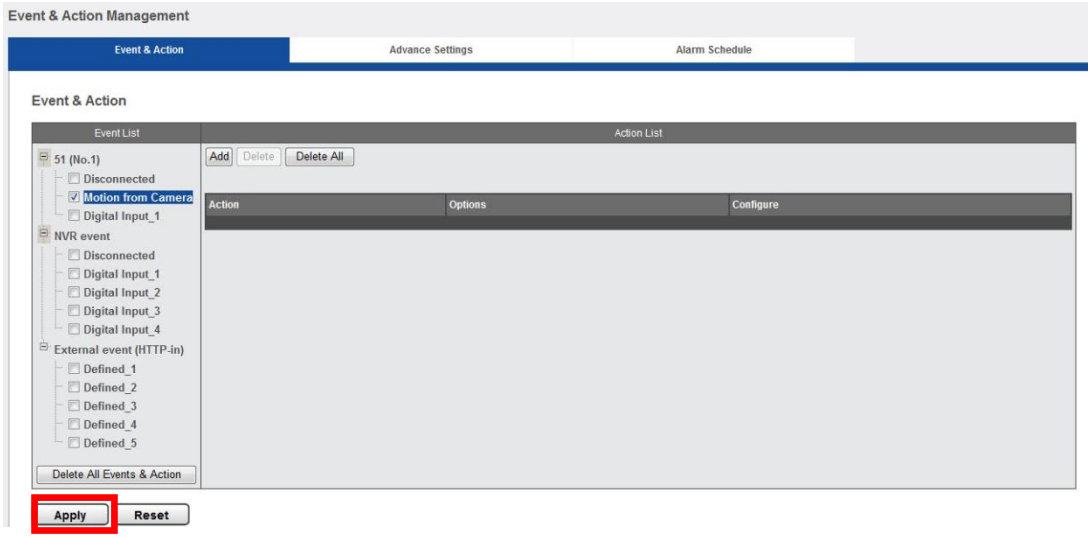


NVR supports different actions which can be activated when the selected events are triggered in IP cameras. Users can configure multiple types of event for camera, and NVR also provide various types of event for NVR system.

1. Disconnected
2. Motion from Camera
3. Digital Input
4. NVR event: Disconnected

5. NVR even: Recording Error
6. NVR event: Digital Input
7. 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.

1. **Disconnected**

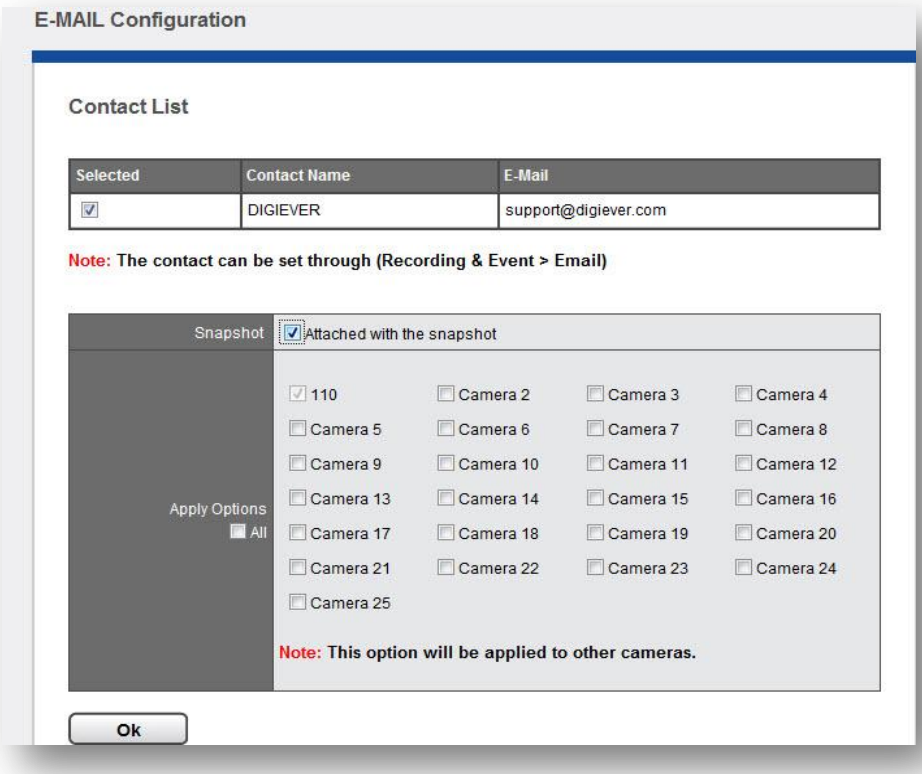
You can set action as "**Send E-Mail**", "**Digital Output**", "**User Defined Action**" and "**SMS**". Once there is a connection lost with the camera, defined actions can be triggered.

- **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.



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**

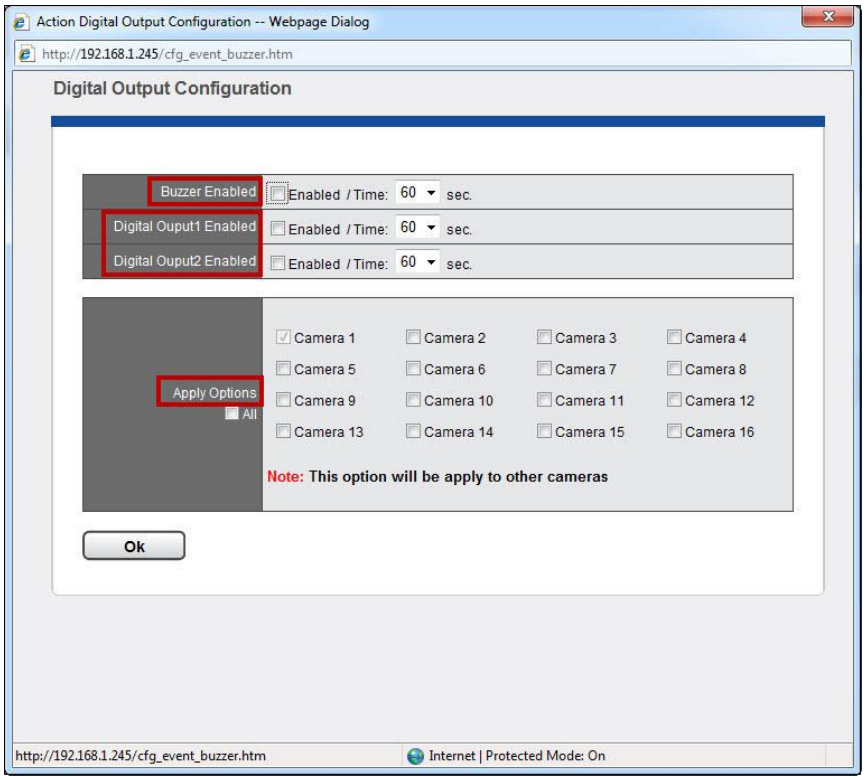
Digital Output Configuration window will pop up as you add “**Digital Output**” to action.

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 buzzer beeping.

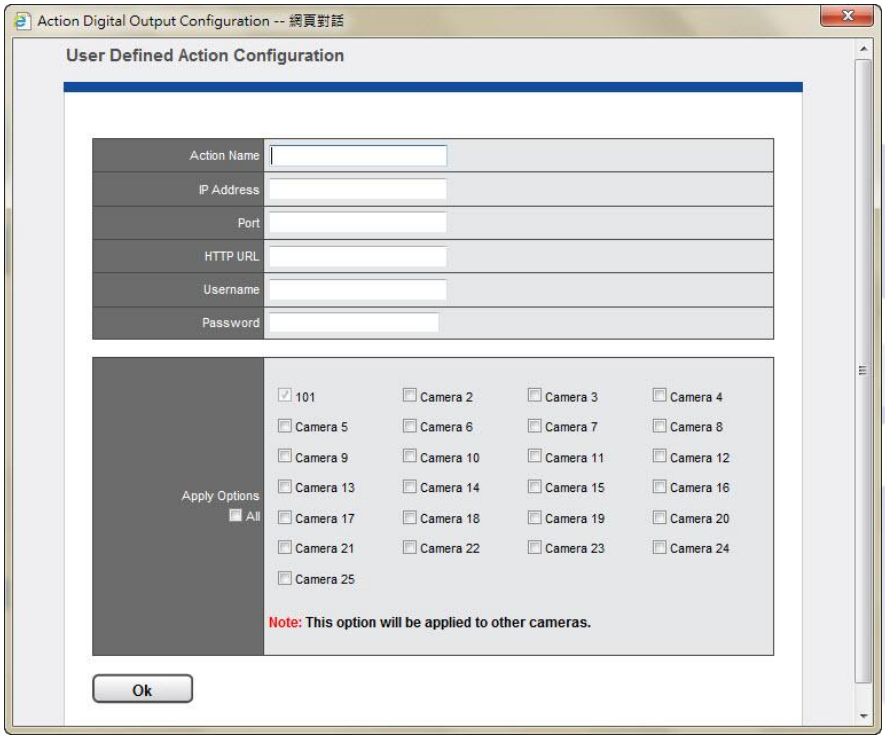
Digital Output1 and **Digital Output2** are supported by other digital outputs of server and can be enabled up to 60 seconds.

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.

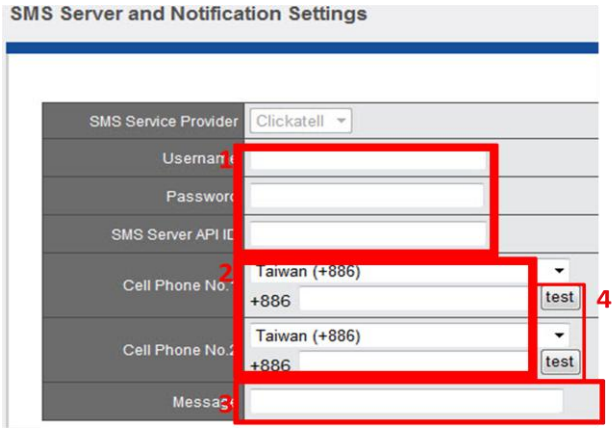


- **SMS**

  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.

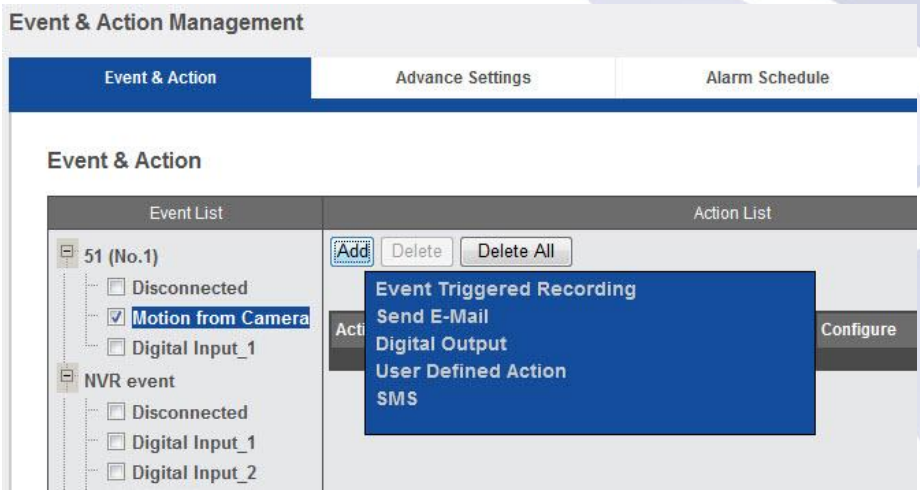
  Settings:

  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.



2. **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.



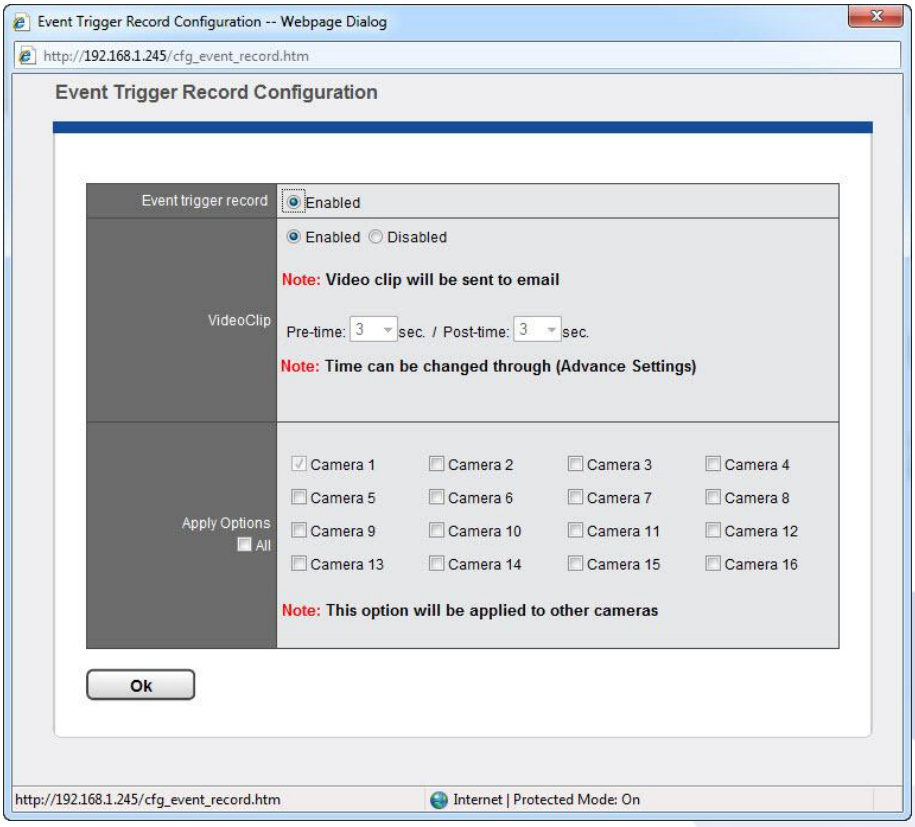
- **Event Triggered Record**

You can enable **Event trigger record** and **Video Clip**.

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

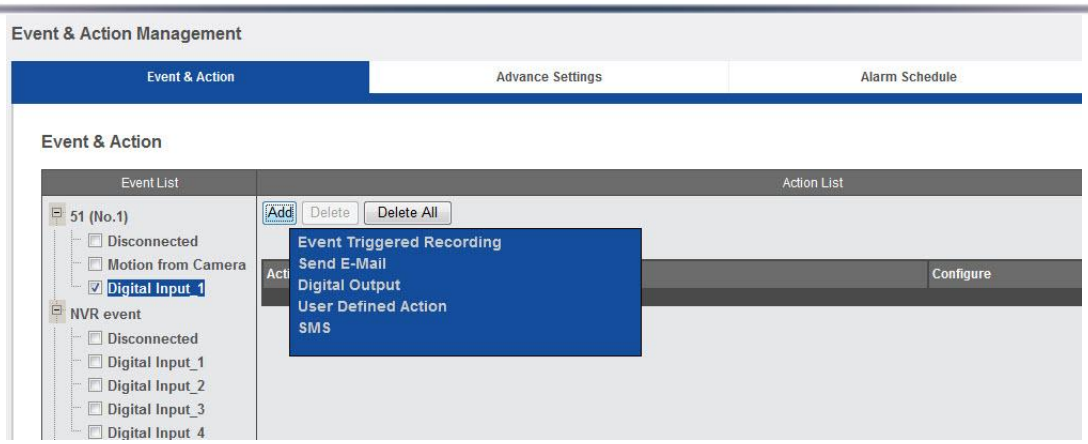
Video Clip: Video clip will be sent by E-mail and you can change the Pre-time and Post-time through "**Advanced Settings**."

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



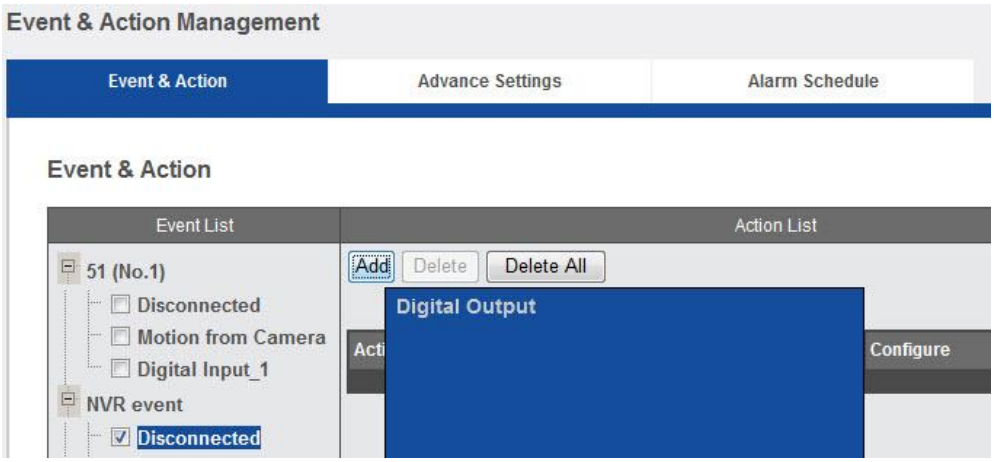
3. **Digital Input**

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.



