

4-CH Network Video Recorder

NVR-400

User's Manual

Version: 1.1

Date: April, 2009

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Revision

User's Manual for PLANET 4-CH Network Video Recorder

Model: NVR-400

Rev: 1.1

Part No.: EM-NVR400v1.1

PREFACE

Thank you for purchasing the Network Video Recorder, an IP based device that installed on your network, which can be managed remotely via the Internet or your LAN. Together with the Internet camera, the Network Video Recorder allows you to remote access and simultaneous record live video streams.

The Network Video Recorder is easy to install and use. Simply connect it to the router/switch within your network, and the device will automatically access to the connected camera(s) by default IP protocol.

This *User Guide* provides you with the instructions and illustrations on how to use your Network Video Recorder, which includes:

Chapter 1 Introduction to Your Device describes the components and features of the device.

Chapter 2 Hardware Installation helps you install the device according to your application environment.

Chapter 3 Accessing the Device lets you start using your device without problem. The device can be set up easily and work within your network environment instantly.

Chapter 4 Configuring the Device guides you through the configuration of the device using the Web browser on your PC.

Appendix Provides the specifications of the device.

NOTE

The illustrations and configuration values in this guide are for reference only. The actual settings depend on your practical application of the device.

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CHAPTER 1 INTRODUCTION TO YOUR DEVICE

1.1 Checking the Package Contents

Check the items contained in the package carefully. You should have the following:

- 1 x NVR-400
- 1 x Power Cord
- 1 x Power Adapter
- 1 x RJ-45 Cable
- 4 x Rubber Pad
- 4 x Screw
- 1 x User's Manual CD-ROM
- 1 x Quick Installation Guide

NOTE

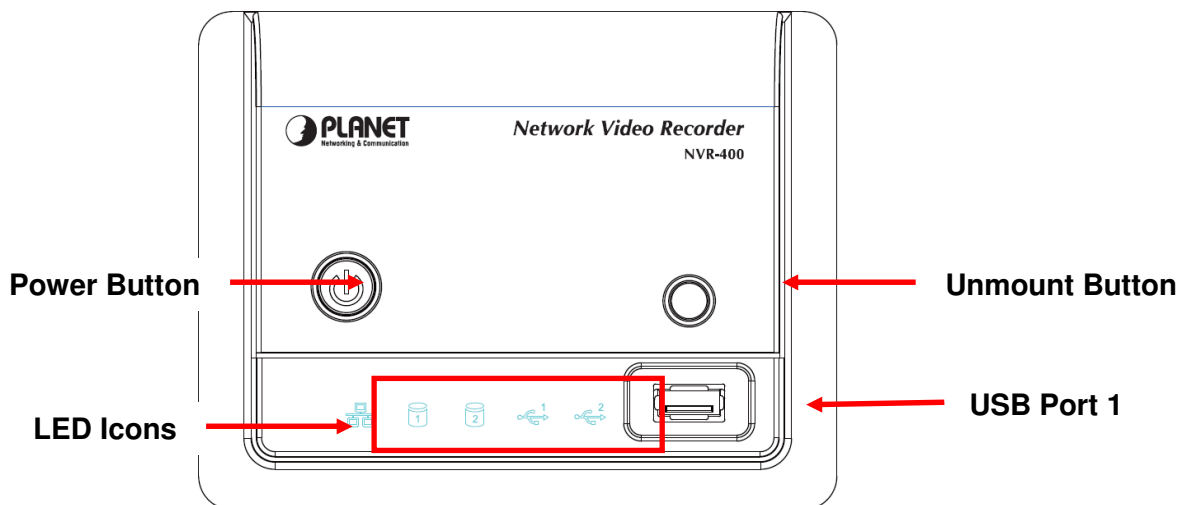
Once any item contained is damaged or missing, contact the authorized dealer of your locale.



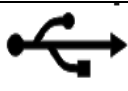
1.2 Features and Benefits

- Simultaneous Record and Live Video Streams
- 4 IP Cameras Manual or Schedule Recording
- Web-based Administration for Easy Configuration
- Provides FTP, UPnP Media, iTunes Server
- 2 USB Ports for External Backup and Printer
- Supports RAID 0, 1 and JBOD
- Equips with Gigabit Ethernet Port
- Provides Multiple Languages
- Firmware Upgradable

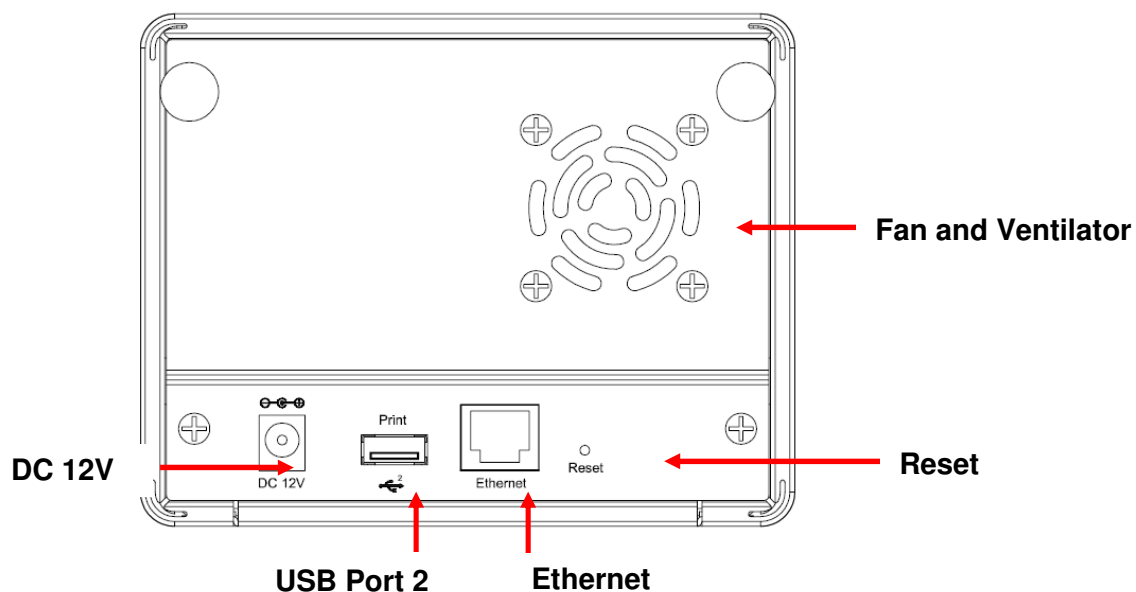
1.3 Getting to Know Your Device

■ Front Panel



Item	Description
Power Button	Press to turn on the device. Press and hold for about five seconds to turn off. When you press the button to boot, the button start blinking Blue, and then becomes a steady Blue when the device is ready.
Unmount Button	Press to safely remove the connected USB device on the USB Port 1.
USB Port 1	Connect the external USB backup device.
LED Icons	The LED icons on the front panel let you know the related status of your device. See the following table for more information of the LED icons.
Icon	Description
	A steady Green (1000 Mbps) or Amber (10/100 Mbps) light indicates the device is connected to your LAN. When it blinks, the device is receiving/ transmitting data from/to the network.
 1 / 2	A steady Green light indicates the hard disk drive is installed in the device. A blinking Green light indicates the installed hard disk drive is reading/writing data. A steady Amber light indicates the hard disk drive is complete full (100%). A blinking Amber light indicates the hard disk drive is getting full (95%).
 1 / 2	The LED off indicates no USB devices is connected to the device. When you connect the USB device to the device, the LED becomes a steady Green light. When it blinks, the device is receiving/ transmitting data from/to the USB device.

■ Rear Panel

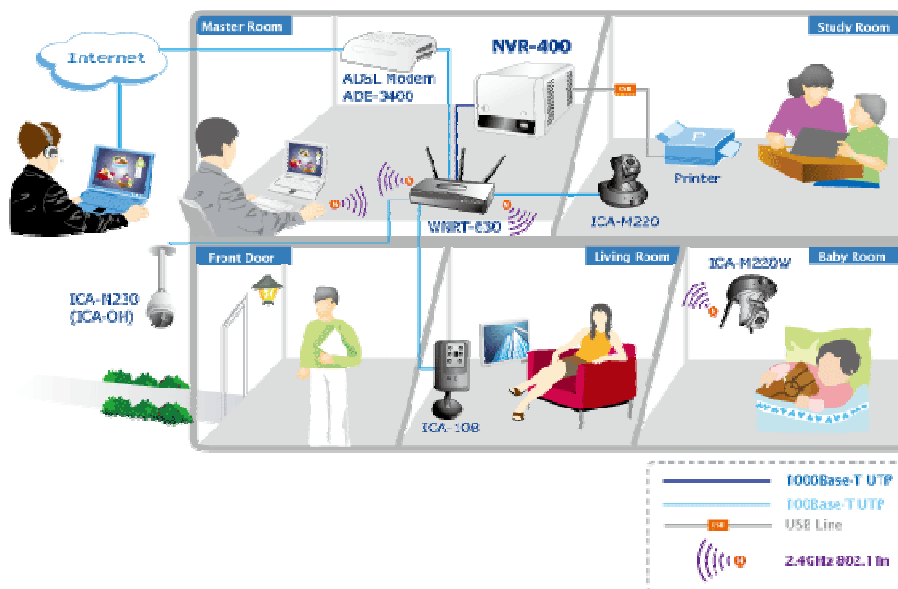


Item	Description
DC 12V	Plug the provided AC Power Adapter.
USB Port 2	Connect the USB printer (non-GDI interface).
Ethernet	Plug the provided Ethernet Cable to connect to your LAN.
Reset	Press to reset the device. Press and hold for about five seconds to resume the factory default configuration.
Fan and Ventilator	Do not block or cover the ventilator for air circulation.

