



NAS (camDisk)

User's Manual

NAS (camDisk) Beta

NAS (camDisk) _Setup revision: 1.2

Manual revision: 1.3

Date: August 31, 2004

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Revision History

Revision	Date	Changes
1.0	December 11, 2003	Release camDisk Beta setup manual / Angus Wang
1.1	January 28, 2004	Add Changing Words and Information / Angus Wang
1.2	April 23, 2004	Add information for NAS(camDisk) upgrade / Angus Wang
1.3	August 31, 2004	Revise camDisk User Manual / James Huang.

Table of Content:

- Revision History2
- Table of Content: 2**
- 1. Network Attached Storage..... 4**
 - 1.1 Introduction 4
 - 1.2 Features 5
 - Simple to install, handy and light for portability5
 - 1.3 Package Contents 5
 - 1.4 LED and Switch Usage 6
- 2. NAS (camDisk) Installation..... 7**
 - 2.1 Hard disk installation 7
 - 2.2 IP Address Configuration 8
 - 2.3 How to setup IP address of your PC 10
- 3. NAS (camDisk) Management 13**
 - 3.1 Entering Administration Pages 13
 - Method 1: Start with Windows Explorer (under Windows98) 13
 - 3.2 Disk Management Functions..... 16
 - 3.3 Express setup 17
 - 3.4 Account management and backup 19
 - 3.5 Network Setup..... 19
 - ADSL Network Setup.....20
 - ADSL Notification Mail-list setup.....21
- 4. Accessing NAS (camDisk) from Client. 22**
 - Using Microsoft Windows Series22
 - Method 1: Map Directly (recommended):22
 - Method 2: Find Computer...24
 - Method 2: Use the “net use” command25
 - 4.2 Access Public Directory..... 26
 - 4.3 Disconnecting NAS (camDisk) 26

NAS (camDisk)

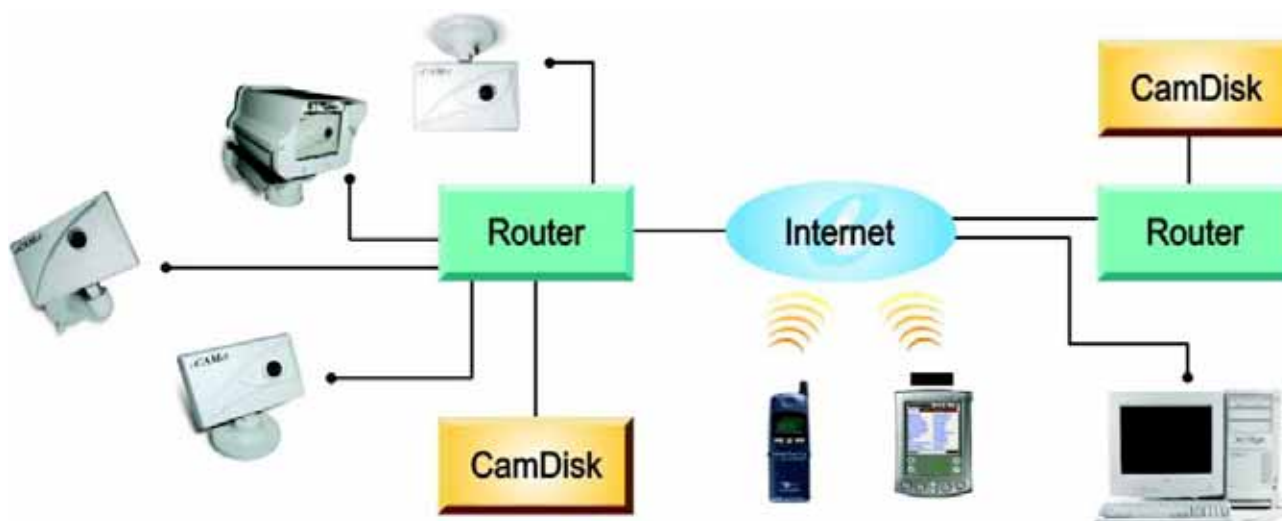
4.4 Using Unix / Linux as a client	27
4.5 Using FTP Client	28
5. NAS (camDisk) Maintenance	29
5.1 Reboots / Shutdown	29
5.2 Administrator Password Reset	30
5.3 Hard Disk Failure / System Malfunction	30
5.4 Abnormal Shutdown	31
6. NAS (camDisk) Upgrade	31
6-1 What is camDisk	33
6-2 Where to get camDisk AP	35
6-3 Where to get the IP cameras, eCAMit III.....	35
6-4 Easy setup & Testing for camDisk with eCAMit III	36
6-4-1 Event Recording	36
6-4-2 Always Recording	36
6-4-3 Schedule & Event Recording	37

1. Network Attached Storage

1.1 Introduction

NAS (camDisk) is a compact, economical and energy saving? NAS (Network Attached Storage) device. It is especially suitable for family or SOHO (Small Office or Home Office) requirements, because it works like a 7-users licensed file server. Users in a LAN can easily backup data or share files through intranet. It is compatible with Unix/Linux or M.S Windows O.S. network environment. (Note: Macintosh users can only use ftp software as a client to transfer files.) Its set-up procedures and operations are simple and user-friendly. With the highly stable and energy saving Linux device embedded, it is suitable for extended usage.