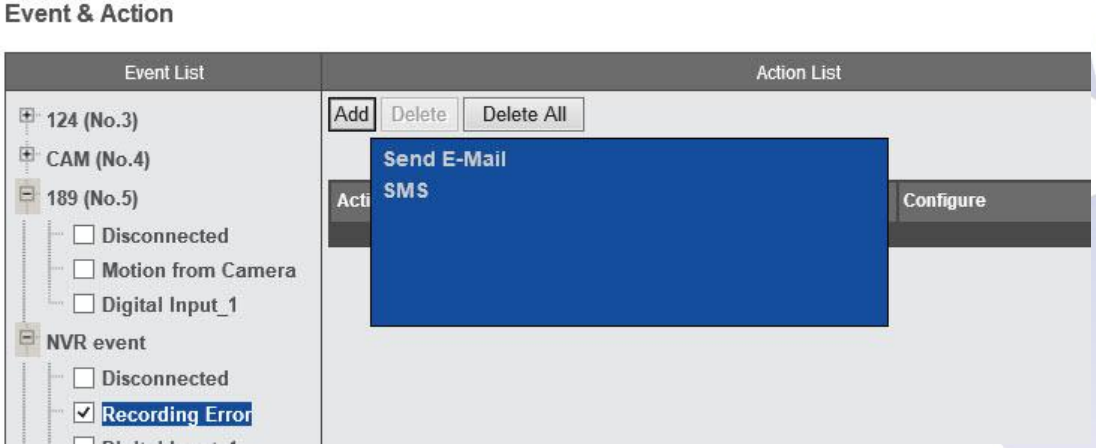
4. **NVR event : Disconnected**

You can set action as "**Digital Output.**" Once there is a connection lost to the system, the actions can be triggered.



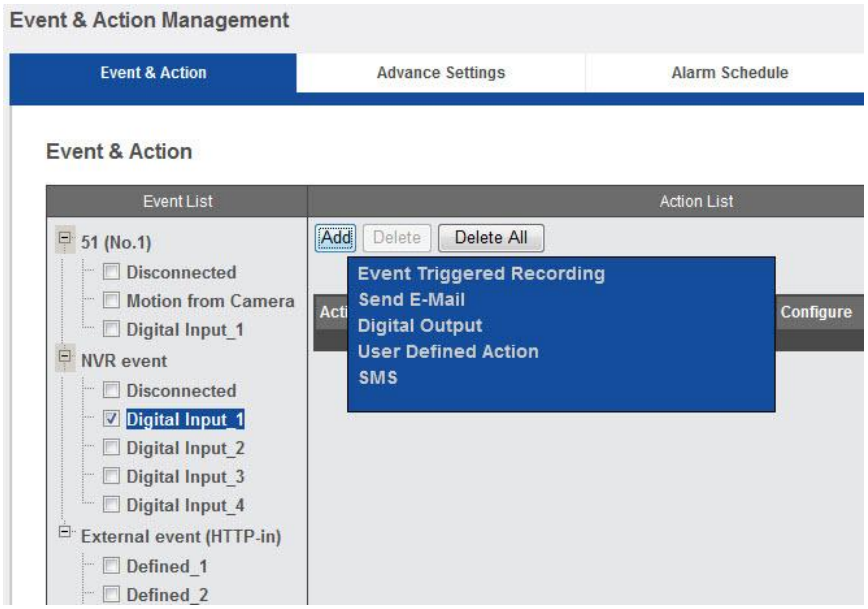
5. **NVR event : Recording Error**

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



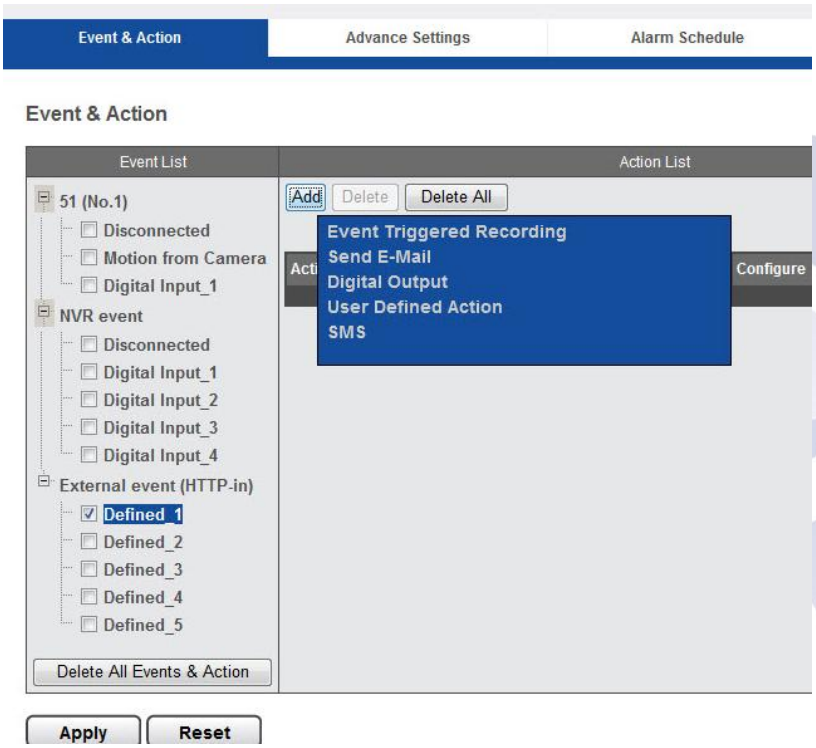
6. **NVR event: Digital Input**

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.



7. **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.

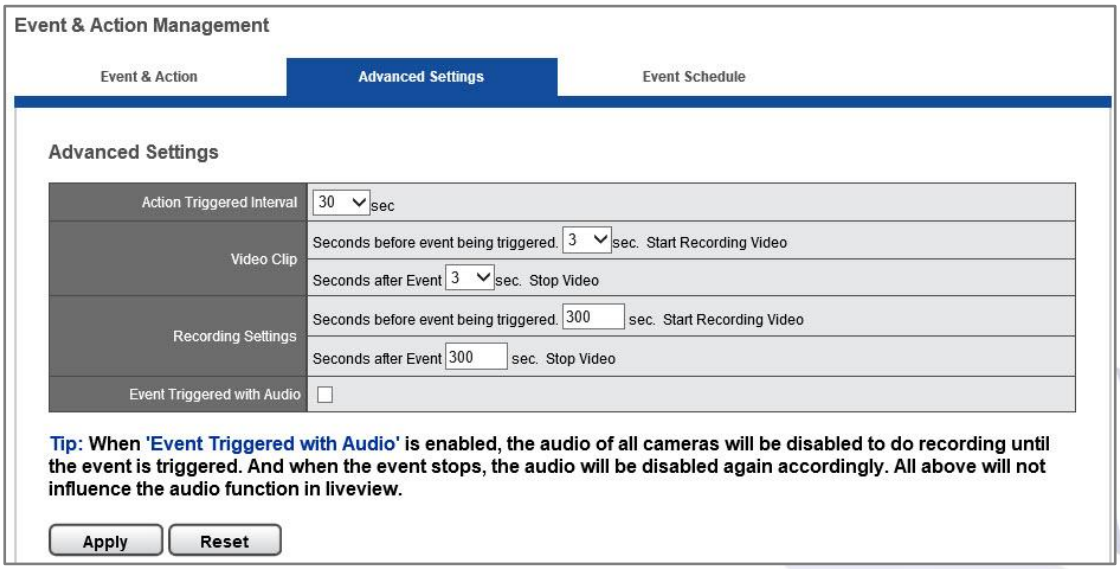


Event could be triggered by external HTTP-in CGI command. It allows users to define up to 5 different HTTP-in events. With the “External Event”, users can set its actions just like other events

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.

5.2.4 Advanced Setting



- **Action Triggered Interval**
  Users can set interval when an action is continuously triggered.

- **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, the audio of all cameras will be disabled to do recording until an event is triggered.
  When the event stops, the audio will be disabled again accordingly.

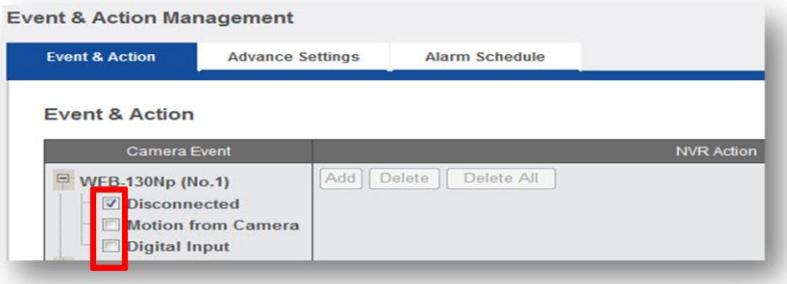
Click "**Apply**" to apply setting.

5.2.5 Alarm Schedule

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

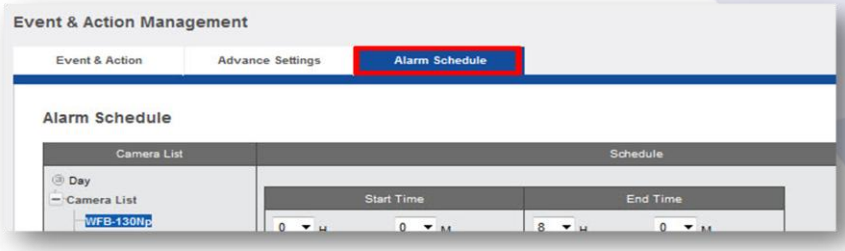
Setup the alarm schedule

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

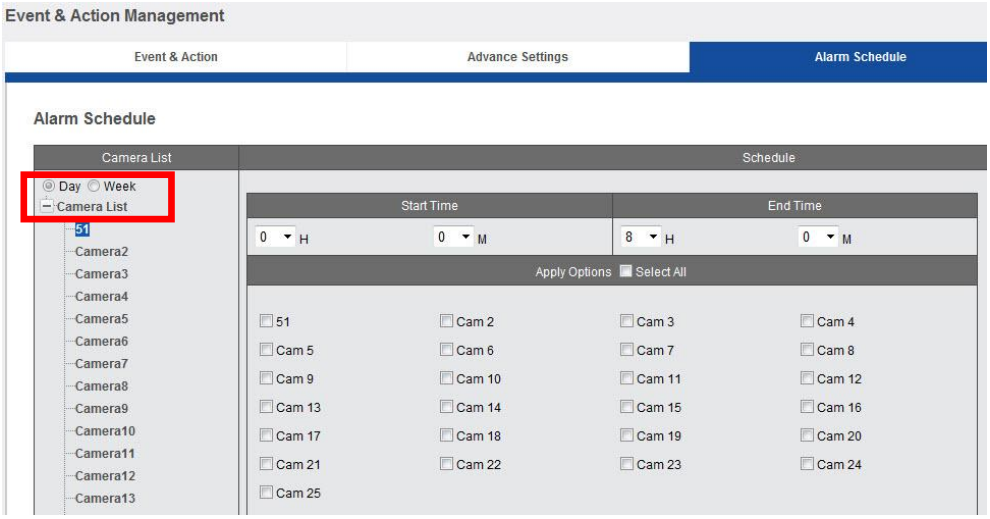


⚠ Note: It will automatically start the alarm schedule with "always" mode.

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

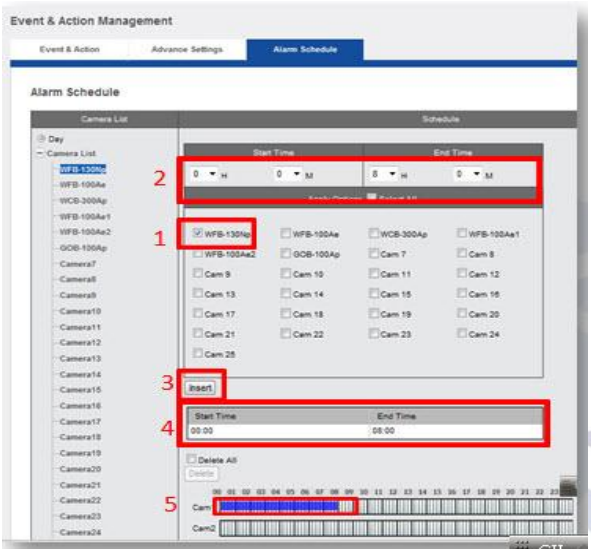


C. Setup the alarm schedule.



Select the type of alarm Schedule

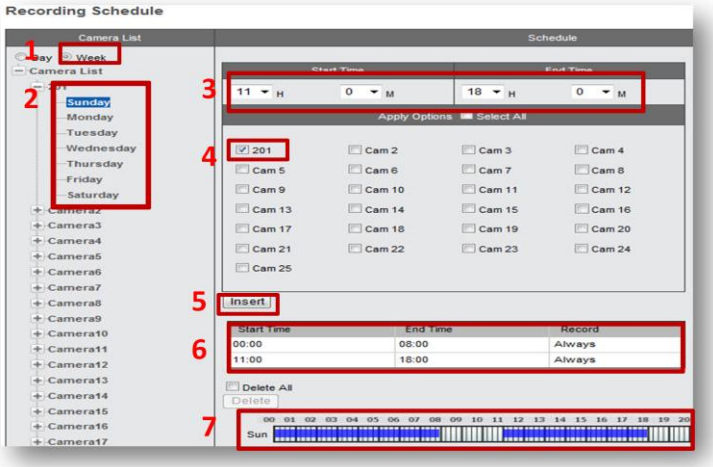
- By Day



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

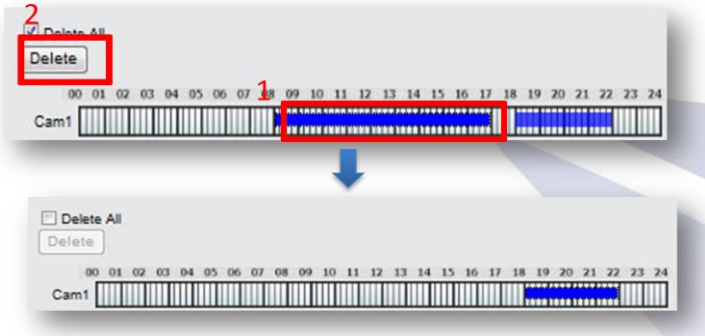


1. Select the schedule as “Week”
2. Select the day for the specific recording schedule
3. Designate the time period
4. Select the camera for adaption
5. Click insert to be effective
6. The designated duration will be displayed
7. The designated duration will be shown in chart

Press “**Apply**”

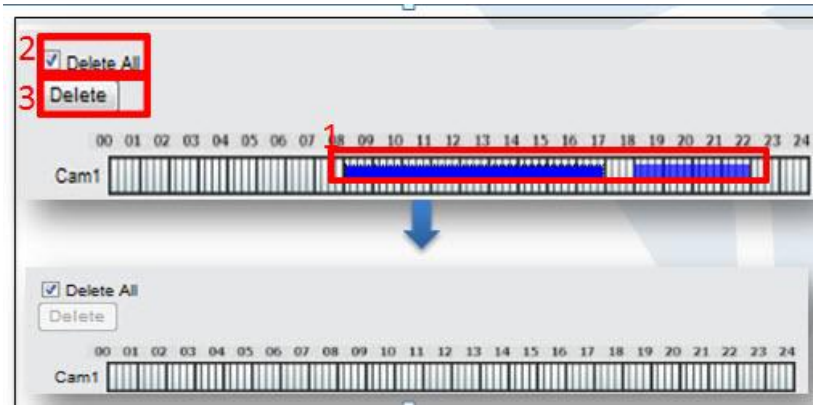
Remove the alarm schedule

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



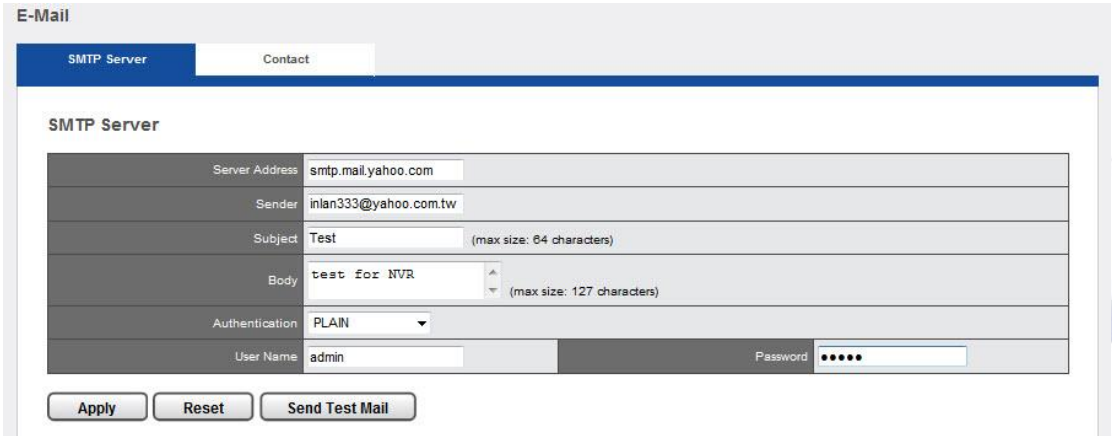
1. Click any period of the camera
2. Select Delete All checkbox
3. Click on Delete button
4. All durations of the camera are removed

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

5.2.5 E-Mail

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

SMTP Server



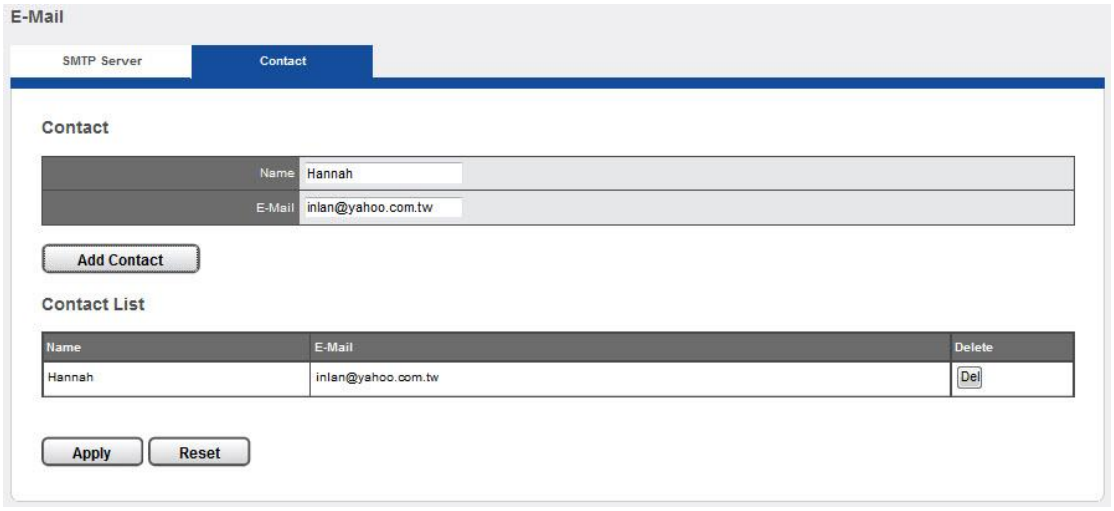
- **Server Address**: Enter the Server Address of the SMTP server.
- **Sender**: Specify sender's E-Mail in the "**Sender**" field.
- **Subject**: Enter the Subject.
- **Body**: Enter the content for Body.