CHAPTER 2 HARDWARE INSTALLATION

2.1 Networking Application

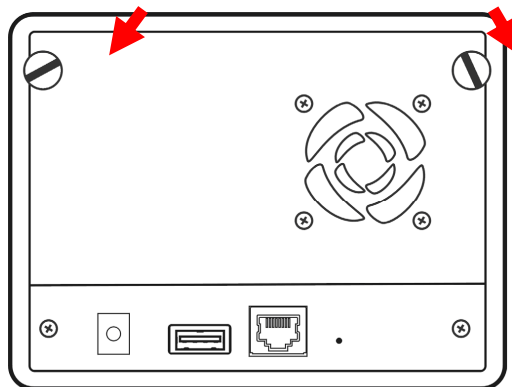
The following diagram explains the application of the Network Video Recorder within your network. In the illustration below, the Network Video Recorder and four Internet cameras are connected to a router/ switch, which minimize the impact of the network traffic for the users within the network.



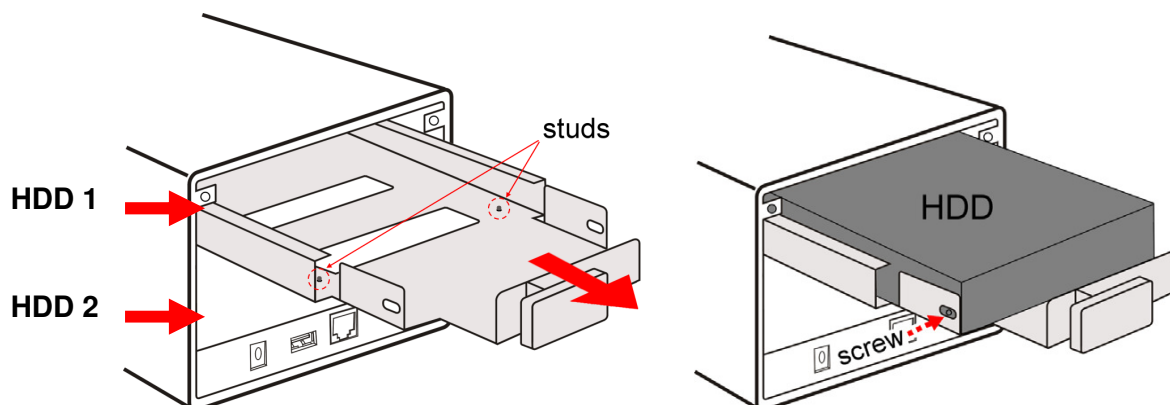
Network Video Recorder in your networking environment

2.2 Installing the Hard Disk Drive

1. Disconnect the power cable of the device.
2. Remove two screws on the rear panel, and then remove the rear panel.



3. Pull the disk tray out until it jammed in the rack.
4. Place the hard disk drive on the tray, and then secured the screws on both side.



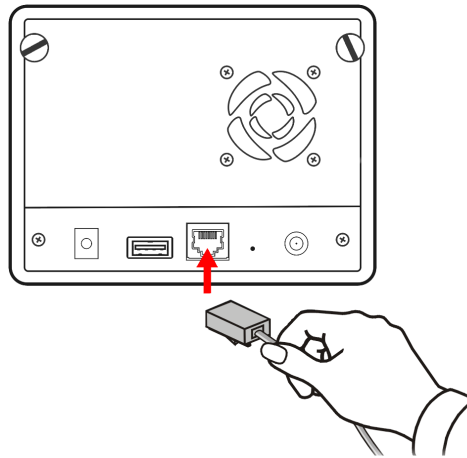
NOTE

While placing the hard disk drive onto the tray, align the screw holes on the bottom of hard disk drive with the studs on the base of tray. The two studs are designed to ensure the hard disk drive will be installed on the bracket securely.

5. Push the tray into the disk bay all the way until it connects the device.
6. Replace the rear panel and secure two screws.

2.3 Connecting the Network

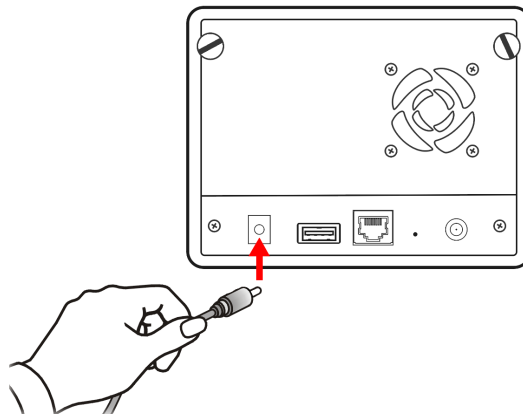
Plug an Ethernet cable to the LAN connector located on the device's rear panel, and then connect it to the network or directly to a computer for configuration.



Connecting the LAN cable

2.4 Connecting the Power Adapter

Plug the AC power adapter to the power connector located on the device's rear panel, and then connect it to your local power supply.



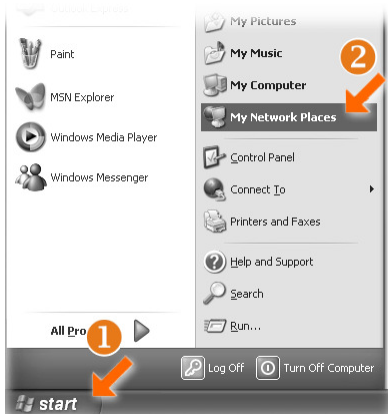
Connecting the power cable

CHAPTER 3 ACCESSING THE DEVICE

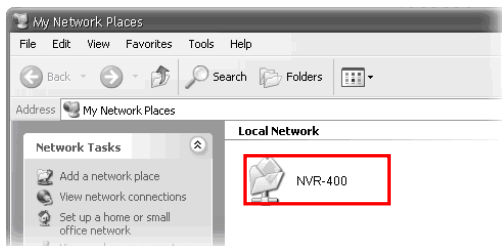
3.1 Accessing the device via My Network Places

Since you have built a connection between the Network Video Recorder and your PC, you can easily access the device via My Network Places.

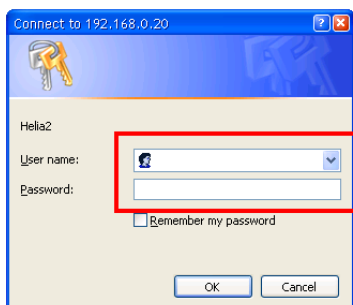
1. On your PC, click **Start > My Network Places**.



2. Find the device with its device named (such as *NVR-400*) in My Network Place.



3. Double-click the device icon. When the login window appears, enter the User name (the default is *admin*) and password (the default is *admin*), and then click **OK** to access the Network Video Recorder.



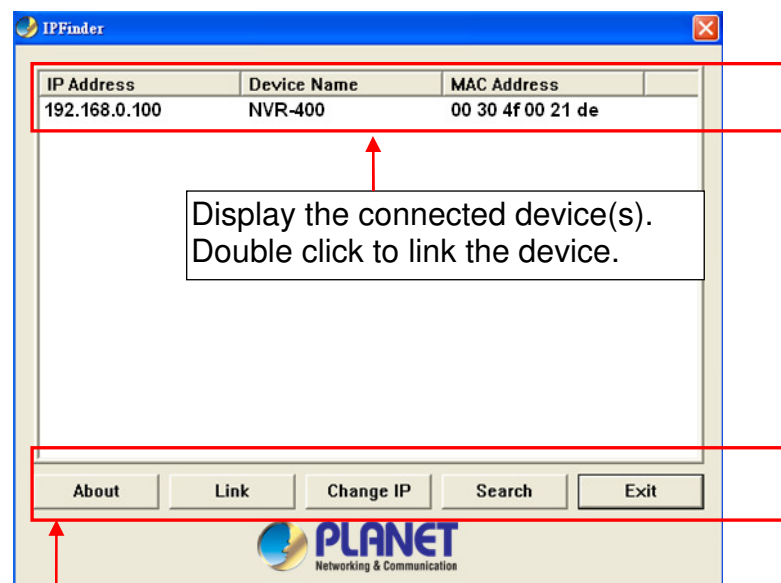
TIP

If you connect an USB device to the Network Video Recorder, it will be shown in the window.

3.2 Using IPFinder

The device comes with a conveniently utility, IPFinder, which is included in the Installation CD-ROM, allowing you to search the device on your network easily.

1. Insert the bundled CD-ROM into your computer's CD-ROM Drive to initiate the Auto-Run program.
2. Click the **IPFinder** item to launch the utility. The control panel will appear as below.



Click **About** to get the Version information of IPFinder.
Click **Link** to connect the selected device.
Click **Change IP** to modify the IP address of the selected device.
Click **Search** to find the IP address of the connected device(s).
Click **Exit** to close the utility.

3. Once you get the IP address of the device, launch the Web browser to access your device.

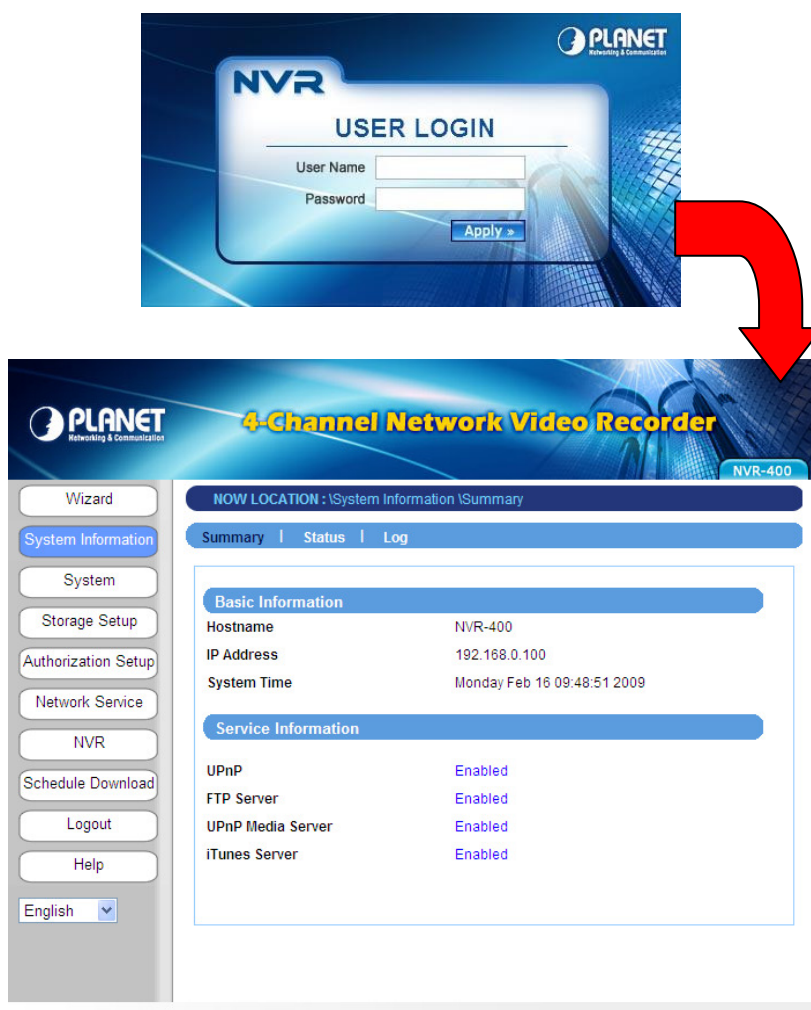
CHAPTER 4 CONFIGURING THE DEVICE

You can easily access and manage the Network Video Recorder via the Web browser of your PC. This chapter describes the Web Configuration Utility, and guides you through the configuration of the device.

Since the default configuration of the device is DHCP mode enabled, you are recommended to use IPFinder to search the IP address that is assigned to the device by the DHCP server, and then click **Link** to access the camera via the Web browser.

Login the Homepage

The Web management allows you to access and manage the Network Video Recorder easily. Launch the Web browser and then enter the IP address. The default IP address is **192.168.0.100**. And, fill the User Name and Password to login the Web management. The default User Name / Password is **admin / admin**.



Web Configuration Utility of the device

4.1 Using the Setup Wizard

The device's Setup Wizard lets you configure your device easily and quickly. The wizard will guide you through the necessary settings step-by-step.

To start the wizard, click **Setup Wizard** in the menu bar.

Step 1. LAN Setup

NOW LOCATION : Wizard \ LAN Setup

Step 1 » Step 2 » Step 3 » Step 4 » Step 5

LAN Setup

Hostname

☐ Start UPnP

☐ Use proxy IP Port

Next »

- Enter the **Hostname** for the device.
- Select **Start UPnP** to enable the device's Universal Plug and Play function.
- If your network uses a proxy server, select **Use proxy** and enter the **IP/Port** values.

Step 2. TCP/IP Setup

NOW LOCATION : Wizard \ TCP/IP Setup

Step 1 » Step 2 » Step 3 » Step 4 » Step 5

TCP/IP Setup

☐ DHCP

☒ Static IP

IP Address	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="0"/>	<input type="text" value="100"/>
SubnetMask	<input type="text" value="255"/>	<input type="text" value="255"/>	<input type="text" value="255"/>	<input type="text" value="0"/>
Gateway	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="0"/>	<input type="text" value="254"/>
DNS1	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="200"/>	<input type="text" value="3"/>
DNS2	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Link Status -

Speed: 1000Mb/s , Duplex : Full , MTU : 1500

« Back Next »

- Select **DHCP** when your network uses the DHCP server; or select **Static IP** to assign the IP address for the device directly.

For more information of TCP/IP settings, refer to the Lan section in Web Configuration Utility.

Step 3. Set up Space Type

NOW LOCATION : Wizard \ Storage Setup

Step 1 » Step 2 » **Step 3** » Step 4 » Step 5

Space Type

☒ Single Disk

« Back | Next »

- Select **Single Disk** or **RAID** for storing the files.

For more information of space type, refer to the section 4.2.3 Storage Setup in Web Configuration Utility.

Step 4. Setup Summary

NOW LOCATION : Wizard \ Summary

Step 1 » Step 2 » Step 3 » **Step 4** » Step 5

Setup Summary

Hostname	NVR-400
UPNP	Disable
Proxy	None
<hr/>	
DHCP	Disable
IP	192.168.0.100
Subnet Mask	255.255.255.0
Gateway	192.168.0.254
DNS1	192.168.200.3
DNS2	0.0.0.0
<hr/>	
Space Type	Single Disk

« Back | Apply »

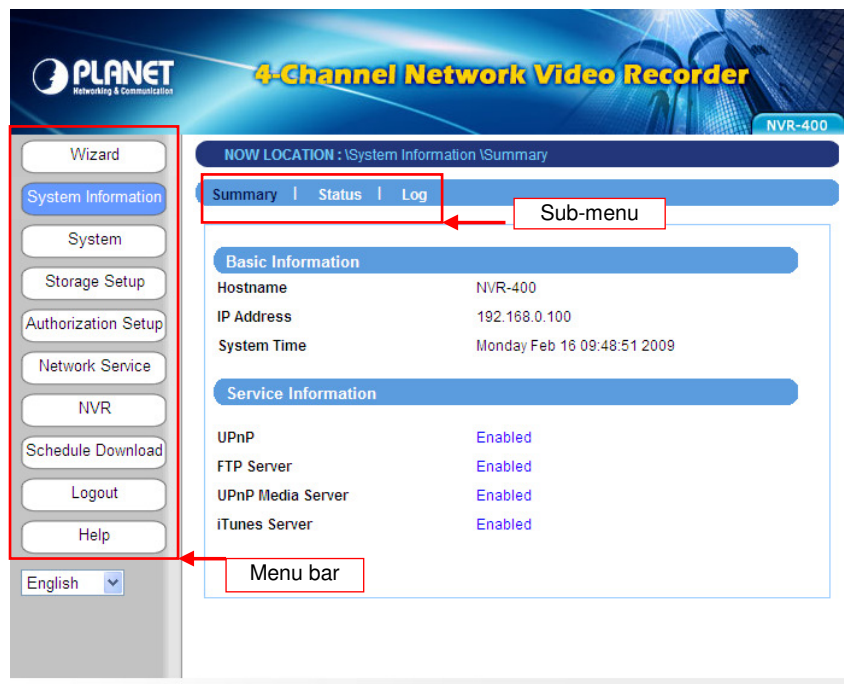
- Display the configuration of the device.

When you complete the Setup Wizard, click **Apply** to reboot the device. Otherwise, click **Back** to go back to the previous step(s) and change the settings.

4.2 Using the Web Configuration Utility

After completing the Setup Wizard and rebooting the device, you can start to use the Network Video Recorder within your network environment. However, you can configure the advanced settings through the Web Configuration Utility.

The utility contains the following options in the menu bar: **System Information**, **System**, **Storage Setup**, **Authorization Setup**, **Network Service**, **NVR**, **Schedule Download**, **Logout**, and **Help**. Each option provides several related settings in the sub-menu area. Click the desired option from the menu bar and then select the related setting to set up.



4.2.1 System Information

The System Information menu displays the current configuration and events log of the device.

■ Summary

Summary | Status | Log

Basic Information

HostnameNVR-400
IP Address192.168.0.100
System TimeTuesday Feb 10 16:31:45 2009

Service Information

UPnPDisabled
FTP ServerDisabled
UPnP Media ServerDisabled
iTunes ServerDisabled

This sub-menu displays the hostname and IP address of the device, the date and time, and the network service that you have set up.

■ Status

Summary | Status | Log

System Information

Firmware Version2.0.4 build 7

Network Information

MAC Address00-30-4F-11-11-11
IP Address192.168.0.100
Subnet Mask255.255.255.0
Gateway192.168.0.254
DNS1192.168.200.3
DNS2

Time Information

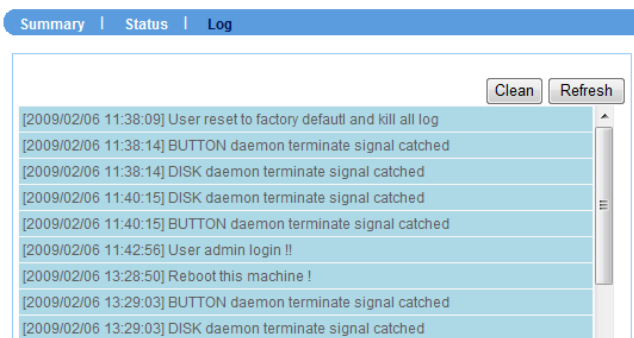
NTP Server
Time ZoneTaipei

Disk Information

Disk	Model	Temperature	Capacity	Status	Space
Disk 1	Hitachi HCS721616PLA380	51 °C / 149.4 °F	164.6GB	Normal	

This sub-menu displays the firmware version of the device, the networking information, the time zone, and the disk information.