- **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 user name.
- **Password**: Specify user password.

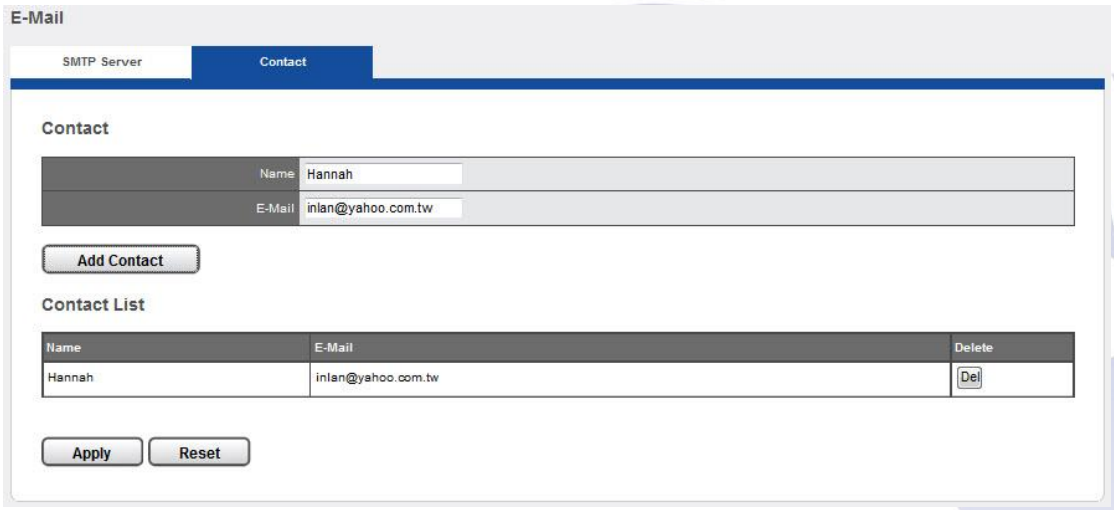
Click "**Apply**" to finish or "**Send Test Mail**" to check the availability.

Contact

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



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.

5.3 Disk Management

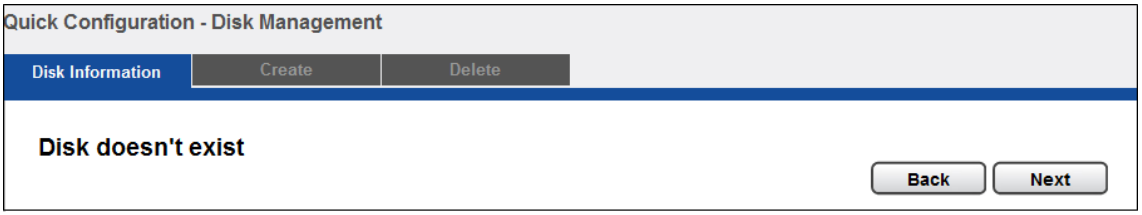
DIGISTOR can create new RAID disk or delete/ format the RAID disk. Also, users can manage DIGISTOR's storage device for data transmission and file sharing service.

5.3.1 Disk Management

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

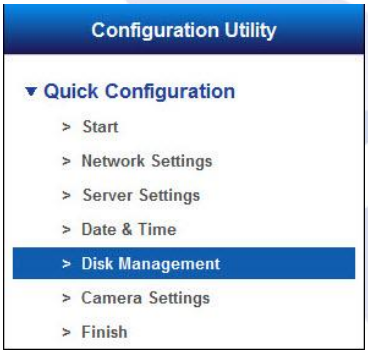
1. Disk Information

When there is no hard disk installed in DIGISTOR, 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.

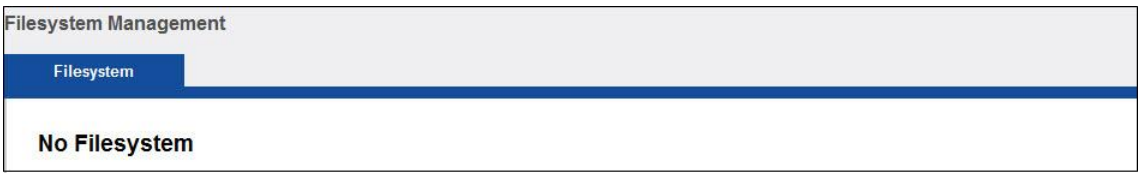
Please select "**Disk Management**" from the drop-down menu of **Quick configuration** to begin.



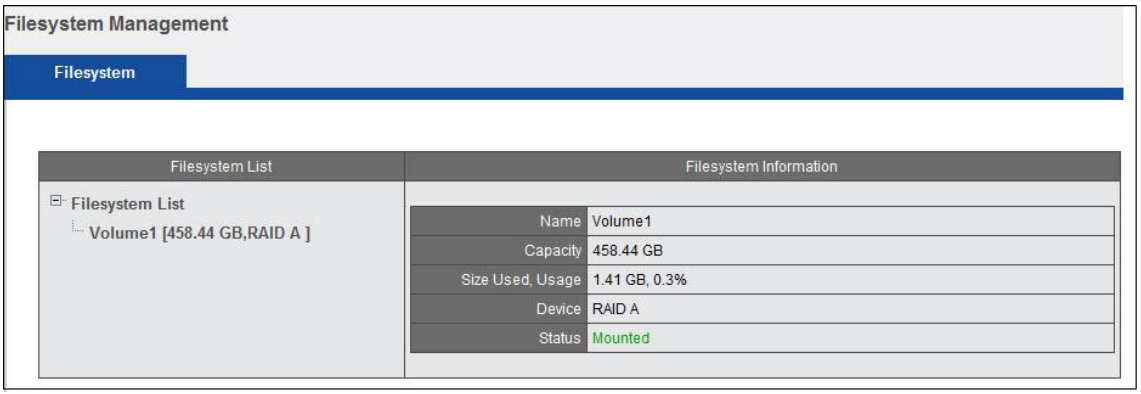
5.3.2 File System Management

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 Filesystem.**"



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

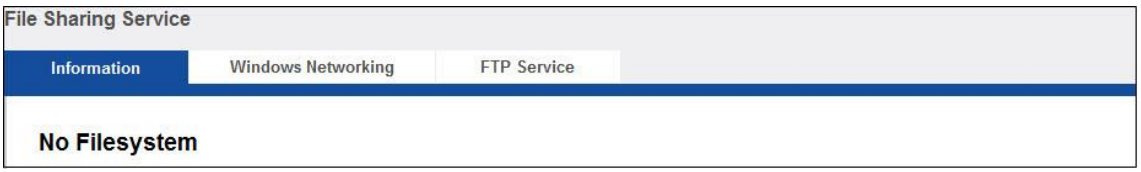


Filesystem provides an efficient method to organize data expected to be retained after a program is terminated by providing procedures to store, retrieve and update data, as well as manage the available space on the device.

5.3.3 File Sharing Service

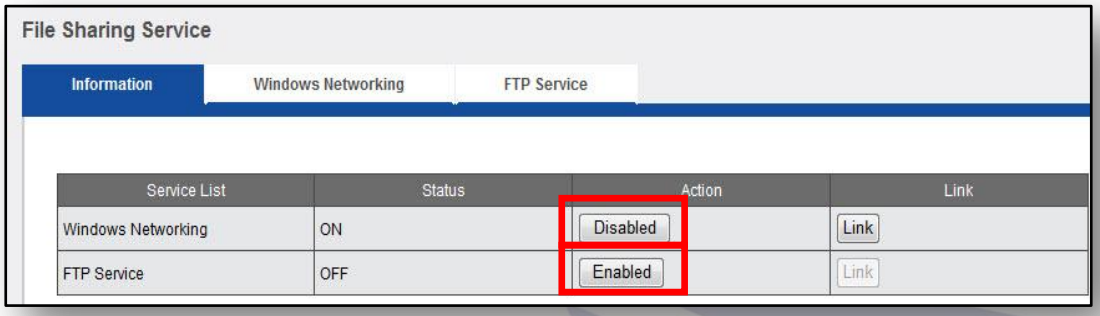
Please select "**File Sharing Service**" from the drop-down menu of **Disk Management** to begin.

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.**"

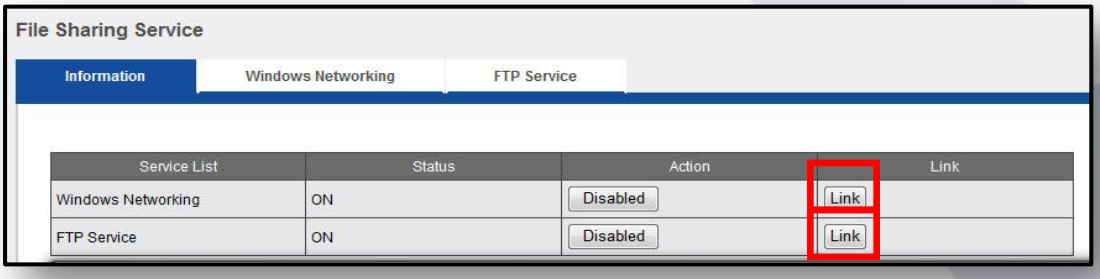


1. Information

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**.

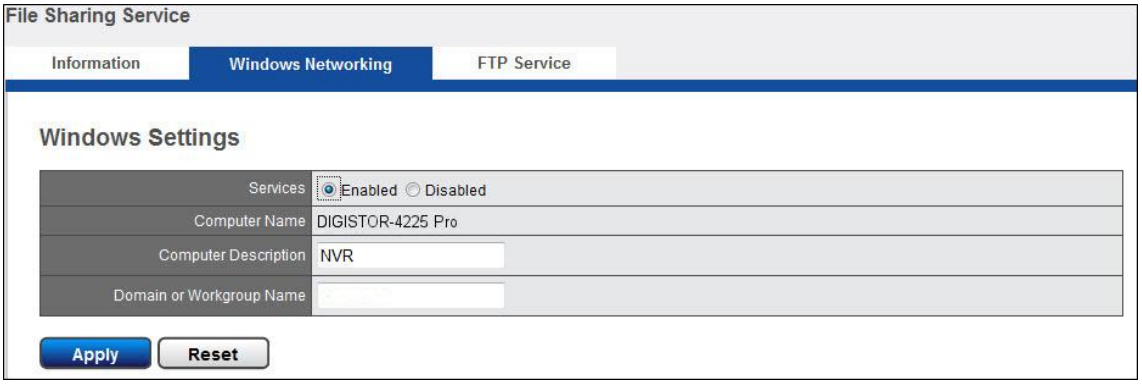


After the service is enable, by using link button on the File Sharing Service page, users can open the dialog of windows to share service and FTP service directly.

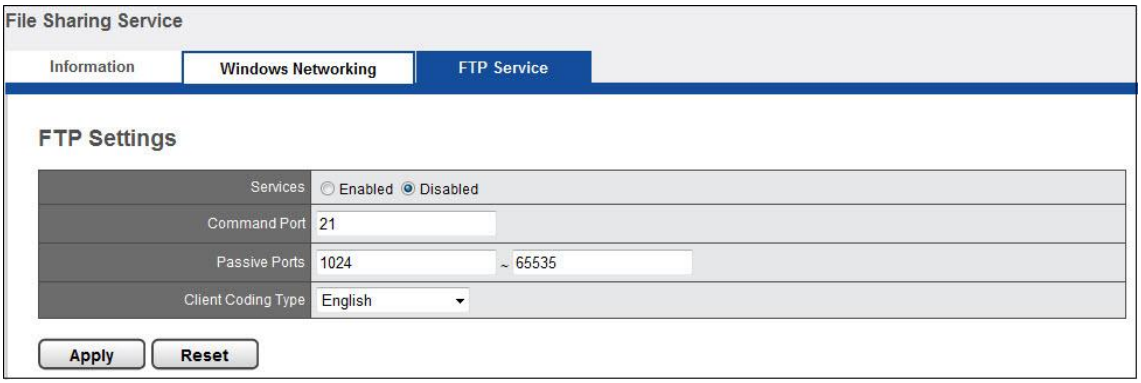


2. Windows Networking

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.



3. FTP Service



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**.

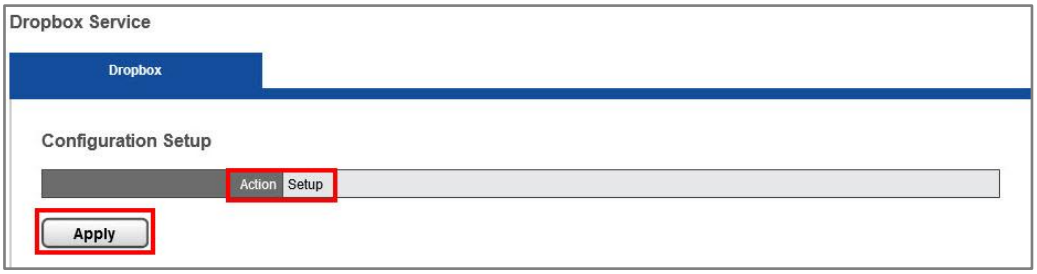
Please click "**Apply**" to finish FTP settings.

5.4 Cloud

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

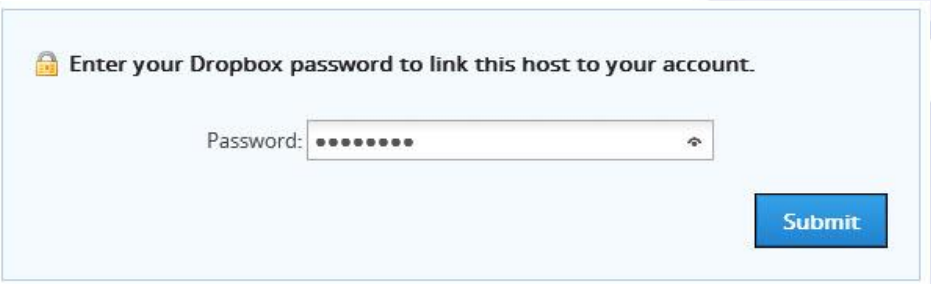
5.4.1 Setup Dropbox Service

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

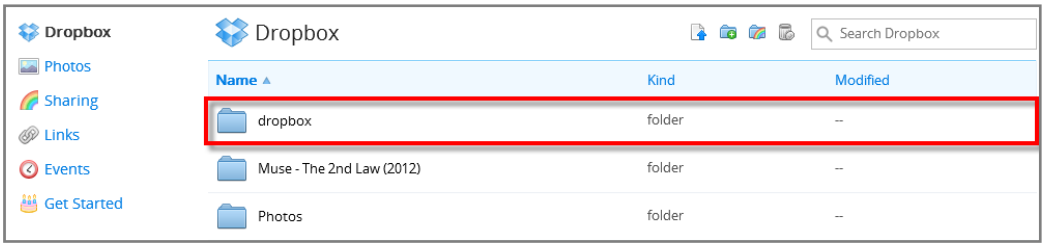


At the same time, a window will pop up to ask users to sign in account.

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



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



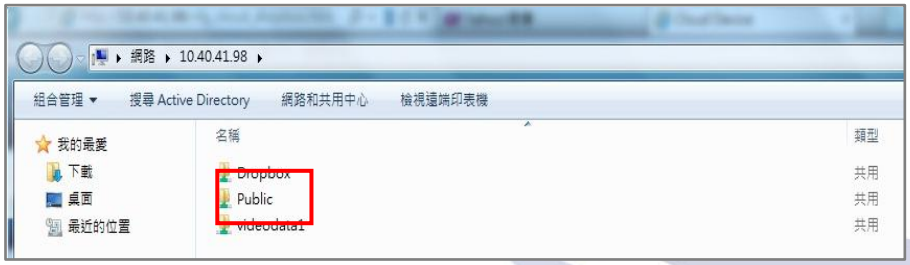
- **Quit Setup**

  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.