■ Log



This sub-menu displays the events log recorded by the system.

4.2.2 System

PLANET
Networking & Communication

4-Channel Network Video Recorder

NVR-400

NOW LOCATION : \System \ LAN

Lan | Time | Notification | Configuration | Firmware

LAN Setup

Hostname: NVR-400

☒ Start UPnP

☐ Use proxy IP: Port:

TCP/IP Setup

☐ DHCP

☒ Static IP

IP Address: 192, 168, 0, 100

SubnetMask: 255, 255, 255, 0

Gateway: 192, 168, 0, 253

DNS1: 168, 95, 1, 1

DNS2: 0, 0, 0, 0

Link Status

Speed: 100Mb/s, Duplex: Full, MTU: 1500

Apply »

The System menu contains the basic system settings for the device, such as the networking settings, time and date setup, etc.

■ Lan

Lan | Time | Notification | Configuration | Firmware

LAN Setup

Hostname: NVR-400

☐ Start UPnP

☐ Use proxy IP: Port:

TCP/IP Setup

☐ DHCP

☒ Static IP

IP Address: 192, 168, 0, 100

SubnetMask: 255, 255, 255, 0

Gateway: 192, 168, 0, 254

DNS1: 192, 168, 200, 3

DNS2: , , ,

Link Status

Speed: 1000Mb/s, Duplex: Full, MTU: 1500

Apply »

● LAN Setup

- **Hostname:** Enter a descriptive name for the device.
- **Start UPnP:** The device supports UPnP (Universal Plug and Play), which is a set of computer network protocols that enable the device-to-device interoperability. In addition, it supports port auto mapping function so that you can access the device if it is behind an NAT router or firewall. Select the **Enable** option to enable this feature.
- **Use proxy:** If your network uses a proxy server, select the **Use proxy** option and then enter the **IP/Port** values.

● TCP/IP Setup

- **DHCP:** Select this option when your network uses the DHCP server. When the device starts up, it will be assigned an IP address from the DHCP server automatically.
- **Static IP:** Select this option to assign the IP address for the device manually. You can use IPFinder to obtain the related setting values.

IP Address	Enter the IP address of the device. The default setting is: <i>192.168.0.100</i> .
Subnet Mask	Enter the Subnet Mask of the device. The default setting is: <i>255.255.255.0</i> .
Gateway	Enter the default Gateway of the device. The default setting is: <i>192.168.0.254</i> .
DNS 1/2	DNS (Domain Name System) translates domain names into IP addresses. Enter the Primary DNS and Secondary DNS that are provided by ISP.

● Link Status

Display the connection status of the device.

■ Time

[Lan](#) | [Time](#) | [Notification](#) | [Configuration](#) | [Firmware](#)

Time Setup

Time 16 : 57 : 22 Date 2009 / 02 / 10

Time Zone
(GMT+08:00) Taipei

☐ NTP Setup
NTP Server

☒ Manual Setup
Year 2009 Month 02 Day 10
Hour 16 Minute 57 Second 22

- **Time Zone**

Select the proper time zone for the region from the pull-down menu.

- **NTP Setup**

Select this option and the time will be synchronized with the NTP Server. When you select this option, you have to enter the IP address of the NTP server.

- **Manual Setup**

Select this option to set the date and time manually.

- **Get time from my computer**

Click the button and the date & time settings of the device will be synchronized with the connected computer.

Once you complete the time and date setup, click **Apply**.

■ Notification

The screenshot shows a web-based configuration interface for a device. At the top, there is a navigation bar with tabs: 'Lan', 'Time', 'Notification' (which is selected), 'Configuration', and 'Firmware'. Below the navigation bar is the 'Notification Setup' section. It contains several input fields: 'SMTP Server', 'Authorization' (a checkbox), 'User ID', 'Password', 'Confirm Password', 'Sender E-mail', 'Primary E-mail', and 'Secondary E-mail'. There are also two buttons: 'Test mail' and 'Apply >'. The 'Test mail' button is located below the 'Secondary E-mail' field, and the 'Apply >' button is at the bottom right of the form.

This sub-menu contains the required settings for e-mail notification feature. When you complete the settings, click **Send a test mail** to test the related configuration is correct or not. Once the device connects to the server successfully, click **Apply**.

- **SMTP Server**

Enter the mail server (e.g. *mymail.com*) in the box. Then, select the **Authorization** check box and complete the following settings:

- **User ID:** Enter the user name to login the mail server.
- **Password:** Enter the password to login the mail server.
- **Confirm Password:** Enter the password again for confirmation.

- **Sender E-mail**

Enter the email address of the user (e.g. *john@mymail.com*) who will send the email.

- **Primary/Secondary E-mail**

Enter the first and second email address of the user who will receive the email.

■ Configuration

The screenshot shows the 'Configuration Setup' page. At the top is a navigation bar with links: Lan, Time, Notification, Configuration (selected), and Firmware. Below the navigation bar is a header 'Configuration Setup'. The main content area contains several radio button options: 'Delete all files', 'Format all disks and reset default' (with a sub-option 'Keep log file' checked), 'Backup Config file' (selected), and 'Restore Config file'. Below the 'Restore Config file' option is a text input field and a 'Browse...' button. At the bottom right of the main content area is an 'Apply »' button.

- **Delete all files**

Select this option and click **Apply** to delete all files stored on the installed hard disk drives.

- **Format all disks and reset default**

Select this option and click **Apply** to format the installed hard disk drives and reset the device to the default configuration. Select the **Keep log file** check box to save the log file when reset.

- **Backup Config file**

Select this option and click **Apply** to save the current customized configuration of the device as a file on your PC.

- **Restore Config file**

Click **Browse** to find the configuration file, and then click **Apply** to restore the customized configuration.

NOTE

Please remember to reboot your device when you clicked **Apply** button.

■ Firmware

The screenshot shows the 'Firmware Update' page. At the top is a navigation bar with links: Lan, Time, Notification, Configuration, and Firmware (selected). Below the navigation bar is a header 'Firmware Update'. The main content area displays the current 'Firmware Version' as '2.0.4 build 7' and the 'Release Date' as '2008 / 9 / 23'. At the bottom, there is a 'Firmware File' text input field, a 'Browse...' button, and an 'Update' button.

This sub-menu displays the firmware version of the device. In addition, you can upgrade the firmware once you have a latest version of firmware. When you are upgrading the firmware, make sure that the device is connected to the power source during the process. Otherwise, the device might be damaged because of failure of upgrading firmware.

- **Firmware file**

Click **Browse** to find the firmware file and click **Update**.

4.2.3 Storage Setup

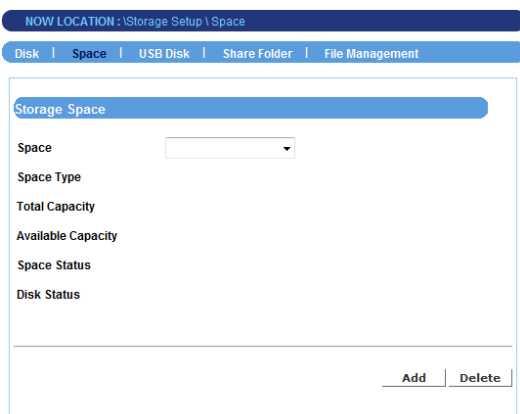


The Storage Setup menu provides the information and controls of the installed hard disk drives, including the USB device.

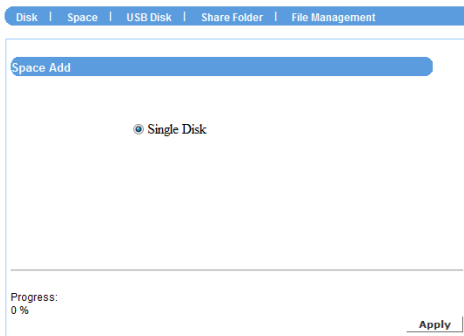
NOTE

You are not recommended to use the USB device as your major storage device.

■ Space



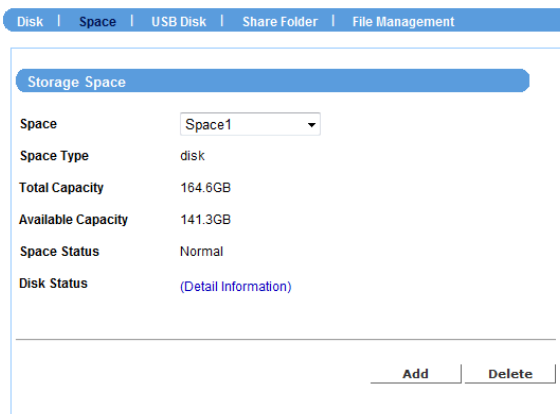
Click **Add** to configure the storage space on the installed hard disk drives: selecting **Single Disk** or **RAID**. Then, click **Apply** to start making file system.



If you have two hard disks installed in the device, you can select a disk configuration for RAID:

RAID 0	(not recommended) Provide data striping.
RAID 1	(recommended) Provide mirroring over both disks.
JBOD	(maximum data storage space) Combine both drives in a linear fashion to create one volume.

When completed, the related information of the disks is displayed on the screen.

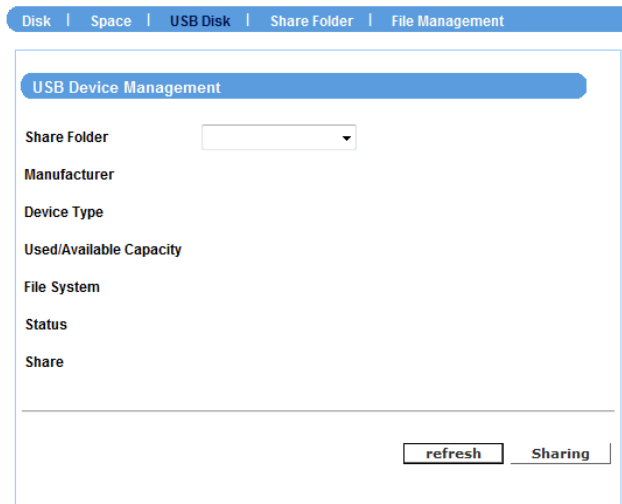


Click **Add** to add a storage space, or click **Delete** to remove the current storage space.

NOTE

Please remember to reboot your device when you clicked **Apply** button.

■ USB Disk



The screenshot shows the 'USB Device Management' sub-menu. At the top is a navigation bar with 'Disk', 'Space', 'USB Disk', 'Share Folder', and 'File Management'. Below this is a blue header for 'USB Device Management'. The main area contains labels for 'Share Folder' (with a dropdown), 'Manufacturer', 'Device Type', 'Used/Available Capacity', 'File System', 'Status', and 'Share'. At the bottom right are 'refresh' and 'Sharing' buttons.

If you connect an external USB disk, this sub-menu displays the information of the USB disk.

To safely remove the connected USB device, click **unmount** from this sub-menu. (The other way is pressing the Unmount button on the front panel of the device for disconnecting the USB Port 1.)

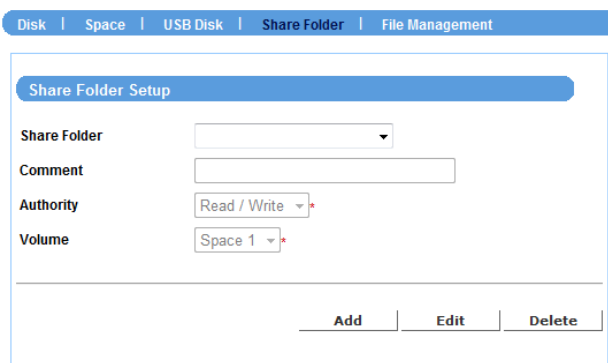
To reload the information of the connected USB devices, click **refresh**.

Click **format** to format the connected USB disk.

NOTE

Please remember to reboot your device when you clicked “apply” button.

■ Share Folder



The screenshot shows the 'Share Folder Setup' sub-menu. At the top is a navigation bar with 'Disk', 'Space', 'USB Disk', 'Share Folder', and 'File Management'. Below this is a blue header for 'Share Folder Setup'. The main area contains labels for 'Share Folder' (with a dropdown), 'Comment' (with a text input), 'Authority' (with a dropdown showing 'Read / Write'), and 'Volume' (with a dropdown showing 'Space 1'). At the bottom right are 'Add', 'Edit', and 'Delete' buttons.

This sub-menu allows you to specify the shared folder of the disks. Click **Add** and then assign the destination folder from the **Share Folder** list and give a brief instruction in the **Comment** box.

The **Authority** option allows the administrator to limit the usage of the shared folder. Select the authority type (Read/Write or Read Only) from the list to meet your need.

Finally, assign the storage location from the **Volume** list.

When completed, click **Apply** to add the folder that you assigned. You can then use the File Explorer on your PC to check the folder that will be displayed as the directory under the device name.

To change the setting, select the folder from the **Share folder** list and then click **Edit**. To remove, select it and then click **Delete**.

NOTE

Please remember to reboot your device when you clicked **Apply** button.

■ File Management

The screenshot shows a web interface for File Management. At the top is a blue breadcrumb trail: Disk | Space | USB Disk | Share Folder | File Management. Below this is a white box containing the following elements:

- Path: /volume1
- Back button
- /Volume1 dropdown menu
- Table header with columns: Filename, Size, Last Modify time, Authorization, and a checkbox icon.
- A large empty space for file listing.
- Delete button

This sub-menu displays the log of file system that you have made in the device.

4.2.4 Authorization Setup

Planet 4-Channel Network Video Recorder NVR-400

NOW LOCATION : Authorization \ User

User | Group | Authorization

User Setup

Select User: admin

User Description: admin

Password: [masked]

Confirm Password: [masked]

Permission: Admin

Space Status

Space	Used Capacity	Quota
1	0 MB	Limit 0 MB

Add Edit Delete

The Authorization Setup menu allows you to manage the users and groups of the device.

■ User

User | Group | Authorization

User Setup

Select User: admin

User Description: admin

Password: [masked]

Confirm Password: [masked]

Permission: Admin

Space Status

Space	Used Capacity	Quota
1	0 MB	Limit 0 MB

Add Edit Delete

Click **Add** and then assign the user name in the **Select User** box, and give a brief instruction in the **User Description** box.

If you have set up groups for organization, you can assign the user to a group from the **Group** list.

Enter the password twice for the new user in the **Password** and **Confirm Password** boxes, and then select the **Permission** type (Admin or User).

Specify the storage quotas for the user from the **Quota** option of **Space Status**.

When completed, click **Apply** to add the user. You can change the user's setting by selecting the user and then clicking **Edit**, or remove the user by selecting the user and then clicking **Delete**.

NOTE

Please remember to reboot your device when you clicked **Apply** button.

■ Group

The screenshot shows the 'Group Setup' interface. At the top, there is a navigation bar with 'User', 'Group', and 'Authorization' tabs. Below the navigation bar, the 'Group Setup' section has a 'Select Group' dropdown menu with 'nvr' selected. Below this is a 'Member' list with 'admin' listed. An 'Edit Member' button is located below the member list. At the bottom right, there are 'Add' and 'Delete' buttons.

Click **Add** and then assign the group name in the **Group Name** box, and then you can add/remove users for the group from the **Member** option.

The screenshot shows the 'Group Edit' interface. At the top, there is a navigation bar with 'User', 'Group', and 'Authorization' tabs. Below the navigation bar, the 'Group Edit' section has a 'Group Name' text box with 'nvr' entered. Below this is a 'Member' section with two columns: 'User' and 'Group Member'. The 'Group Member' column has 'admin' listed. Between the columns are 'Add >>' and '<< Remove' buttons. At the bottom right, there is an 'Apply >>' button.

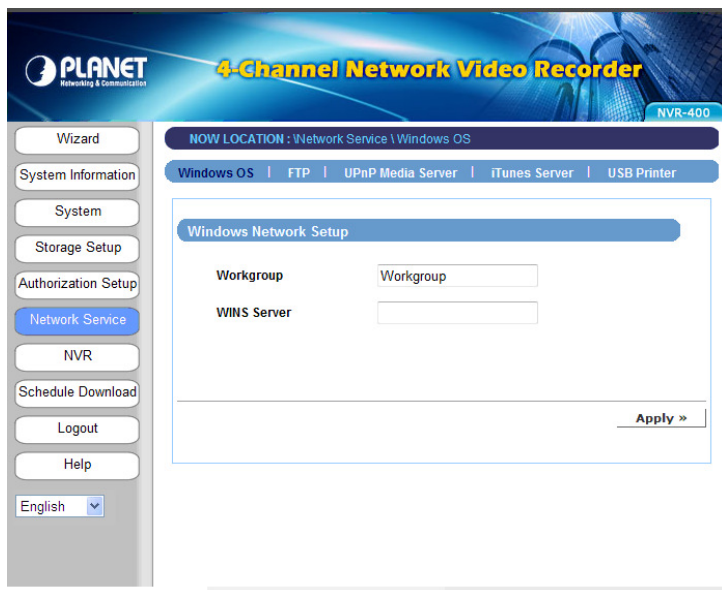
When completed, click **Apply** to add the group. To organize the users for the group, click **Edit Member**. To remove the group, select it from the list and then click **Delete**.

■ Authorization

The screenshot shows the 'Authorization Setup' interface. At the top, there is a navigation bar with 'User', 'Group', and 'Authorization' tabs. Below the navigation bar, the 'Authorization Setup' section has a 'Select Share Folder' dropdown menu with 'No Share Folder' selected. Below this are four columns: 'User/Group', 'Deny', 'Read/Write', and 'Read Only'. Each column has a large empty box for input. At the bottom right, there is an 'Apply >>' button.

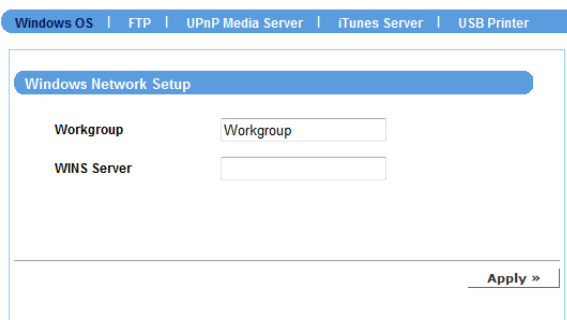
This sub-menu displays the assigned access rules and quotas of the users and groups.

4.2.5 Network Service



The Network Service menu allows you to set up the network services for the device, such as FTP server, UPnP media server, etc.