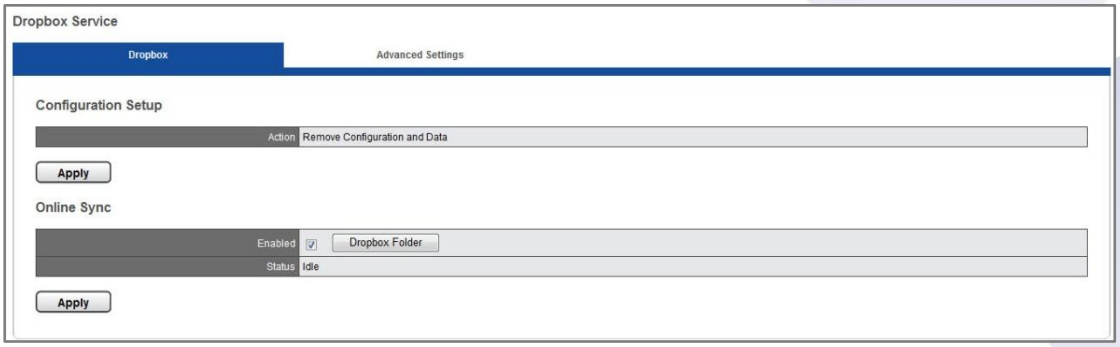
5.4.2 Share Files to Dropbox Server

Users can move the files from **Public** or **Videodata1** to Dropbox folder in order to share files to the clouds.



5.4.3 Remove Configuration and Online Sync

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



1. Remove Configuration and Data

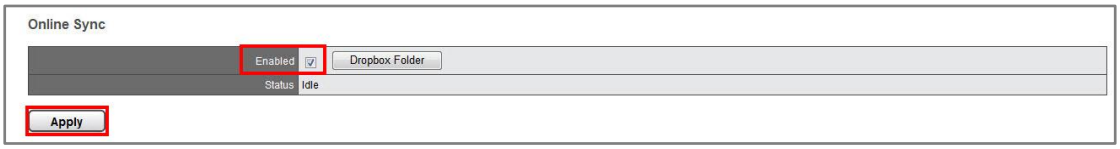
Please Click “**Apply**” to remove Dropbox service from NVR. All configuration and data of Dropbox in NVR will be deleted.

2. Online Sync

Users can choose whether NVR automatically synchronizes with Dropbox.

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

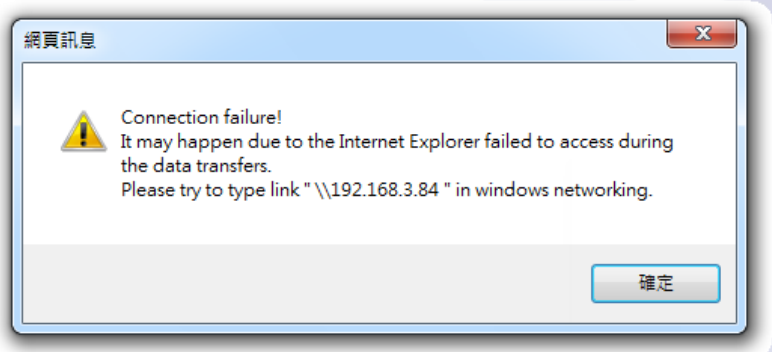
If users want to disable synchronization, please uncheck “Enable ” and click “Apply.”



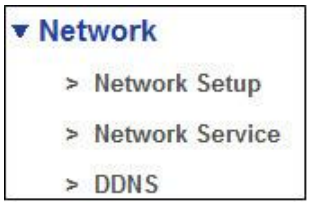
Dropbox Folder

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.

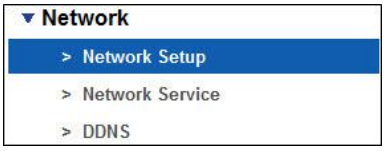


5.5 Network Setup



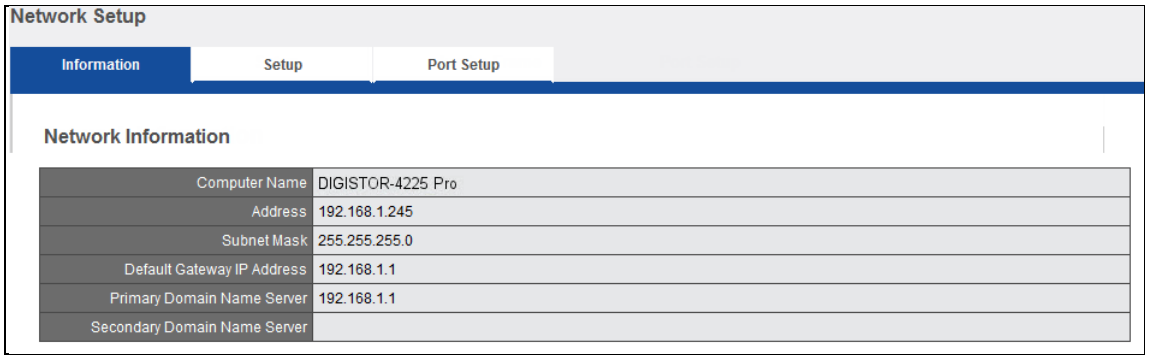
5.5.1 Network Setup

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



This section explains how to configure network connection with NVR.

1. Information

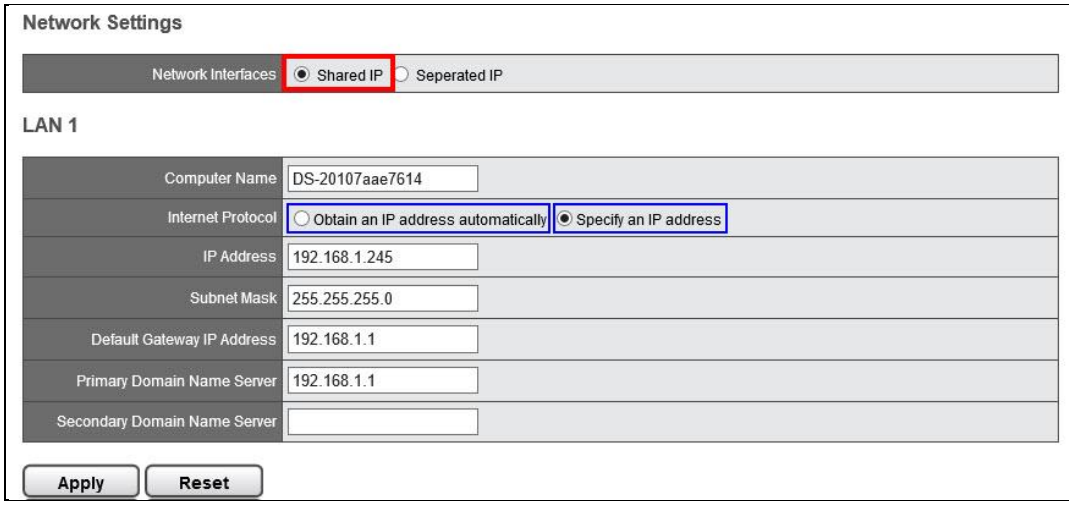


Network information displays present network configuration including: **Computer Name**, **IP address**, **Subnet mask, Default Gateway**, **Primary and Secondary DNS**.

2. Setup

NVR supports dual IP to set up different network environments in network settings.

Shared IP

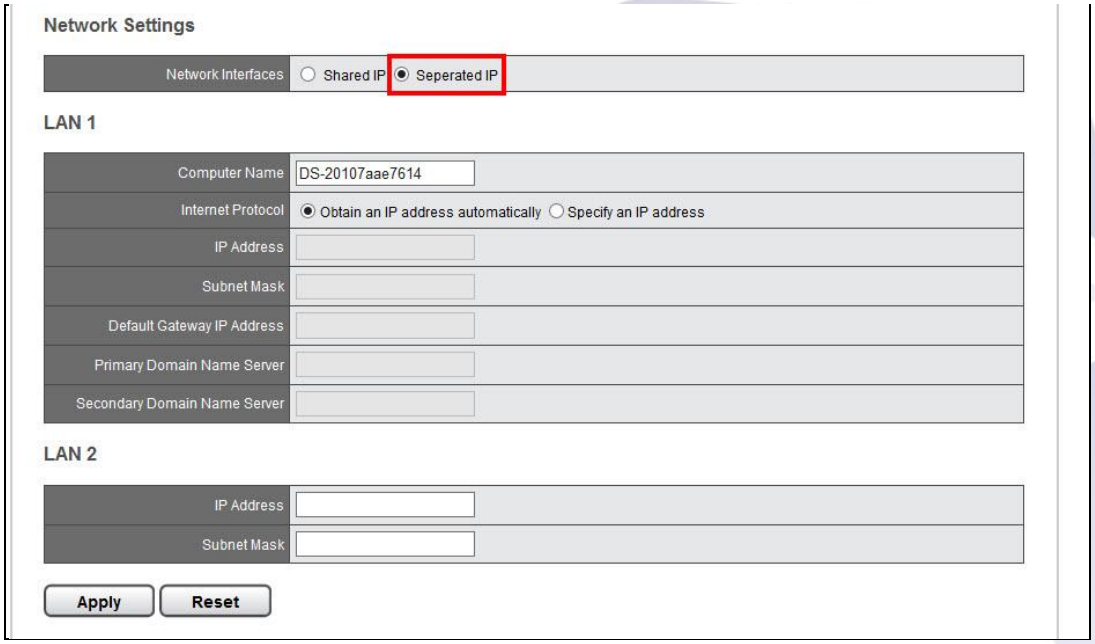


Users can rename **Computer Name** and to assign **DHCP** or **Static IP**.

- **DHCP**: Obtain an available dynamic IP address assigned by a DHCP server. If this option is selected, DIGISTOR 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 sett different IP address of DIGISTOR if there is more than one DIGISTOR in the network.

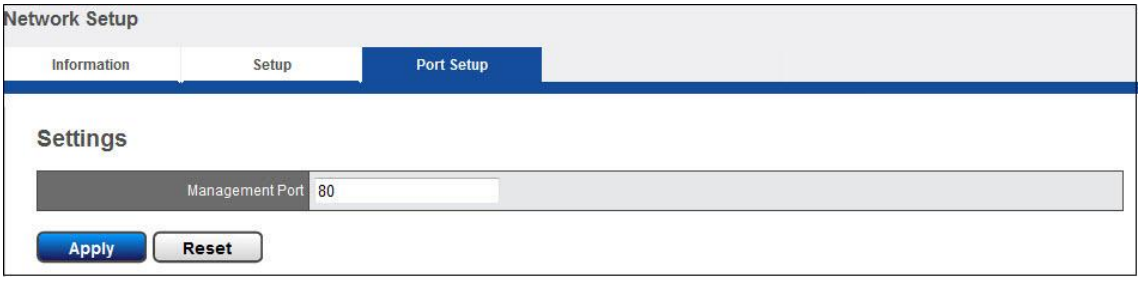
Separated IP



Please enter two IP address to in LAN1 and LAN2 to set up different network environments.

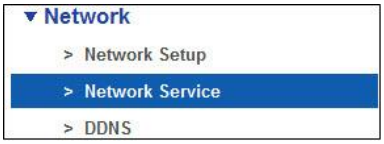
3. Port Setup

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

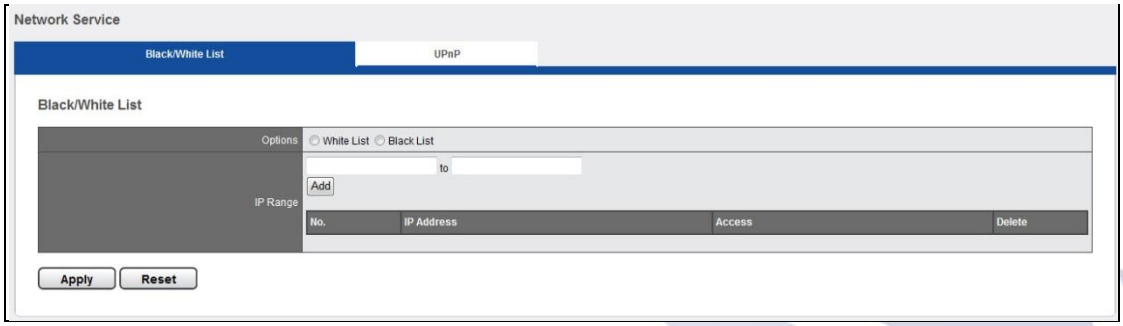


5.5.2 Network Service

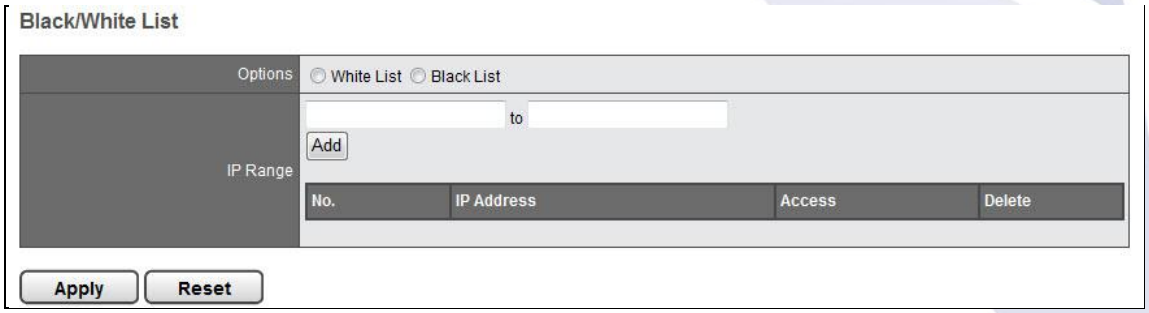
Please select "**Network Service**" from the drop-down menu of **Network** to begin.



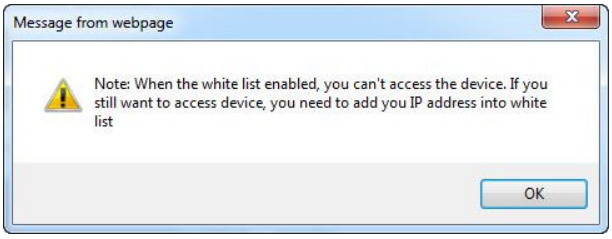
1. Black/ White List



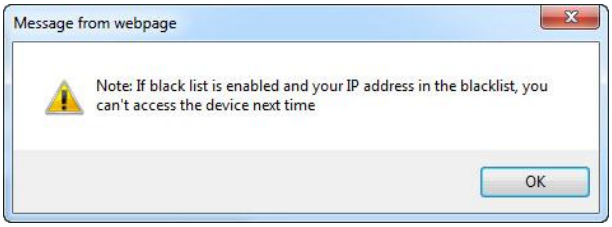
Edit **White** or **Black List** to **allow** or **block** different IP address.



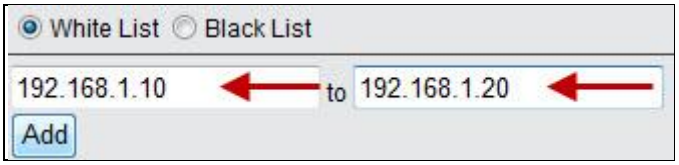
As White List is enabled, a window will pop up to make sure the execution.



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

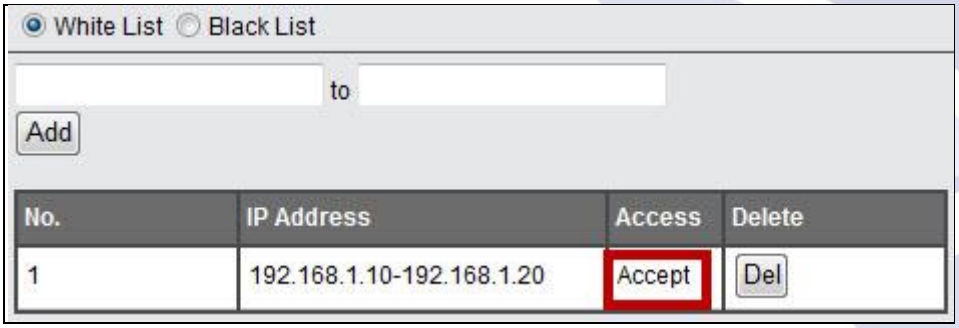


Please enter the IP address range to add to White List or Black List.

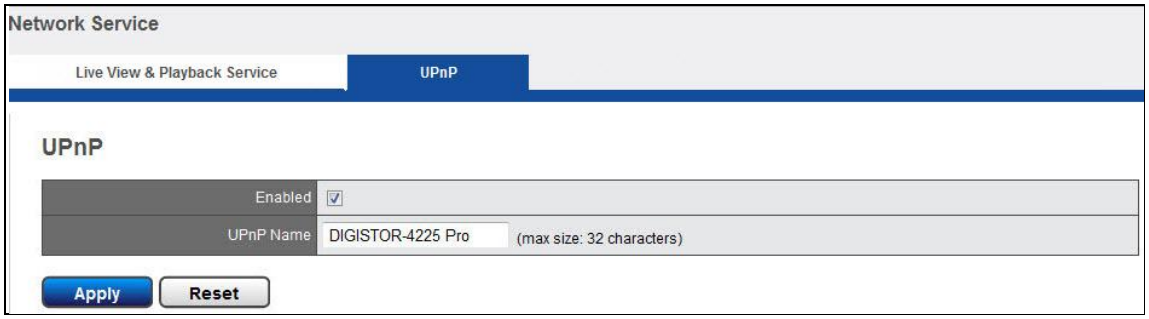


Note: The above IP address is only an example for reference. User is recommanded to add White List or Black List carefully according to different demand. Also, user can set either White List or Black List in the same time.

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.



2. UPnP



Enable or disable **UPnP** search.