■ Windows OS



● Windows Network Setup

- **Workgroup:** Enter the workgroup name where the device is installed within your network.
- **WINS Server:** WINS (Windows Internet Name Service) server is used to support NetBIOS over TCP/IP (NetBT). Enter the IP address of the WINS server in the box, otherwise you cannot connect to a remote network resource by using its NetBIOS name.

■ FTP

Windows OS | FTP | UPnP Media Server | iTunes Server | USB Printer

FTP Service

☐ Start FTP Service Status: Disabled

FTP Port

☐ Use transmission limitation

Maximum Upload speed per client KB/s (0 is unlimited)

Maximum Download speed per client KB/s (0 is unlimited)

Apply »

This sub-menu contains the options that allow you to enable/disable the FTP service of the device.

- **Start FTP Service**

Select this option to enable the FTP server of the device. Once you start the FTP service, you should assign the **FTP Port** (the default is port **21**) .

User transmission limitation

Specify the maximum upload and download speed (KB/s) by entering the proper values in the related boxes.

■ UPnP Media Server

Windows OS | FTP | UPnP Media Server | iTunes Server | USB Printer

UPnP Media Server

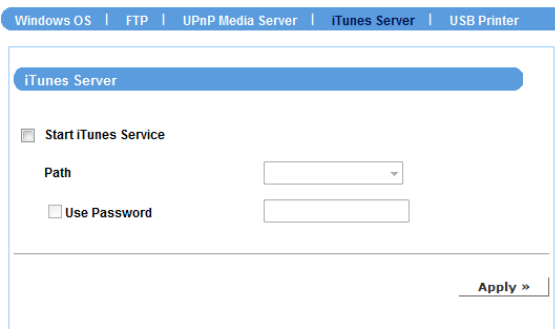
☐ Start UPnP Media Service

Path

Apply »

The device supports UPnP (Universal Plug and Play) and port auto mapping function so that you can access the device if it is behind an NAT router or firewall. Select this option to enable the UPnP media server and then assign the **Path** from the list.

■ iTunes Server

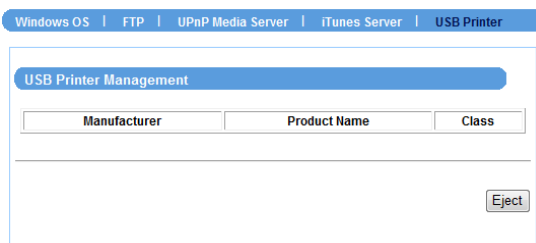


The iTunes Server configuration interface is shown within a blue header bar containing navigation links: Windows OS, FTP, UPnP Media Server, iTunes Server, and USB Printer. The main content area has a blue title bar labeled 'iTunes Server'. Below this, there is a checkbox labeled 'Start iTunes Service'. Underneath the checkbox is a 'Path' label followed by a dropdown menu. Below the dropdown is another checkbox labeled 'Use Password' followed by a text input field. At the bottom right of the form is an 'Apply »' button.

The device features an iTunes Server. It provides the ability to share files to the computer on the local network running iTunes. If the function is enabled, the device will be automatically detected in the iTunes program and the files contained in the specified directory will be available to stream over the network.

Select this option to enable the iTunes server and then assign the **Path** from the list. You can also set up the **Use Password** to avoid unauthorized access.

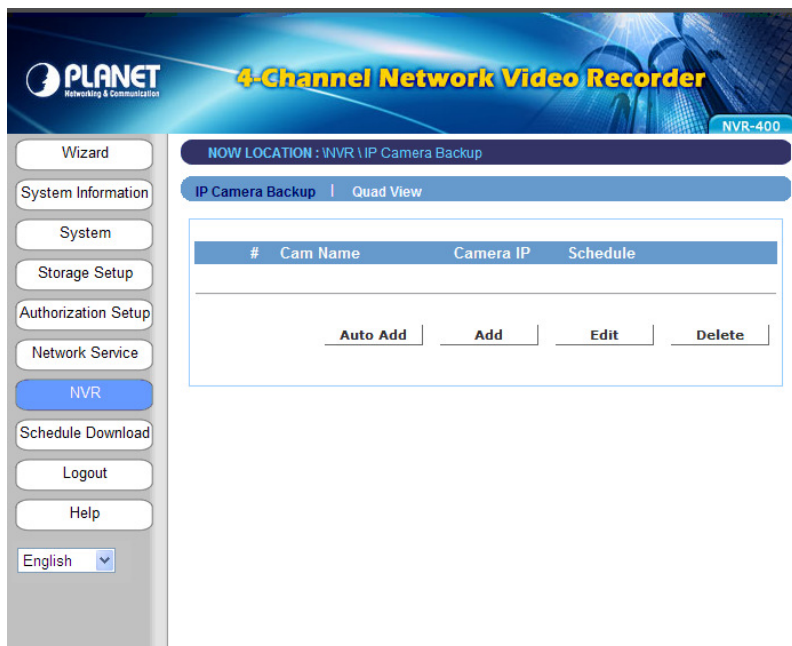
■ USB Printer (only when an USB printer is connected)



The USB Printer Management interface is shown within a blue header bar containing navigation links: Windows OS, FTP, UPnP Media Server, iTunes Server, and USB Printer. The main content area has a blue title bar labeled 'USB Printer Management'. Below this, there is a table with three columns: 'Manufacturer', 'Product Name', and 'Class'. Below the table is an 'Eject' button.

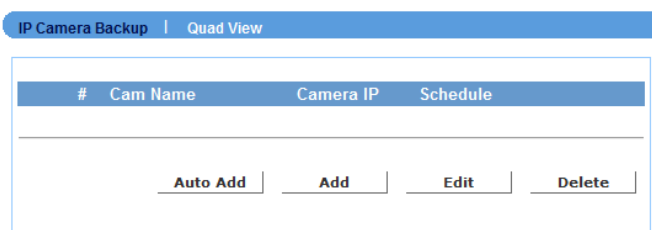
When you connect an USB printer to the USB Port 2 of the device, this sub-menu displays the information of the USB printer.

4.2.6 NVR



The NVR menu allows you to add Internet cameras and view the live video.

■ IP Camera Backup



Click **Auto Add** to add the camera automatically, or click **Add** and to add the camera manually through the following setup window:

IP Camera Backup Job Setup

IP

HTTP Port

RTSP Port

User ID

Password

Cam Vendor

Split file

Space

Motion Enable ☐ Yes ☒ No
(Please enable camera motion detection function first)

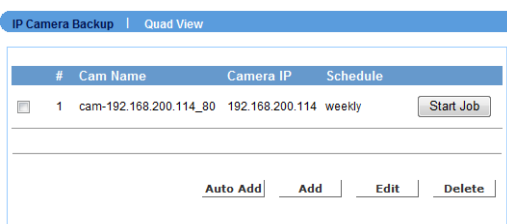
Recycle ☐ Yes ☒ No

Limit ☐ Yes Limit MB ☒ No

Next »

- **IP**
Enter the IP address of the camera.
- **HTTP Port**
Assign the HTTP Port for the camera (the default is **80**).
- **RTSP Port**
Configure the transmission of streaming data within the network. The default RTSP (Real Time Streaming Protocol) port is **554**.
- **User ID/Password**
Enter the user name and password for accessing the camera.
- **Cam Vendor**
Select the manufacturer of the camera from the list.
PLANET1: ICA-108 / 108W / 120 / 230 / 310 / 312 / 350 / 501 / 525 / 530 / 601 / 651 / M230 / IVS-110
PLANET2: ICA-M220 / M220W
PLANET3: ICA-510 / 700
PLANET4: ICA151 / 750
- **Split file**
When the recorded file is too large, use this option to split it by selecting file size.
- **Space**
Specify the storage space for the camera.
- **Motion Enable**
Enable or disable the motion detection of the camera (if have).
- **Recycle**
Enable or disable the recycling function when the storage space on the device is full.
- **Limit**
Select **Yes** to limit the recording file by specifying the storage volume from the list. Otherwise, select **No** to record without limitation.

When completed, click **Next** to set up the schedule for using the camera, and then click **Apply** to add it to the list.



The screenshot shows a web interface titled "IP Camera Backup | Quad View". It contains a table with the following data:

#	Cam Name	Camera IP	Schedule
1	cam-192.168.200.114_80	192.168.200.114	weekly

Below the table, there are four buttons: "Auto Add", "Add", "Edit", and "Delete". A "Start Job" button is located to the right of the table.

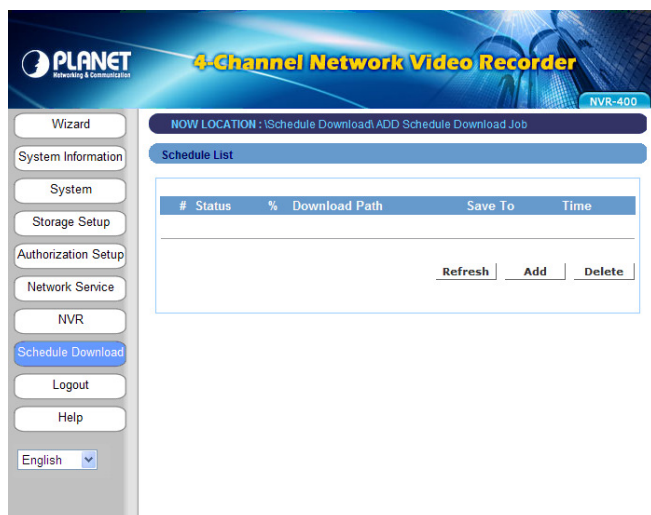
You can then change the configuration of the camera by selecting it from the list and then clicking **Edit**. To remove a camera, select it and then click **Delete**.