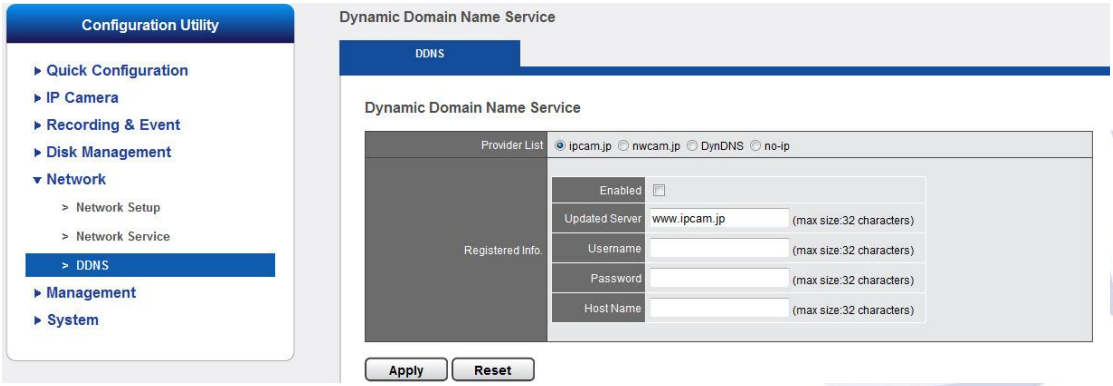
Rename **UPnP**.

Note: The maximum character limitation for UPnP Name is **32** characters.

Please click "**Apply**" to execute the settings.

5.5.3 DDNS

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



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

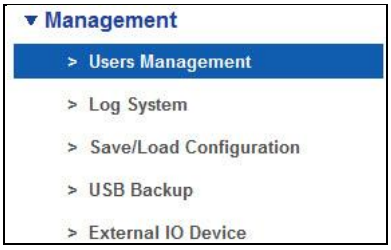
Note: Before utilizing this function, please apply for a dynamic domain account from a DDNS provider.

5.6 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.

5.5.1 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.

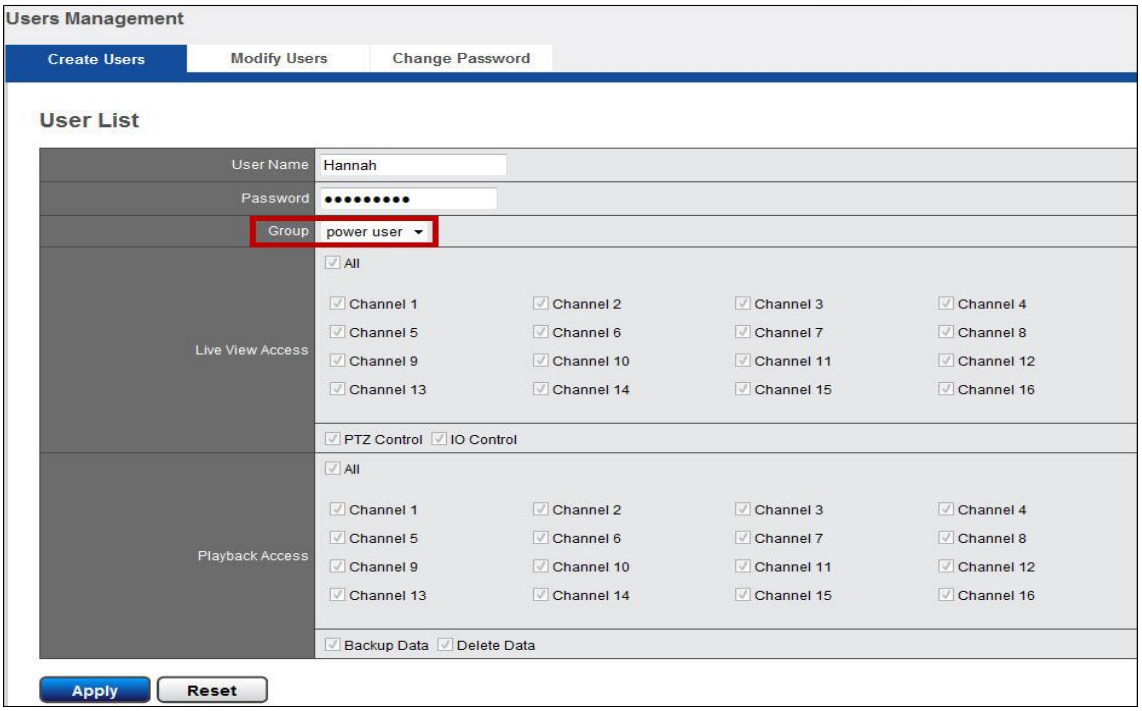
1. Create User

Please go to Create User page

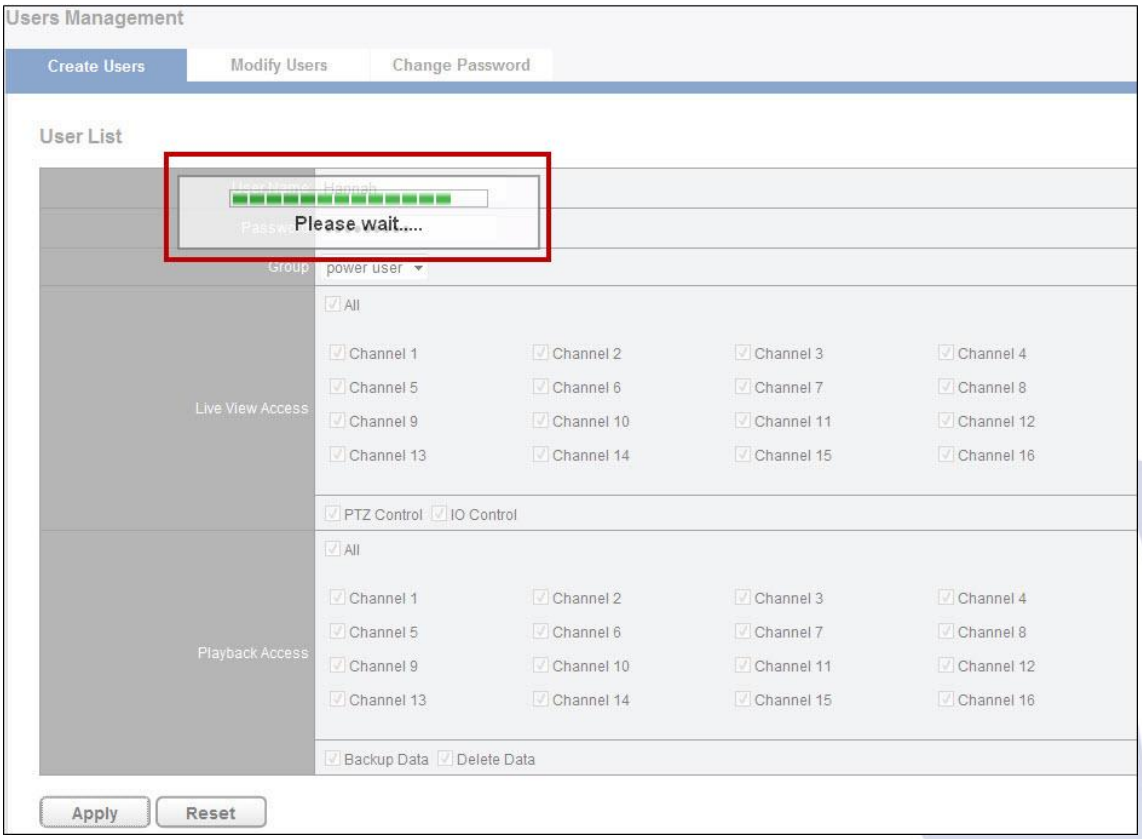
- **Power User**

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

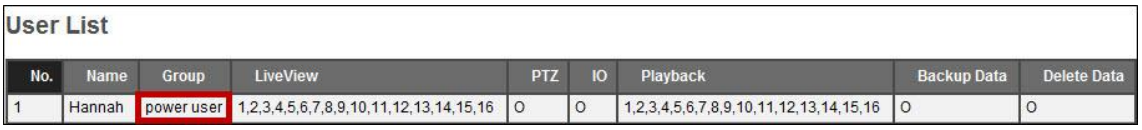
Live View Access and Playback Access are selected automatically for Power User.



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



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

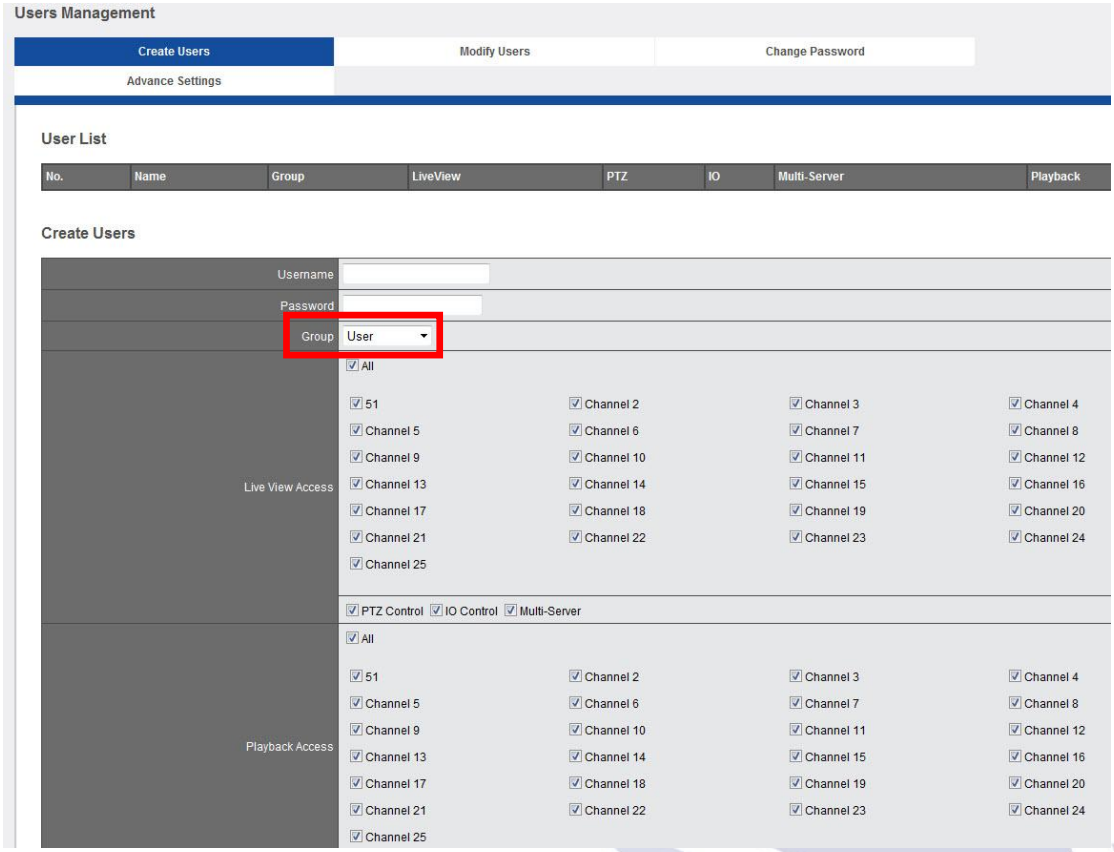


User List

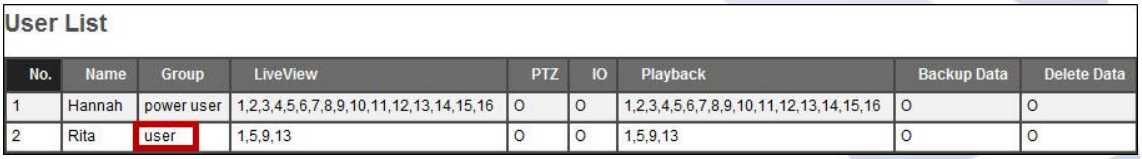
No.	Name	Group	LiveView	PTZ	IO	Playback	Backup Data	Delete Data
1	Hannah	power user	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	O	O

- **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.



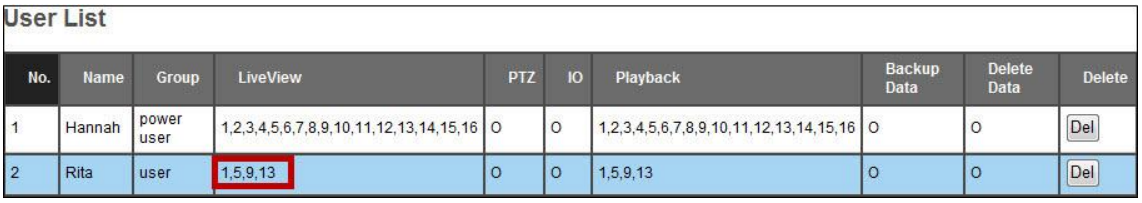
User List

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

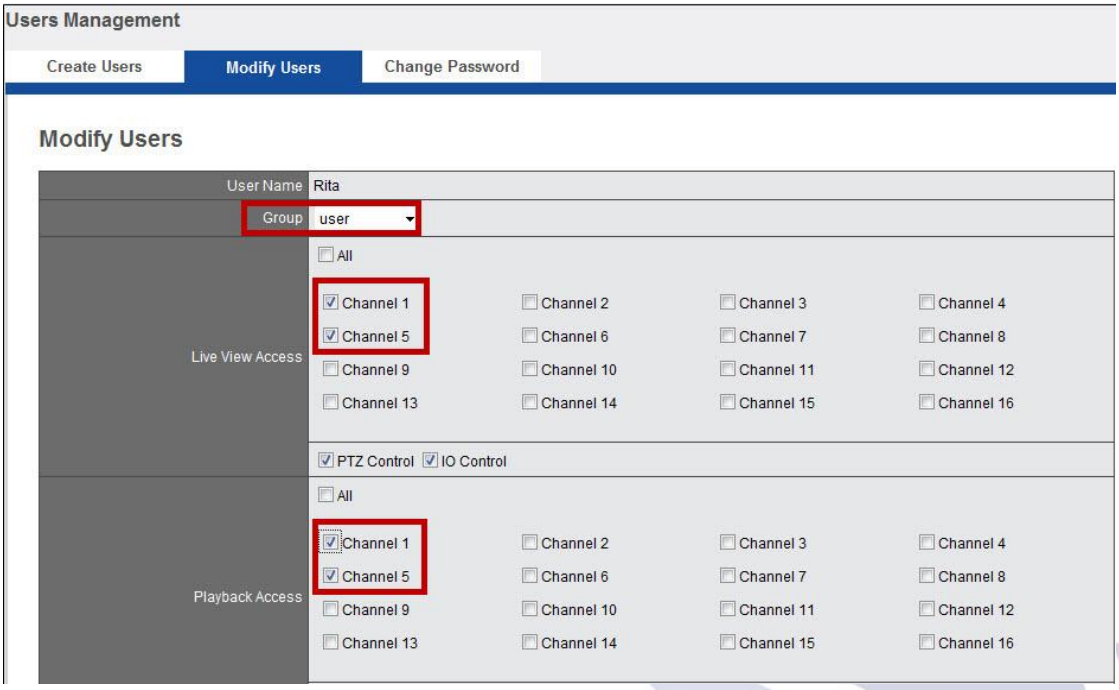
2. Modify User

Please go to Modify User page.

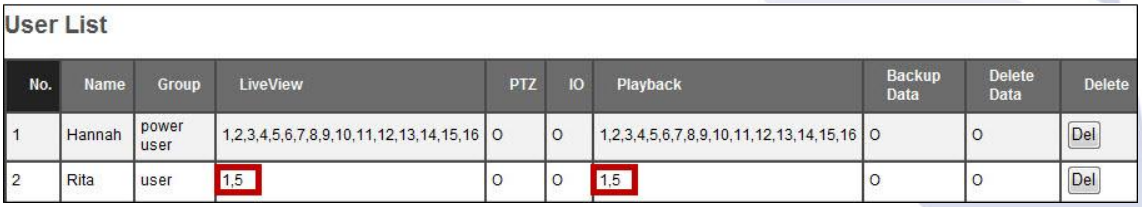
Select an account to modify the Power User or User.



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.



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

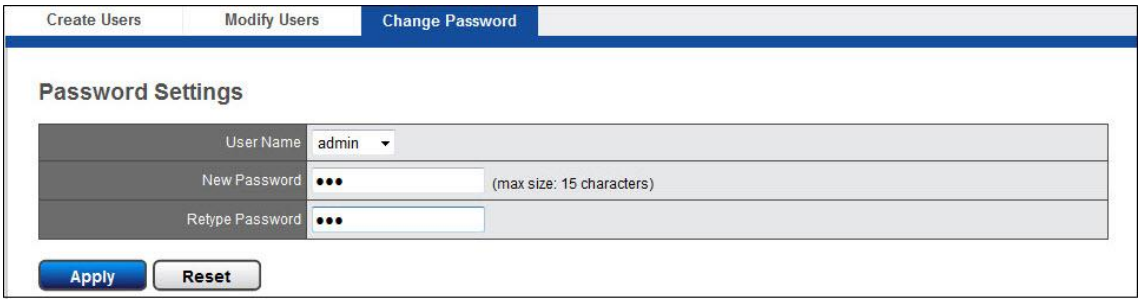


To delete the user account, please click "**Del**." from User List.

3. Change Password

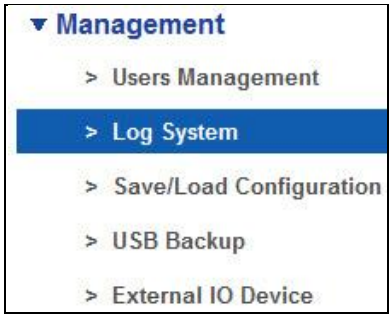
Each NVR comes with a built-in "**admin**" account with password "**admin**" for administrators. It's highly recommended to change the password upon the initial login.

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.

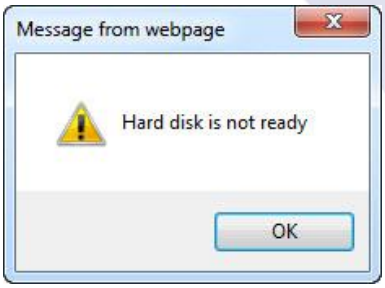


5.5.2 Log System

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



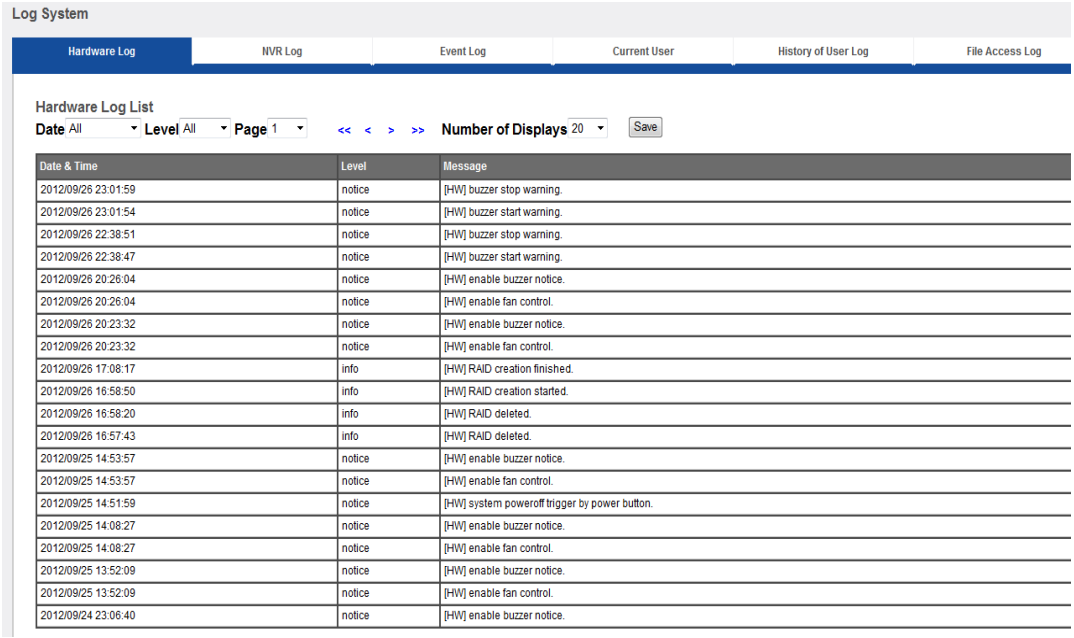
If the hard disk is not installed, the following window will pop up when you click "**Log System**."



After the hard disk is ready, Log system stats 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**

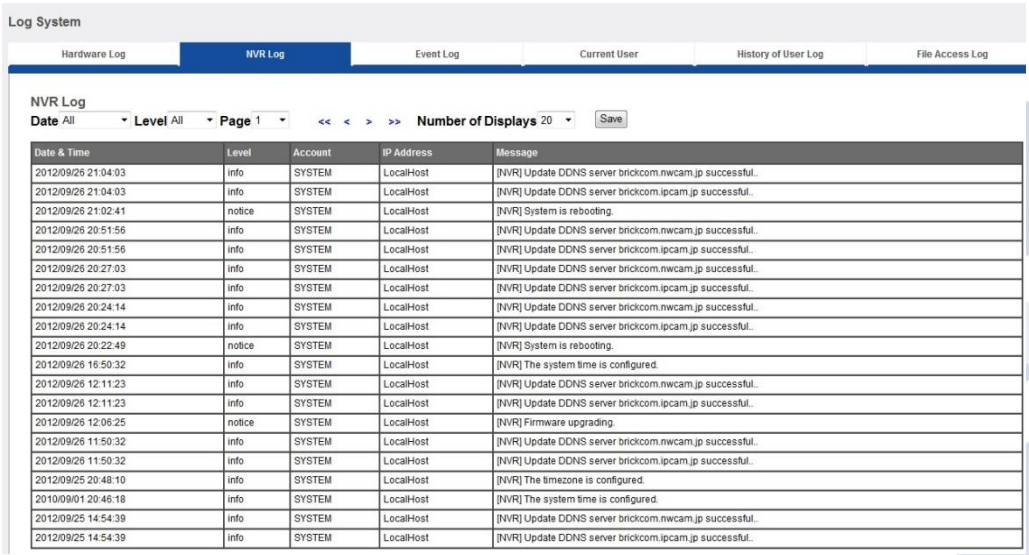
The log information in Hardware Log includes **RAID creation**, **RAID deletion**, **RAID modification**, **CPU, buzzer, fan**, **system**, **sensor** and **USB.**



Date & Time	Level	Message
2012/09/26 23:01:59	notice	[HW] buzzer stop warning.
2012/09/26 23:01:54	notice	[HW] buzzer start warning.
2012/09/26 22:38:51	notice	[HW] buzzer stop warning.
2012/09/26 22:38:47	notice	[HW] buzzer start warning.
2012/09/26 20:26:04	notice	[HW] enable buzzer notice.
2012/09/26 20:26:04	notice	[HW] enable fan control.
2012/09/26 20:23:32	notice	[HW] enable buzzer notice.
2012/09/26 20:23:32	notice	[HW] enable fan control.
2012/09/26 17:08:17	info	[HW] RAID creation finished.
2012/09/26 16:58:50	info	[HW] RAID creation started.
2012/09/26 16:58:20	info	[HW] RAID deleted.
2012/09/26 16:57:43	info	[HW] RAID deleted.
2012/09/25 14:53:57	notice	[HW] enable buzzer notice.
2012/09/25 14:53:57	notice	[HW] enable fan control.
2012/09/25 14:51:59	notice	[HW] system poweroff trigger by power button.
2012/09/25 14:08:27	notice	[HW] enable buzzer notice.
2012/09/25 14:08:27	notice	[HW] enable fan control.
2012/09/25 13:52:09	notice	[HW] enable buzzer notice.
2012/09/25 13:52:09	notice	[HW] enable fan control.
2012/09/24 23:06:40	notice	[HW] enable buzzer notice.

- **NVR Log**

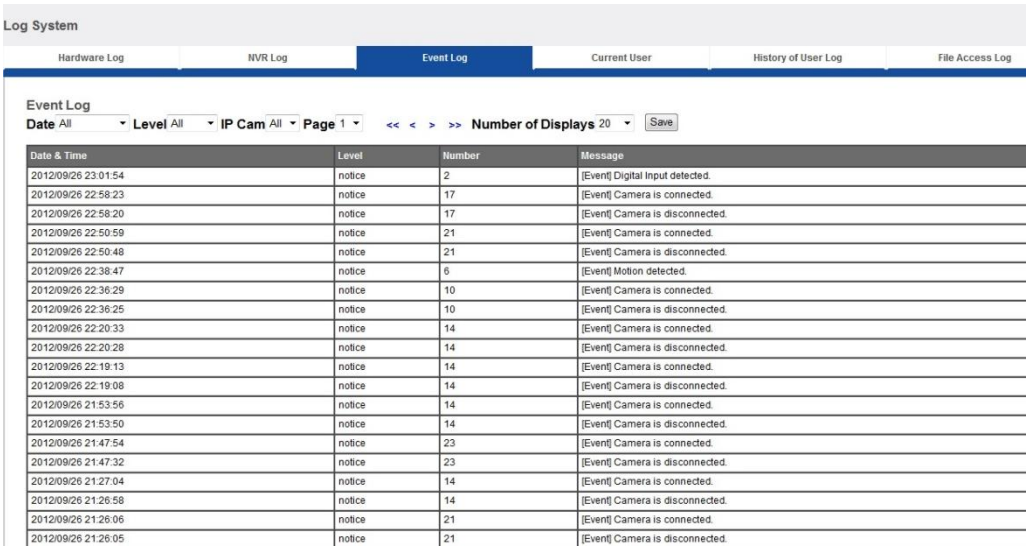
The log information in NVR Log includes **time zone**, **daylight**, **system, firmware upgrading, configuration IP**, **recording files export,** and **storage**.



Date & Time	Level	Account	IP Address	Message
2012/09/26 21:04:03	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 21:04:03	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 21:02:41	notice	SYSTEM	LocalHost	[NVR] System is rebooting.
2012/09/26 20:51:56	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 20:51:56	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 20:27:03	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 20:27:03	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 20:24:14	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 20:24:14	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 20:22:49	notice	SYSTEM	LocalHost	[NVR] System is rebooting.
2012/09/26 16:50:32	info	SYSTEM	LocalHost	[NVR] The system time is configured.
2012/09/26 12:11:23	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 12:11:23	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/26 12:06:25	notice	SYSTEM	LocalHost	[NVR] Firmware upgrading.
2012/09/26 11:50:32	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/26 11:50:32	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..
2012/09/25 20:48:10	info	SYSTEM	LocalHost	[NVR] The timezone is configured.
2010/09/01 20:46:18	info	SYSTEM	LocalHost	[NVR] The system time is configured.
2012/09/25 14:54:39	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.nwcam.jp successful..
2012/09/25 14:54:39	info	SYSTEM	LocalHost	[NVR] Update DDNS server brickcom.ipcam.jp successful..

- **Event Log**

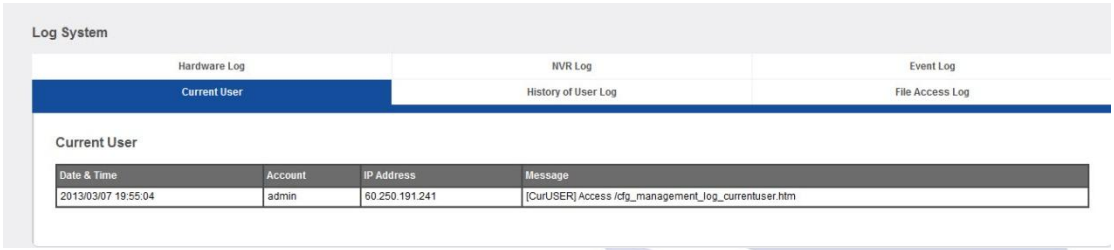
The log information in Event Log includes "**Camera is connected**," "**The camera is disconnected**," "**Digital Input**," "**Motion detected**" and "**Storage usage is out of limit,**" etc.



Date & Time	Level	Number	Message
2012/09/26 23:01:54	notice	2	[Event] Digital Input detected.
2012/09/26 22:58:23	notice	17	[Event] Camera is connected.
2012/09/26 22:58:20	notice	17	[Event] Camera is disconnected.
2012/09/26 22:50:59	notice	21	[Event] Camera is connected.
2012/09/26 22:50:48	notice	21	[Event] Camera is disconnected.
2012/09/26 22:38:47	notice	6	[Event] Motion detected.
2012/09/26 22:36:29	notice	10	[Event] Camera is connected.
2012/09/26 22:36:25	notice	10	[Event] Camera is disconnected.
2012/09/26 22:20:33	notice	14	[Event] Camera is connected.
2012/09/26 22:20:28	notice	14	[Event] Camera is disconnected.
2012/09/26 22:19:13	notice	14	[Event] Camera is connected.
2012/09/26 22:19:08	notice	14	[Event] Camera is disconnected.
2012/09/26 21:53:56	notice	14	[Event] Camera is connected.
2012/09/26 21:53:50	notice	14	[Event] Camera is disconnected.
2012/09/26 21:47:54	notice	23	[Event] Camera is connected.
2012/09/26 21:47:32	notice	23	[Event] Camera is disconnected.
2012/09/26 21:27:04	notice	14	[Event] Camera is connected.
2012/09/26 21:26:58	notice	14	[Event] Camera is disconnected.
2012/09/26 21:26:06	notice	21	[Event] Camera is connected.
2012/09/26 21:26:05	notice	21	[Event] Camera is disconnected.

- **Current User**

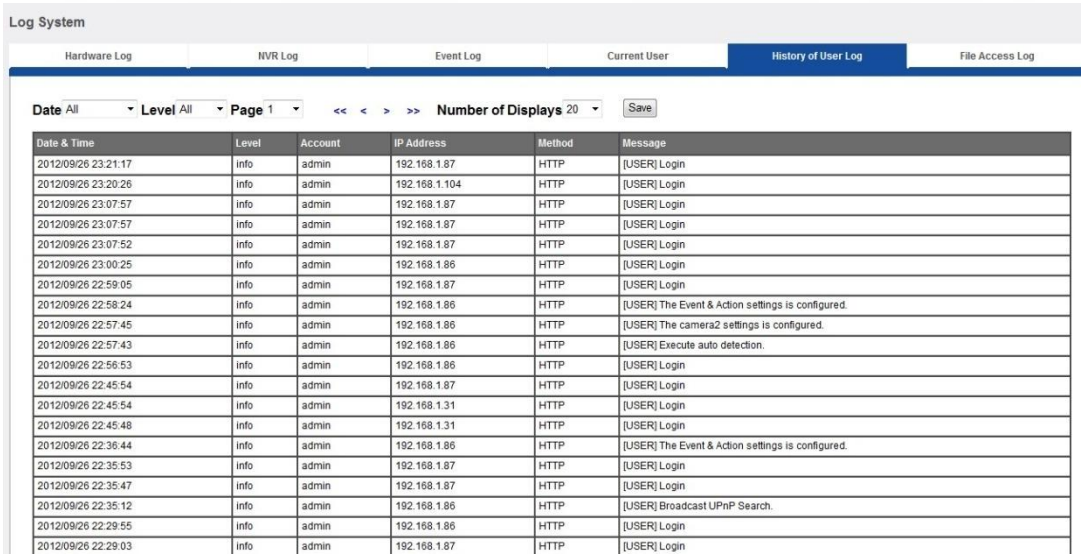
The log information in Current User shows the current users logged in the NVR with IP address.



Date & Time	Account	IP Address	Message
2013/03/07 19:55:04	admin	60.250.191.241	[CurUSER] Access /cfg_management_log_currentuser.htm

- **Historical User Log**

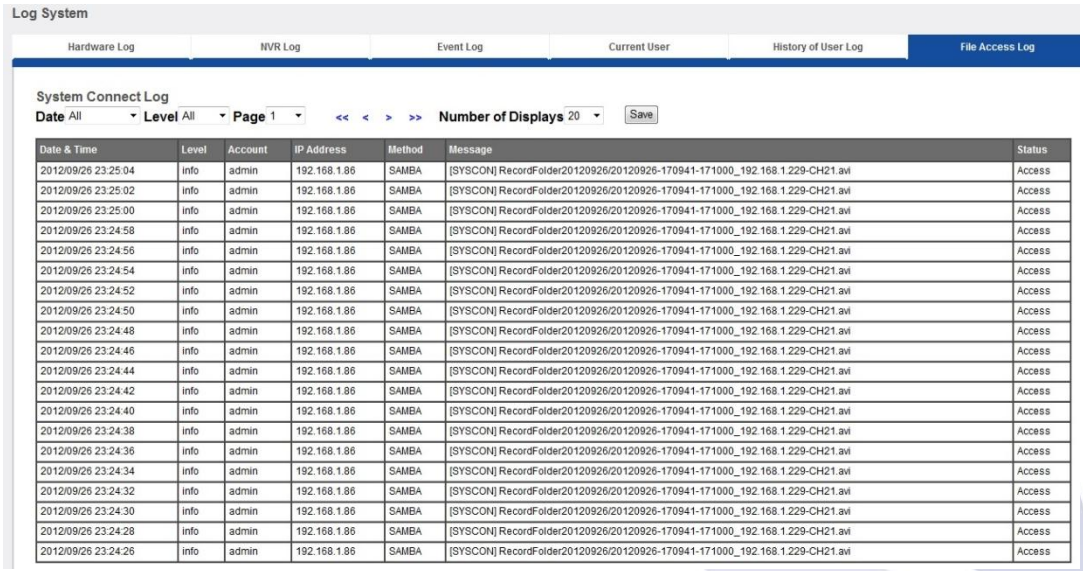
The log information in Historical User Log records any user who has logged in the NVR. For example, "**Execute detect**," "**Motion detected**," "**FTP service is configured**," "**Account is created**," "**Execute system shutdown**," etc.



Date & Time	Level	Account	IP Address	Method	Message
2012/09/26 23:21:17	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 23:20:26	info	admin	192.168.1.104	HTTP	[USER] Login
2012/09/26 23:07:57	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 23:07:57	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 23:07:52	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 23:00:25	info	admin	192.168.1.86	HTTP	[USER] Login
2012/09/26 22:59:05	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 22:58:24	info	admin	192.168.1.86	HTTP	[USER] The Event & Action settings is configured.
2012/09/26 22:57:45	info	admin	192.168.1.86	HTTP	[USER] The camera2 settings is configured.
2012/09/26 22:57:43	info	admin	192.168.1.86	HTTP	[USER] Execute auto detection.
2012/09/26 22:56:53	info	admin	192.168.1.86	HTTP	[USER] Login
2012/09/26 22:45:54	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 22:45:54	info	admin	192.168.1.31	HTTP	[USER] Login
2012/09/26 22:45:48	info	admin	192.168.1.31	HTTP	[USER] Login
2012/09/26 22:36:44	info	admin	192.168.1.86	HTTP	[USER] The Event & Action settings is configured.
2012/09/26 22:35:53	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 22:35:47	info	admin	192.168.1.87	HTTP	[USER] Login
2012/09/26 22:35:12	info	admin	192.168.1.86	HTTP	[USER] Broadcast UPnP Search.
2012/09/26 22:29:55	info	admin	192.168.1.86	HTTP	[USER] Login
2012/09/26 22:29:03	info	admin	192.168.1.87	HTTP	[USER] Login

- **File Access Log**

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

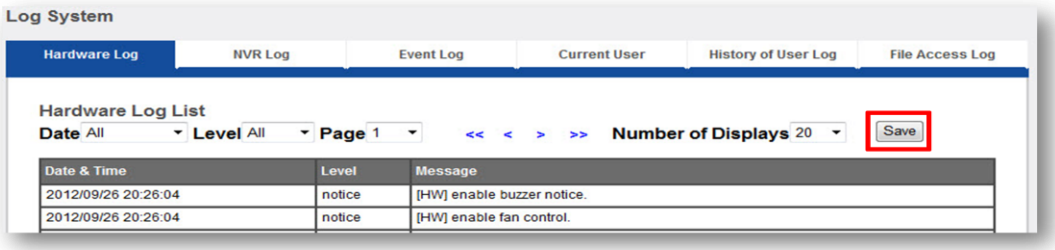


Date & Time	Level	Account	IP Address	Method	Message	Status
2012/09/26 23:25:04	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:25:02	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:25:00	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:58	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:56	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:54	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:52	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:50	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:48	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:46	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:44	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:42	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:40	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:38	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:36	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:34	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:32	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:30	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:28	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access
2012/09/26 23:24:26	info	admin	192.168.1.86	SAMBA	[SYSCON] RecordFolder20120926/20120926-170941-171000_192.168.1.229-CH21.avi	Access

Export the log files

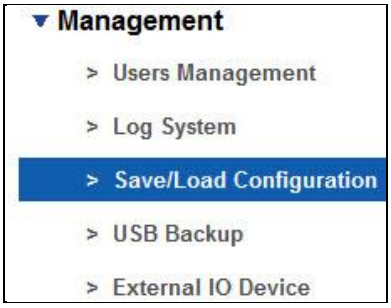
Users can export and save log files from Log System page. And each log types correspond to one log file.