■ Quad View



In the Quad View screen, you can view the live video from the connected camera. You can view up to four cameras simultaneously.

4.2.7 Schedule Download



The Schedule Download menu allows you to set up download schedule.

Click **Add** and the following setup window will appear:

- **Login**
Select **Anonymous** or **Account** from the list according to the settings of the target server. If you have to select **Account** to login, you should enter the correct **User name** and **Password**.
- **URL**
Enter the URL address of target server.
- **Save To**
Assign the destination folder from the list to save the downloaded files.
- **When**
From the **Date** and **Time** setting options, set up the start-up time to download files.
- **Backup**
Enable the backup function of your device by selecting **None**, **Every Day**, **Every Week**, or **Every Month**, as well as the **Time**.

When completed, click **Apply** to save this download task to the Schedule List.

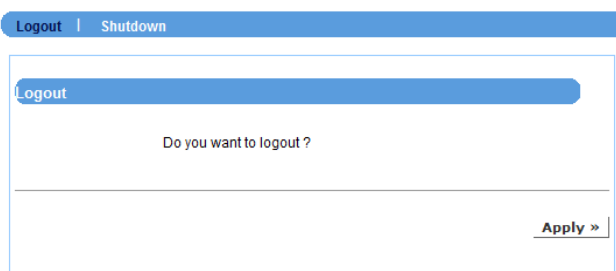
You can delete the download task by selecting it from the Schedule List and then clicking **Delete**. When you change the settings of selected task, click **Refresh** to reload the status of these tasks.

4.2.8 Logout



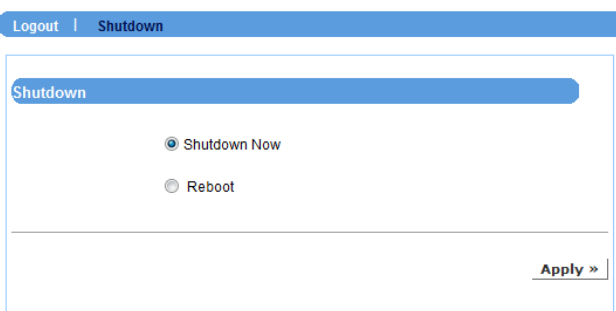
The Logout menu allows you to exit or shutdown the system.

■ Logout



From this sub-menu, click **Apply** to exit the Web Configuration Utility and go back to the Login window.

■ Shutdown



From this sub-menu, you can do one of the following:

- Select **Shutdown Now** and click **Apply** to turn off the device.
- Select **Reboot** and click **Apply** to reboot the device.

4.2.9 Help



The Help menu displays the information for each setting option of the device. Click the topic (marked as *blue* color) to link to the corresponding page and view the related information in detail.

APPENDIX

Specifications

General	
OS	Embedded Linux
Ethernet	1 x RJ-45, 10/100/1000 Base-TX
USB Interface	2 x USB2.0 for backup device and printer
Storage Device	2 x 3.5" SATA hard disk
Button	Shut down button, Unmount button, Reset button
LED Display	1 x LAN, 2 x HDD, 2 x USB
HDD Configuration	Standard, RAID 0, 1 and JBOD
Video Input	4 channels IP camera
Recording Mode	Manual, Schedule
Network Service	TCP/IP, DHCP, DNS, HTTP, FTP, NTP, SMTP, UPnP
Network File Protocol	Microsoft Networks (CIFS/SMB), Internet (HTTP), FTP
Management	Web-based administration Network Time Protocol Multiple users account E-mail notification System log Firmware upgrade
File System Type	Internal HDD support: XFS External USB drive support: FAT32 / EXT3
User Interface	IE browser IPFinder utility
Multiple Language	Yes

USB Compatible List

USB Flash Disk

Vendor	Model
Apacer Technology Inc.	Handy Steno 2.0/HT203
CompUSA	1GB Flash Drive
Kingston Technology Company Inc.	DataTraveler 2.0 4GB Flash Drive
Microdia	iFlash SM-Direct Card Reader
Phison Electronics Corp.	AES1600
Alcor Micro Corp.	Transcend JetFlash Flash Drive
Kingston Technology Company Inc.	Patriot Xporter 4GB
Alcor Micro Corp.	Transcend JetFlash Flash Drive
Ours Technology Inc.	OTI-6803 Flash Disk
Realtek Semiconductor Corp.	Mass Storage Device
Ours Technology Inc	Transcend JetFlash 2.0 / Astone USB Drive
Imation Corp.	6155 Phone Parent
Silicon Integrated Systems Corp.	Super Flash 1GB / GXT 64MB Flash Drive

USB Printer

Vendor	Model
HP	LJ-1020
Canon	IP1880
Fuji Xerox	Doc Print 203A.

Motion Detection Configuration

■ Example for ICA-530

1. At NVR page, please click “yes” in Motion Enable item.

PLANET 4-Channel Network Video Recorder NVR-400

NOW LOCATION : NVR \ IP Camera Backup

IP Camera Backup | Quad View

IP Camera Backup Job Setup

IP: 192.168.200.114

HTTP Port: 80

RTSP Port: 554

User ID: admin

Password:

Cam Vendor: PLANET1

Split file: 10

Space: Space 1

Motion Enable: ☒ Yes ☐ No
(Please enable camera motion detection function first.)

Recycle: ☐ Yes ☒ No

Limit: ☐ Yes Limit: 0 MB ☒ No

2. At Network Service page, Please Enable the FTP Service.

PLANET 4-Channel Network Video Recorder NVR-400

NOW LOCATION : Network Service \ FTP

Windows OS | FTP | UPnP Media Server | iTunes Server | USB Printer

FTP Service

☒ Start FTP Service Status: Enabled

FTP Port: 21

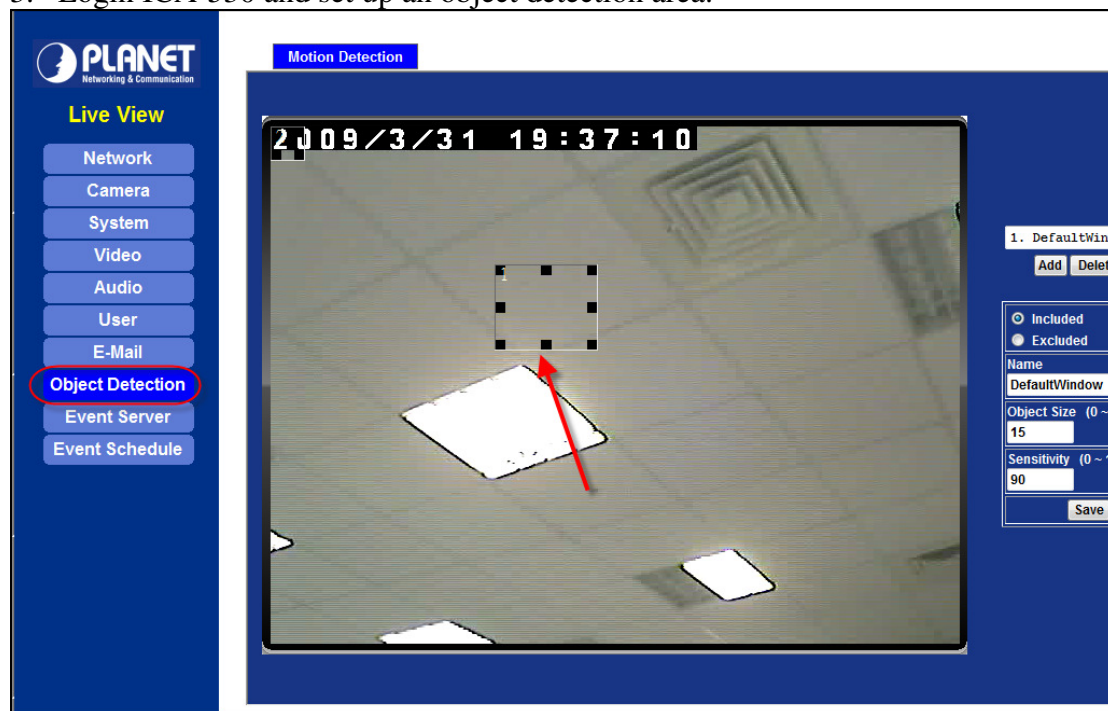
☐ Use transmission limitation

Maximum Upload speed per client: 0 KB/s (0 is unlimited)

Maximum Download speed per client: 0 KB/s (0 is unlimited)