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



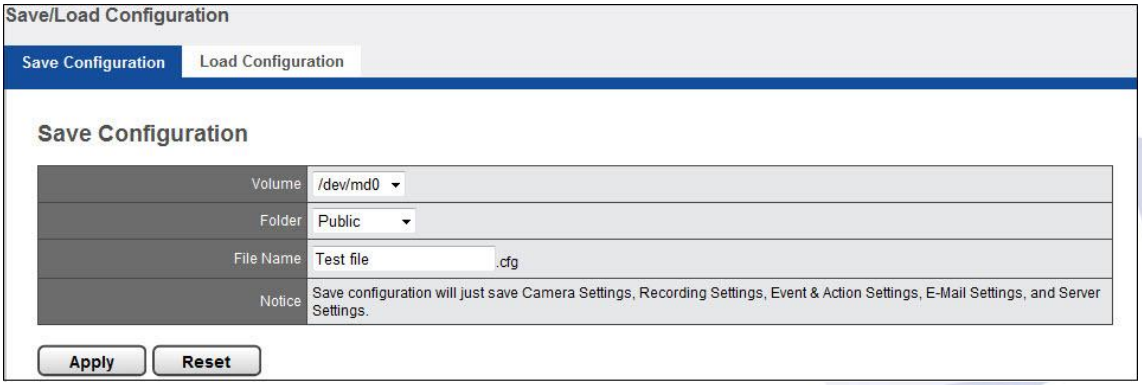
5.5.3 Save/Load Configuration

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



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

- **Save Configuration**

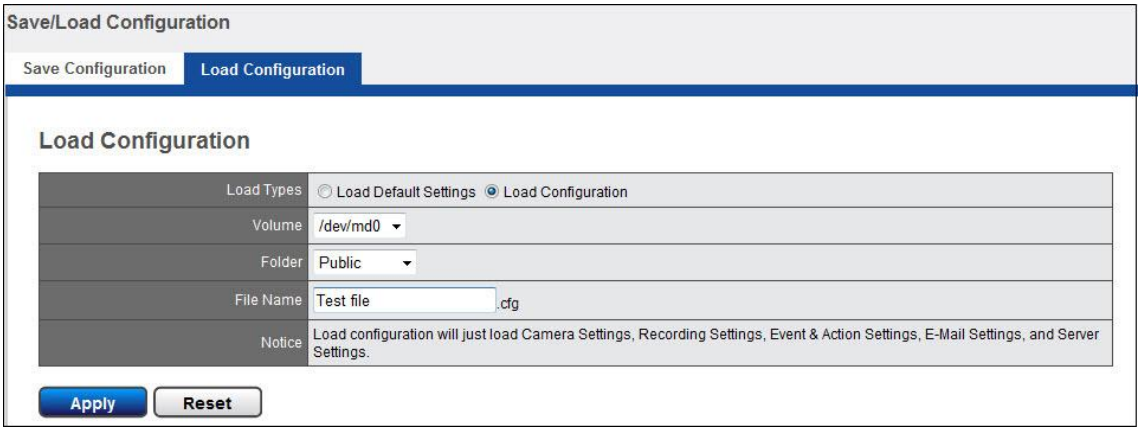


Select Volume and Folder to save configuration in a format of cfg file and specify the File Name.

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**



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.

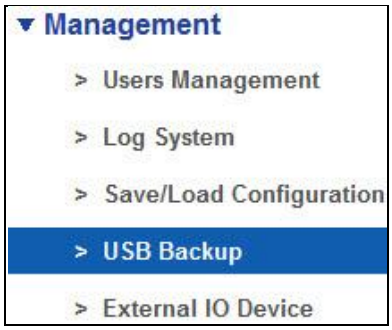
5.5.4 USB Backup

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 inserts **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.

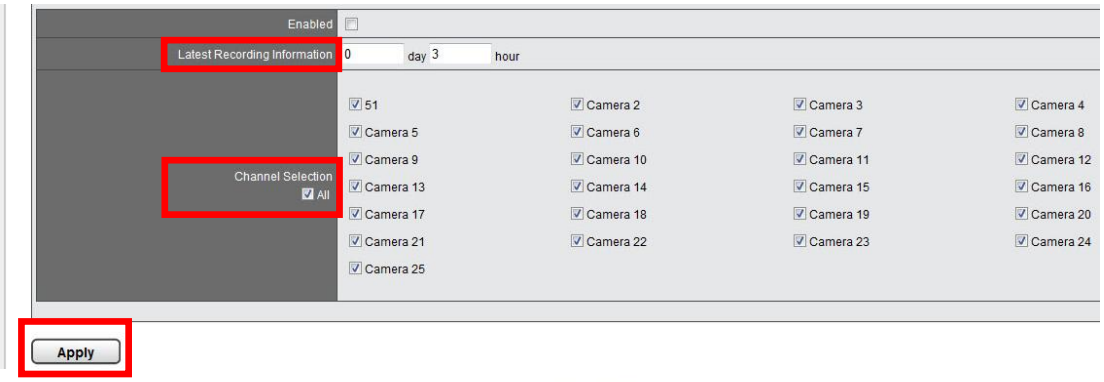
Note: USB device format should be FAT32 file system.

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

- 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, and click "**Apply**" to finish configuration.

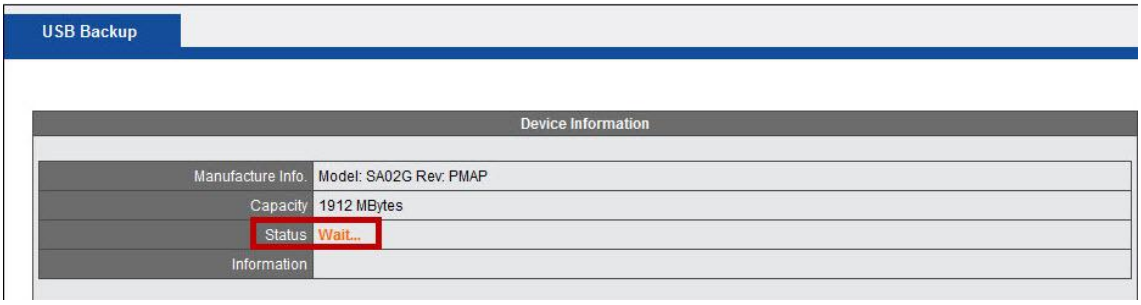


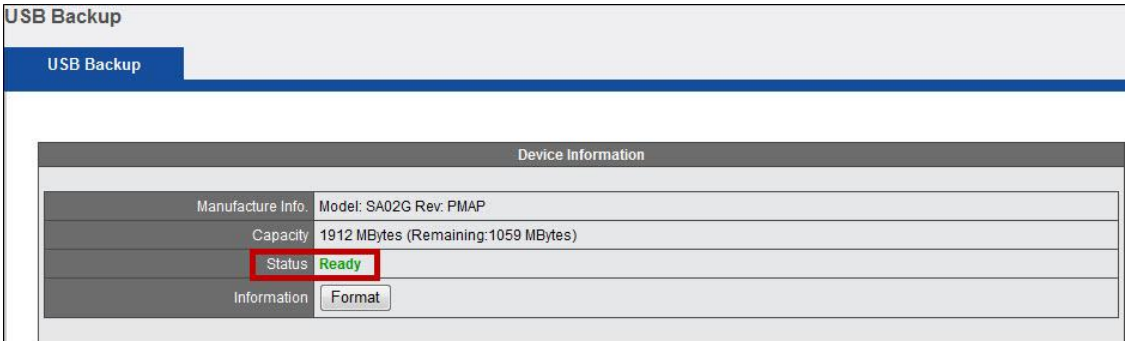
After finishing setup, users can insert a USB device or USB type DVD burner to the local NVR to backup the latest video files.

1. USB Backup

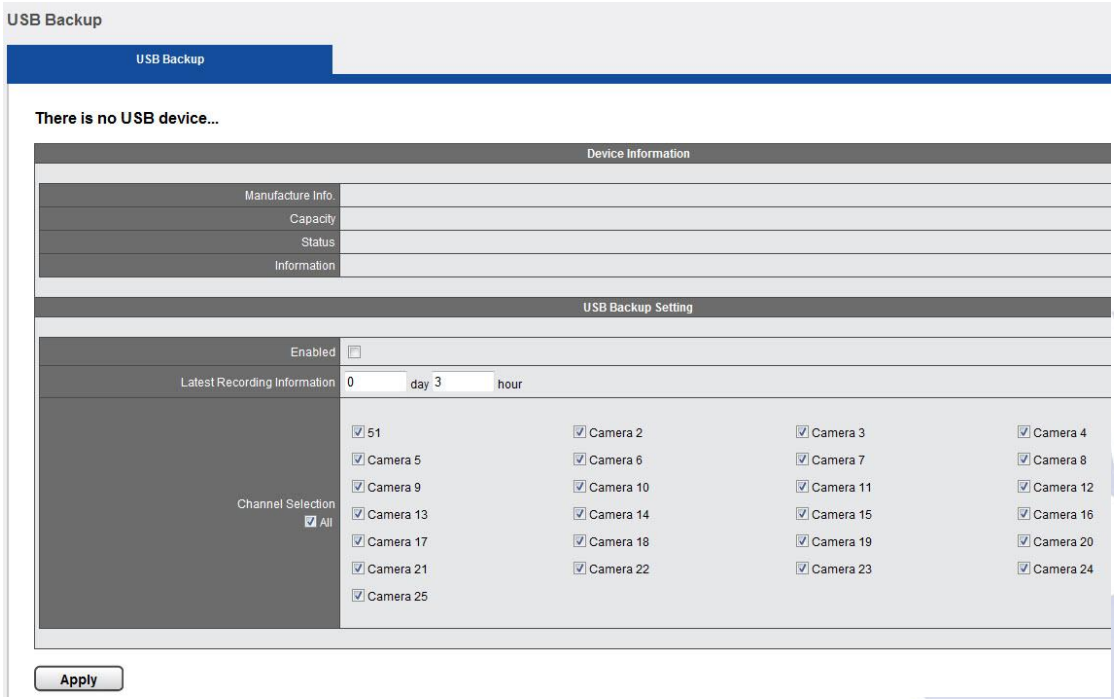
When a USB device is inserted to the NVR, the USB Backup Device Information in Remote Browser will show the status "**Wait... .**" When the USB is ready to begin, the Device Information will show the status "**Ready,**" and the USB LED indicator will show blue. If you need to delete the current data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

Note: USB backup is supported in DS-2000 Series, DS-4000 Series, DS-4200 Pro Series and DS-8200-RM Pro Series.





Note: If there is no USB inserted into NVR, the screen will show "**There is no USB device…**"

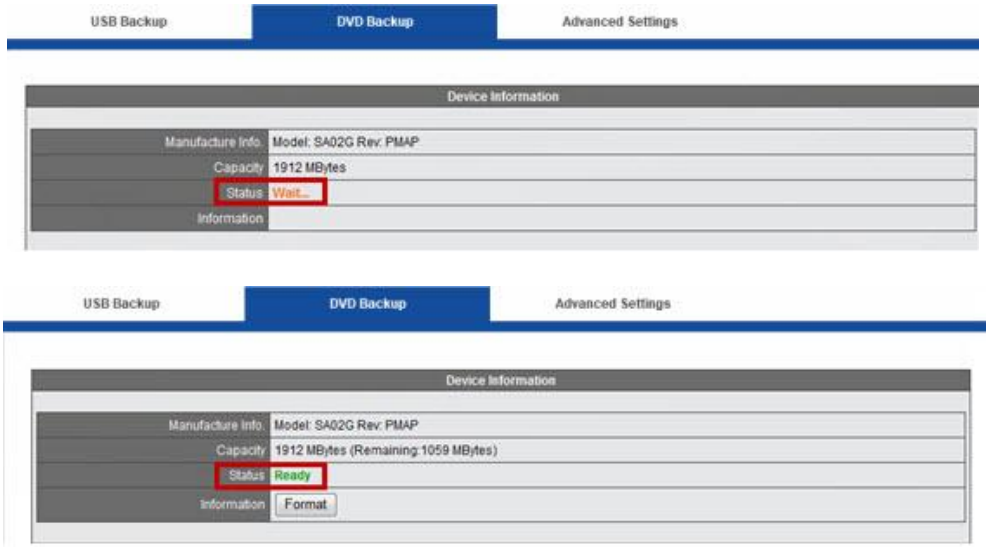


Note: DIGIPlayer and DIGICheck will be downloaded with video files.

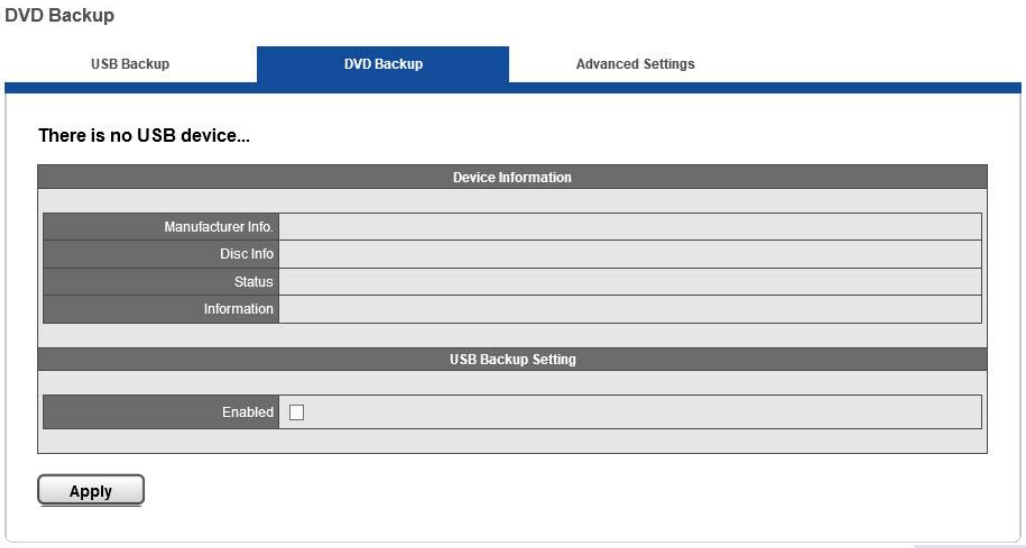
2. USB Type DVD Burner

When a USB type DVD burner is inserted to the 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.

Note: USB type DVD burner is supported in DS-4200 Pro Series and DS-8200-RM Pro Series.



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



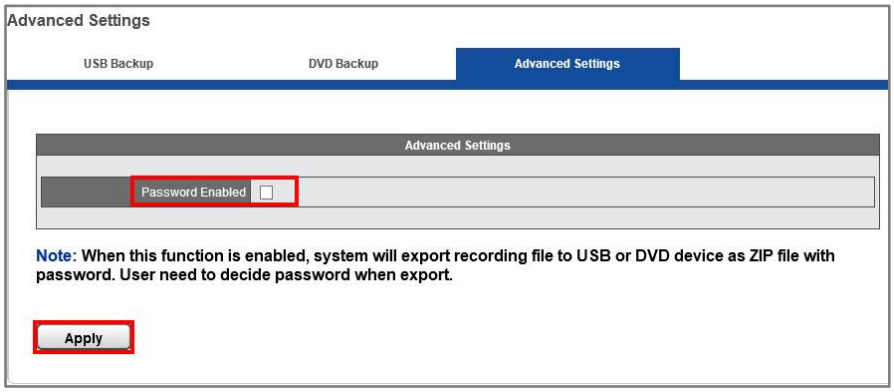
Note: DIGIPlayer and DIGICheck will be downloaded with video files.