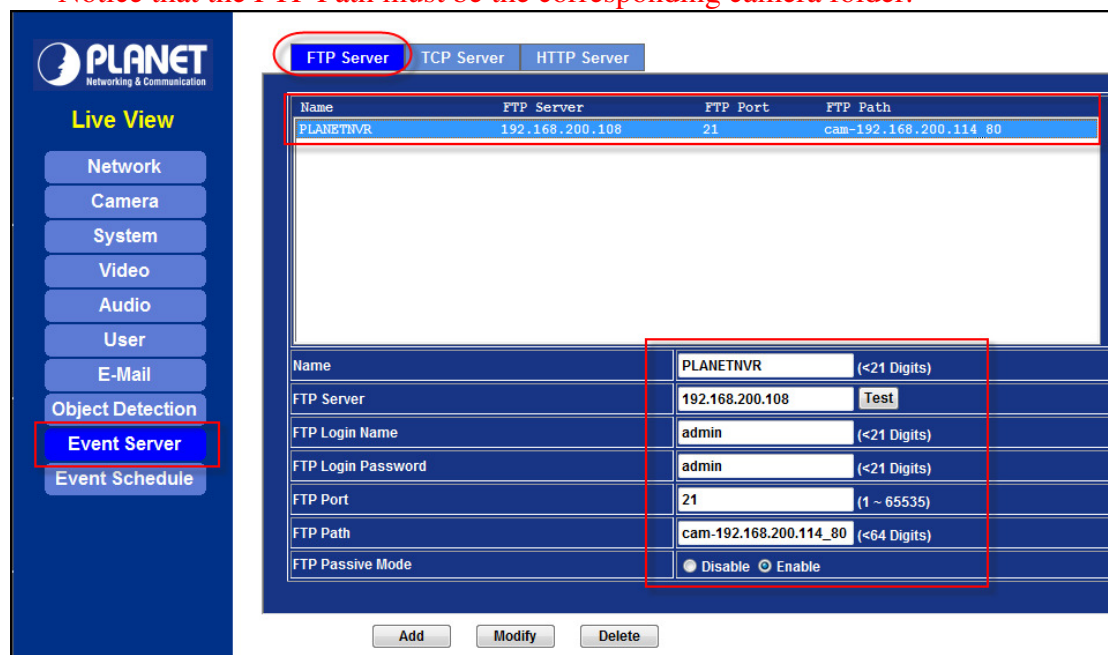
Apply »

3. Login ICA-530 and set up an object detection area.



4. At Event Server page, please add NVR as the FTP Server.

Notice that the FTP Path must be the corresponding camera folder.



5. At Event Schedule page, first you have to enable the motion detection. Second, select the item of Sending FTP.

Name	Enable	Type	Weekday	Start	Duration	Trigger by	Action
Motion Trigger	no	Event	1111111	0:0	24:0	x,M1	FTP

Name	Motion Trigger
Enable	<input checked="" type="radio"/> Yes <input type="radio"/> No 1
Type	<input checked="" type="radio"/> Event Trigger <input type="radio"/> Schedule Trigger, Interval <input type="text" value="1"/> (Minute)
Enable Time	<input checked="" type="checkbox"/> Sun <input checked="" type="checkbox"/> Mon <input checked="" type="checkbox"/> Tue <input checked="" type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input checked="" type="checkbox"/> Sat Start from <input type="text" value="0"/> : <input type="text" value="0"/> , Duration <input type="text" value="24"/> : <input type="text" value="0"/> (max 168:00 hours)
Trigger by	<input type="checkbox"/> Sensor <input checked="" type="checkbox"/> Active <input type="checkbox"/> Motion Area <input type="text" value="DefaultWindow"/>
Action	<input checked="" type="checkbox"/> Send FTP <input type="text" value="PLANETNVR"/> 2 <input type="checkbox"/> Send TCP <input type="text" value=""/> <input type="checkbox"/> Send HTTP <input type="text" value="NVR"/> <input type="checkbox"/> Send E-Mail

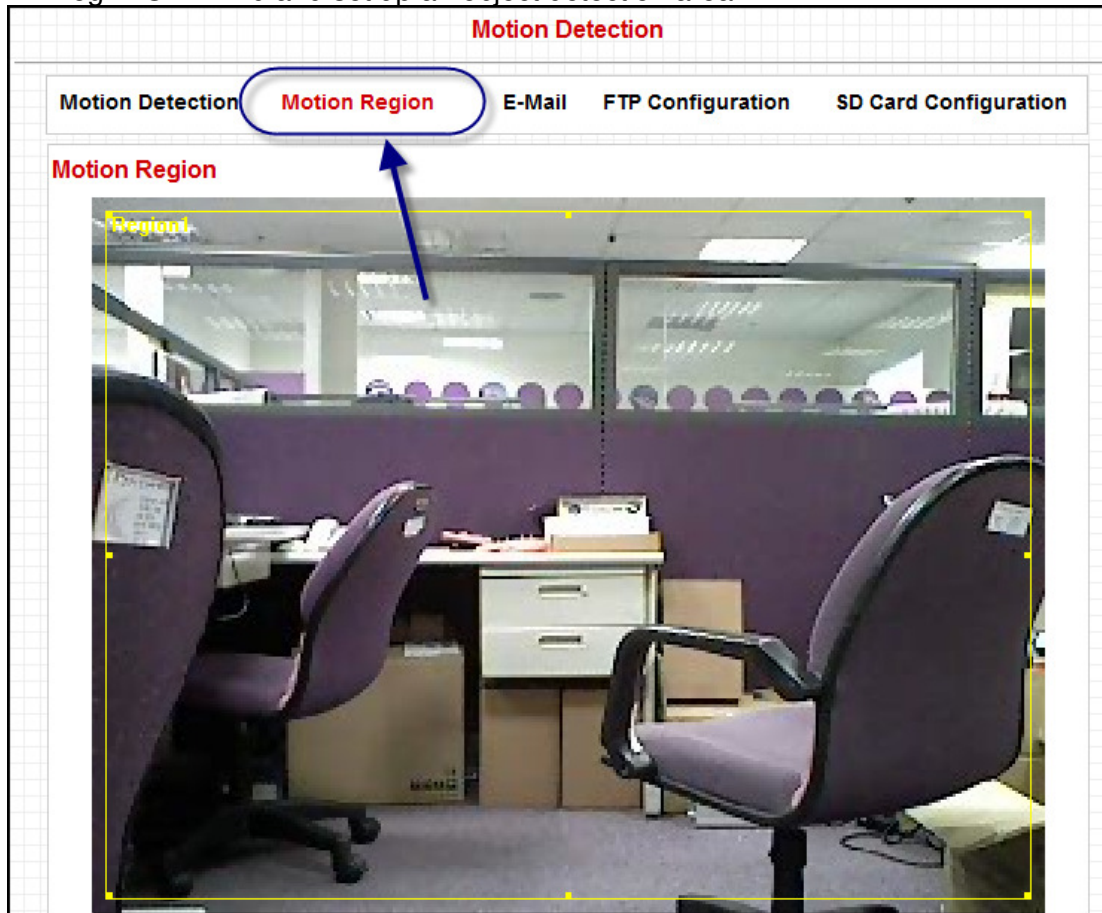
6. Go back to NVR page and click **start job**.

Notice that if you want to stop motion detection, please stop it in ICA-530 first. Then click the stop job button in NVR page.

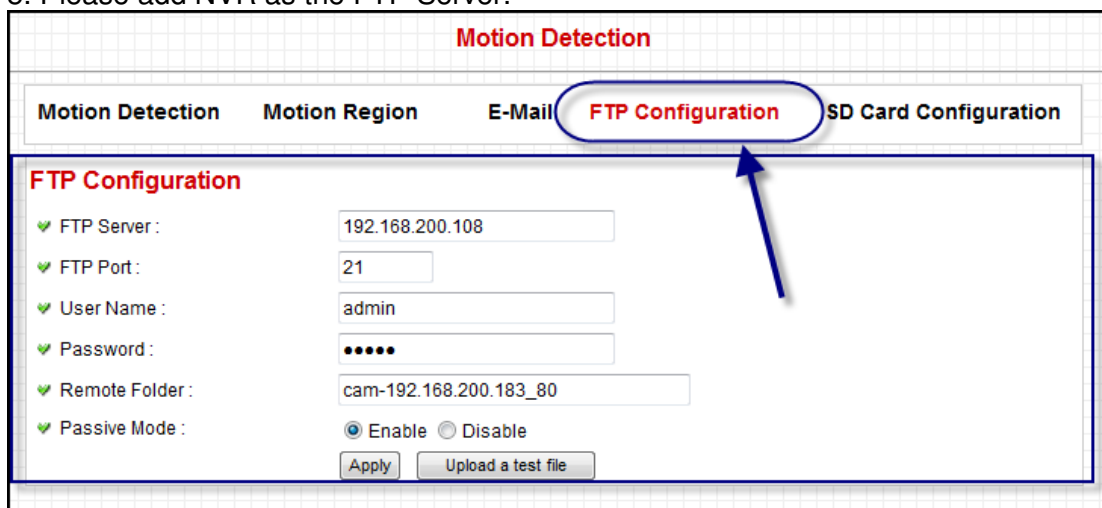
#	Cam Name	Camera IP	Schedule	
<input type="checkbox"/>	1	cam-192.168.200.114_80	192.168.200.114	weekly <input type="button" value="Start Job"/>
<input type="checkbox"/>	2	cam-192.168.200.183_80	192.168.200.183	weekly <input type="button" value="Start Job"/>

■ **Example to ICA-M220**

1. The same as ICA-530.
2. The same as ICA-530.
3. The same as ICA-530.
4. Login ICA-M220 and set up an object detection area.



5. Please add NVR as the FTP Server.



6. Enable motion detection and select the item of Send snapshot file to FTP.

Motion Detection

Motion Detection Motion Region E-Mail FTP Configuration SD Card Configuration

Motion Detection

- ✓ Enable Motion Detection : ☒ Enable ☐ Disable
- ✓ Motion Detection Interval : 10 seconds
- ✓ Recording Time : 5
- ✓ Sending File Type : AVI
- ✓ Send snapshot file to FTP : ☒ Enable ☐ Disable
- ✓ Send snapshot file to E-Mail : ☐ Enable ☒ Disable
- ✓ Send snapshot file to SD Card : ☐ Enable ☒ Disable

Apply

7. Go back to NVR page and click **start job**.