3. Advance Settings

Encryption of Exported Files

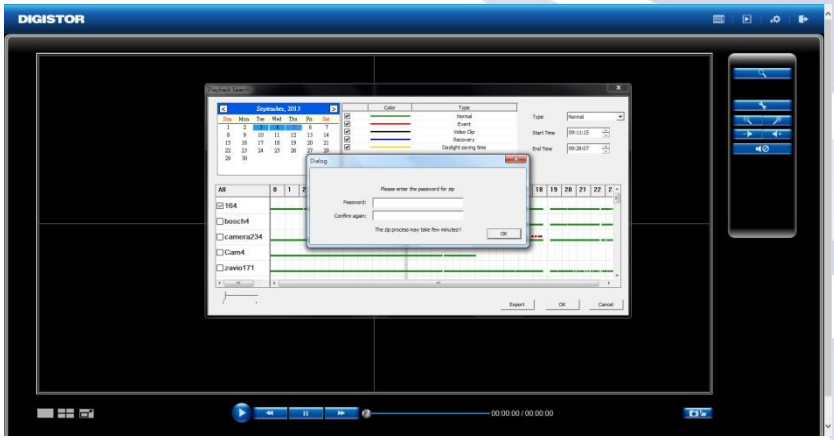
Users can encrypt exported files to USB or DVD device as ZIP files in remote playback. Users need to decide password when exporting files in remote playback.

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



Please choose camera and time period and then export files.

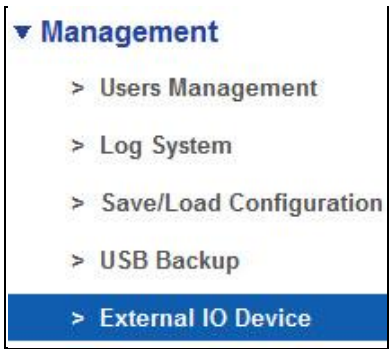
Please enter password for encryption.

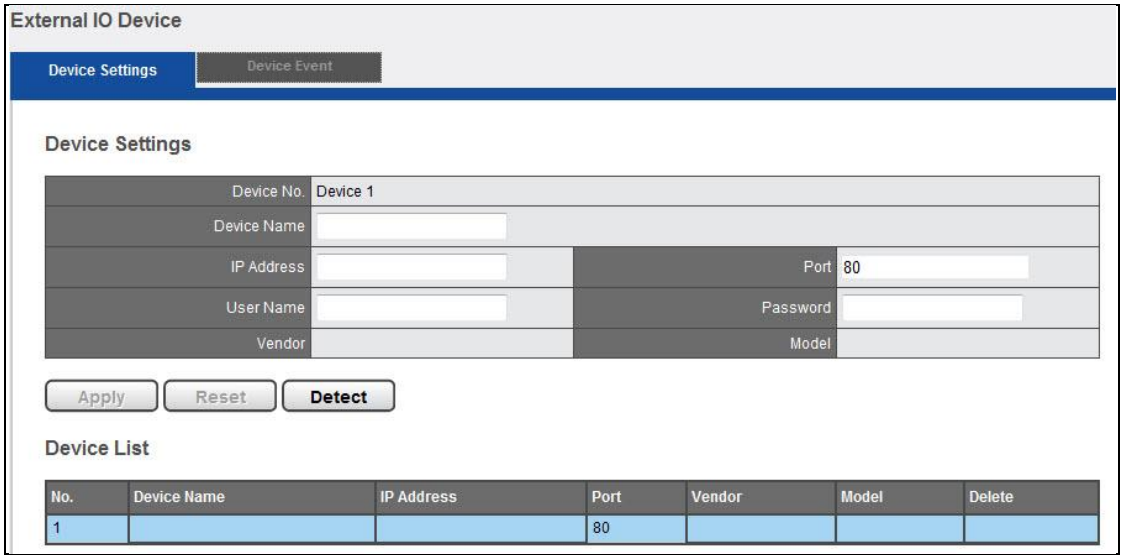


Note: Encryption of Exported Files is supported in DS-4200 Pro Series and DS-8200-RM Pro Series.

5.5.5 External IO Device

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





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.

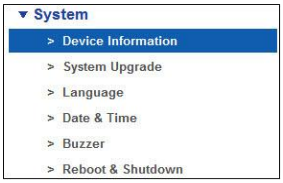
Camera List shows all available device information including: **Camera Name**, **IP Address**, **Port**, **Vender** and **Model**.

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

5.7 System

5.6.1 Device Information

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

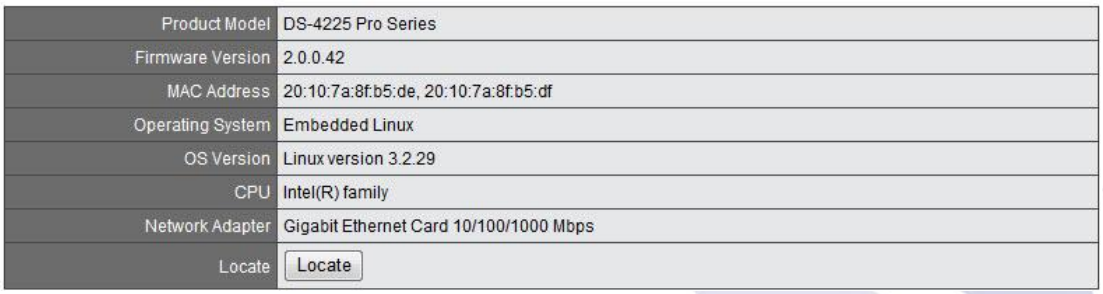


- **System Information**

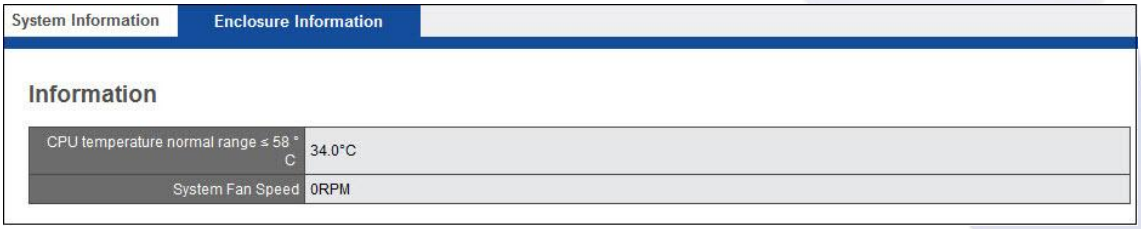
System Information shows **Operating System**, **OS Version**, **NVR Version**, **CPU**, **Network Adapter**, **MAC Address**, and **Network Flow**.

Locate

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



- **Enclosure Information**

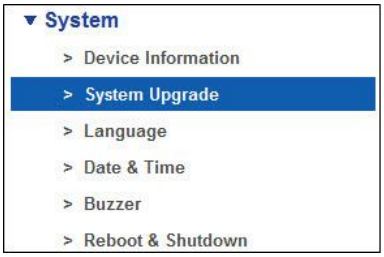


Enclosure Information shows **CPU Temperature** and **System Fan Speed**.

Note: Temperature of operation environment for NVR is 0~40˚C.

5.6.2 System Upgrade

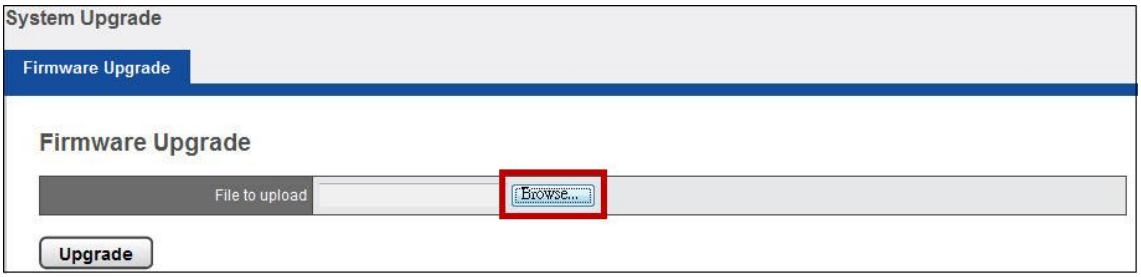
Please select "**System Upgrade**" from the drop-down menu of **System** to begin.



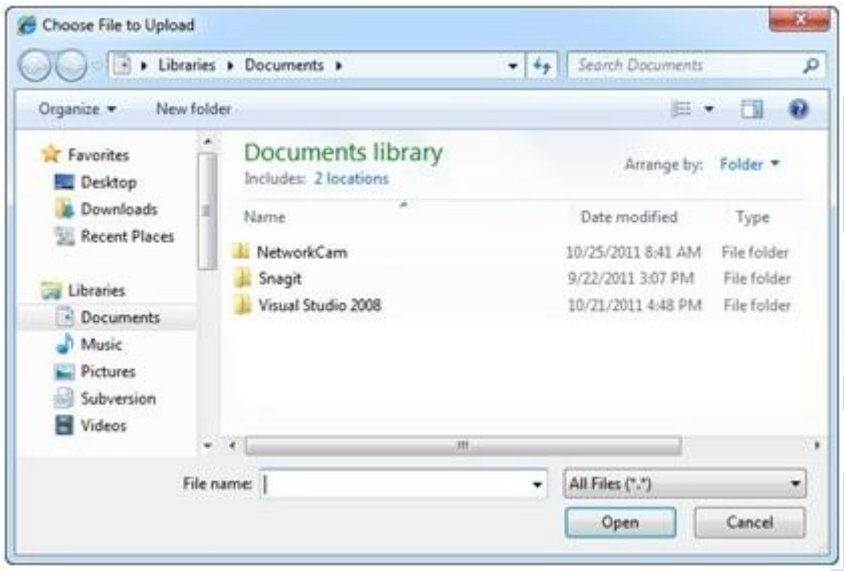
DIGIEVER offers new firmware for the DIGISTOR NVR to update functions. Please download the latest firmware from the DIGIEVER website www.digiever.com and save the firmware file to a local computer.

Note: Please make sure the NVR model and the firmware version are correct.

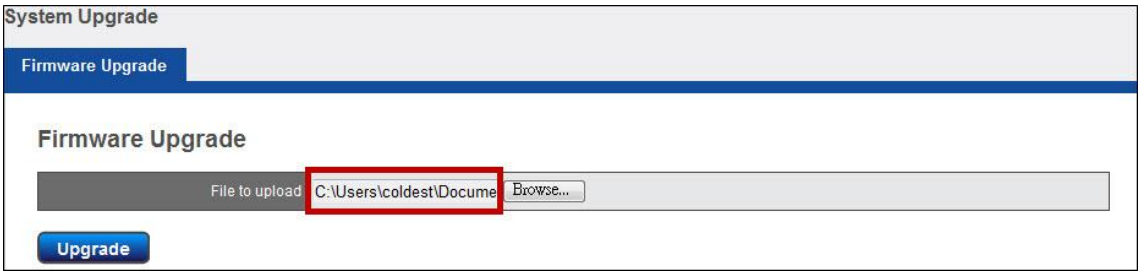
After downloading the firmware file, users can upgrade new firmware from a folder of local computer and browse the folder to upload it.



A window will pop up to ask for the folder to upload the firmware.

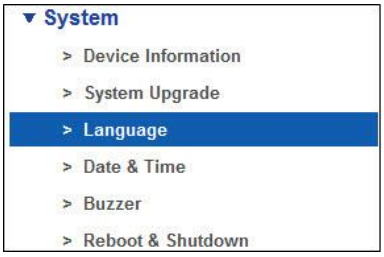


After selecting the file, please click "**Upgrade**" to renew the NVR.



5.6.3 Language

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

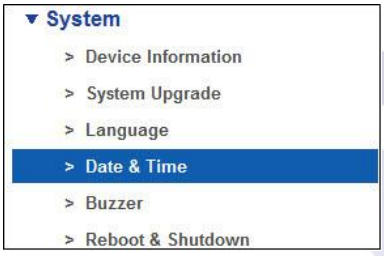


DIGISTOR NVR provides different languages for users. Users can configure the language as **AUTO** or other languages.

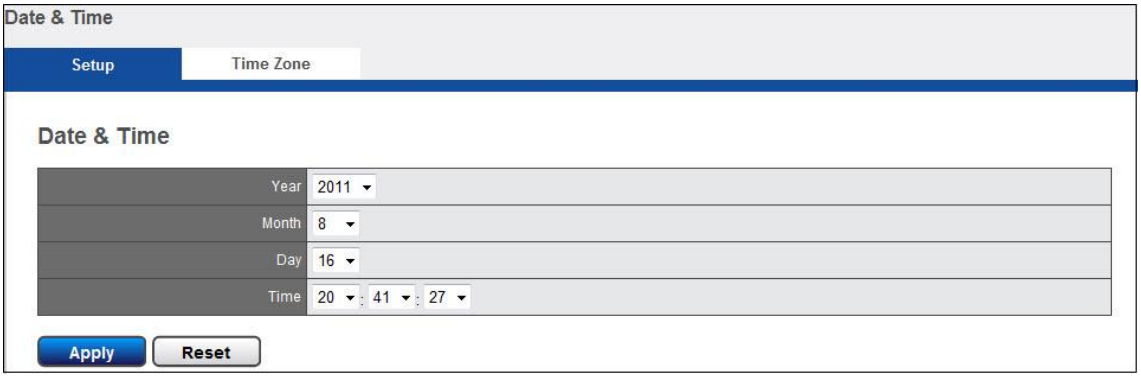
Please click "**Apply**" and the language will be changed.

5.6.4 Date &Time

Please select "**Date & Time**" from the drop-down menu of **System** to begin.

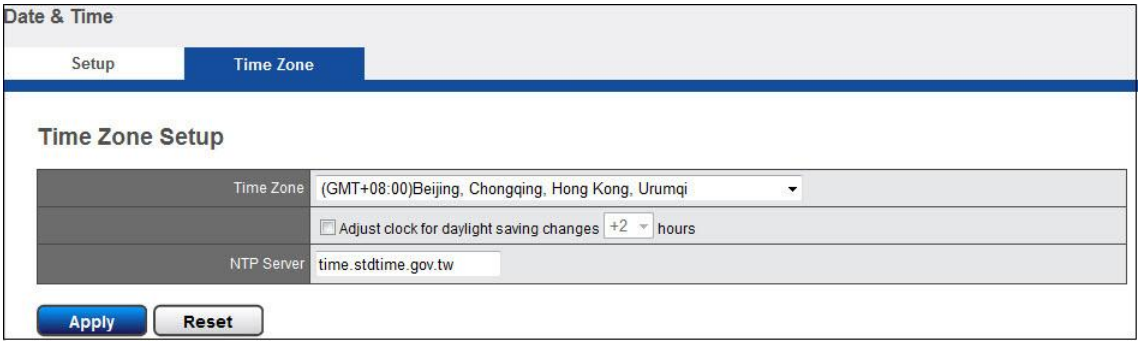


- **Set up**



Select from the drop-down list and configure the time manually and the setting will be effective when you click "**Apply**".

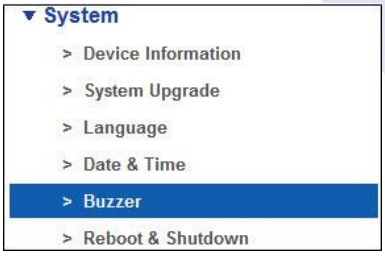
- **Time zone**

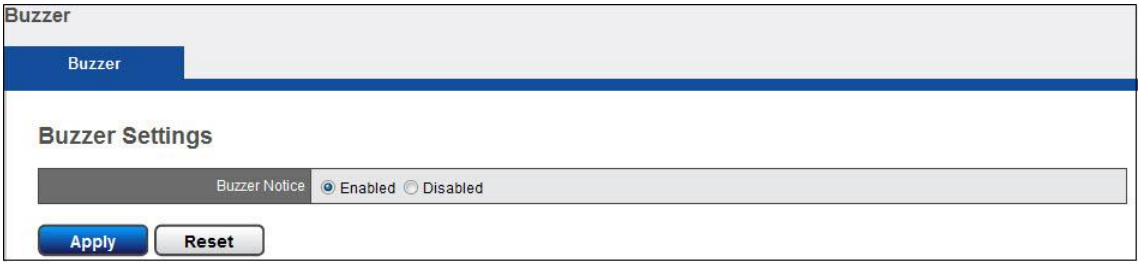


Set the time and date according to the correct time zone and adjust clock for daylight saving changes for your preference.
Enter the hostname of a valid NTP server.

5.6.5 Buzzer

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





Select “**Enable**” or “**Disable**” to set Buzzer Notice

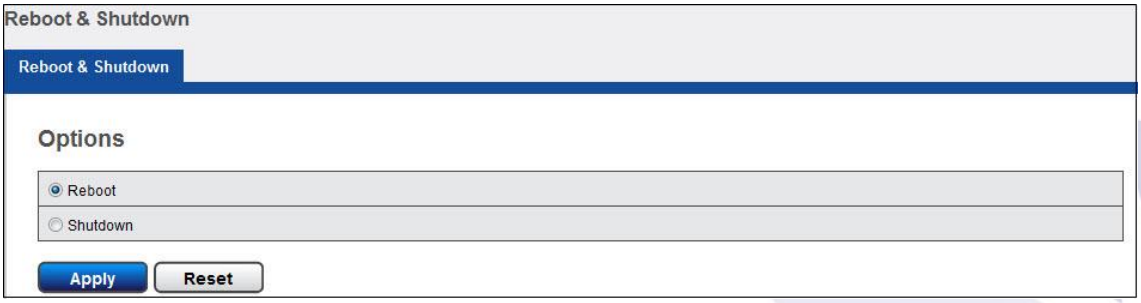
Once the buzzer notice is disabled, the buzzer action of digital output will not be performed.

Note: To stop the buzzer sound, user can press “**USB BACKUP**” button on the front panel of DIGISTOR NVR for one second.

Reboot & Shutdownnd.

5.6.6 Reboot & Shutdown

Please select “**Reboot & Shutdown**” from the drop-down menu of **System** to begin.



Click “**Reboot**” to restart the NVR.

Click “**Shutdown**” to turn off the NVR.