3JTech's NAS is also called **camDisk** since it can be configured as a standalone digital video recorder for 3JTech's IP cameras, aka eCAMits. The system configuration for camDisk is as follows:



For more detailed information on the setup of camDisk on top of 3JTech's NAS, please refer to the camDisk AP User's Manual.

1.2 Features

Family or SOHO File Server

Factory Data Recorder

Data Backup

Simple Installation

Operating System Independent

Simple to install, handy and light for portability

Low Cost, Low Power Consumption and Low Heat Dissipation

Support DHCP / Fixed IP Address

Web Browser Management User Interface

Multi Protocol Support: TCP/IP, HTTP, SMB and FTP mode

Password protected - Public / Supervisor password system for you to decide who is authorized to browse the hard disk.

1.3 Package Contents

NAS (camDisk) product package contains:

- NAS (camDisk) Appliance
- User's Manual
- Power Cord
- With 120G Hard Disk

1.4 LED and Switch Usage



From the front view of the NAS (camDisk), you will see three lights:

1. Red LED : When the hard disk only have 5% disk space left, this red light will blink.
2. Green LED : If there is an unread recording file, this green light will blink.
3. Red LED : Power light. This is a two-color LED for indicating both **Power** and **disk-status**. The Green LED will go on if you switch on NAS (camDisk) or flashes if the system encounters errors. The Red LED indicates either the running state of hard disk or the errors of the system; it will be on if the space of hard disk has been used up or flash if hard disk is being checked.



NAS (camDisk)

From the back view of NAS (camDisk), **Power** switch can be found. You can flip the power switch to turn-on or turn-off the server.

The three LEDs indicate:

1. **RED LED:** DHCP Mode enabled if on. If your network supports DHCP (Dynamic Host Configuration Protocol) to detect IP address automatically, you can enjoy using DHCP directly; otherwise, use Fixed IP mode instead; in that case, this LED will be **OFF**.
2. **YELLOW LED:** network speed is 100 Mb/Sec.
3. **GREEN LED:** network speed is 10 Mb/Sec.

There is a reset button (a tact switch) for you to reset NAS (camDisk) back to the factory default. Please use a pen or like, to press the reset button, hold steady for more than 10 seconds. The RED LED will flash when all reset procedures are done. You can then release the button to reboot the system to enable the original setting.

2. NAS (camDisk) Installation

The following information contains the physical description of NAS (camDisk). This includes the functions and the locations of each connector and indicator. The information provides useful reference when installing the product. Please familiarize yourself with NAS (camDisk).

2.1 Hard disk installation

The inner circuit diagram is as follows and can be use as reference while installing your hardware.

Installation Procedures:

1. Unplug the four plastic plugs and unscrew the screws to open the box. You can find the IDE bus and the power cord for connecting your hard disk.



2. Connect both IDE bus and power cord to your hard disk
3. Mount and fasten your hard disk firmly to one of the drive bracket.
4. Close the box and restore all screws and plastic plugs.

2.2 IP Address Configuration

NAS (camDisk) needs an IP address for users to access it via network. There are two alternatives, via DHCP or Fixed IP, depending on your local network environment. If your network supports the DHCP to detect IP address automatically, you can simply use DHCP directly; otherwise, you have to assign a fixed IP. By the reason of that the factory default for your NAS (camDisk) is in fixed IP mode. Connect your NAS (camDisk) to the network by plugging a RJ-45 Ethernet wire between the server and your local network socket.

NAS (camDisk)

The factory default settings of your NAS (camDisk) are listed below:

IP Address	192.168.1.250
Netmask	255.255.255.0
Gateway	192.168.1.254

You need a client PC to configure the NAS (camDisk) via network. The simplest way is to set its network configuration to (more details in **How to setup IP address of your PC**, page. 9)

IP Address	192.168.1.252
Netmask	255.255.255.0
Gateway	192.168.1.254
DNS	disabled

After setting and rebooting your client PC, you can launch your web browser (such as IE or NETSCAPE) and type the IP address <http://192.168.1.250> in the address bar of the browser then press **Enter**. Once connected to NAS (camDisk) successfully, you can see the login page as follows.



Please Input New Web Administrator Password

New Password:	<input type="text"/>
Reinput Password:	<input type="text"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Do not change

Please enter the default administrator password in order to setup your own IP address by:

NAS (camDisk)

1. Follow the links **Network Setting** = > **TCP/IP Network Setting**, you can setup your own IP address by switching DHCP mode or designate an IP you want as follows:



TCP/IP Setting	
<input type="radio"/> Using DHCP	
<input checked="" type="radio"/> Using FIXIP	
IP Address	61.56.193.59
NETMASK	255.255.255.128
Gateway	61.56.193.120
<input type="button" value="Submit"/>	

No Change, Leave

Note: Each IP or Gateway value delimited by period ranges from 1 to 254.

Each subnet mask value delimited by period ranges form 0 to 255.

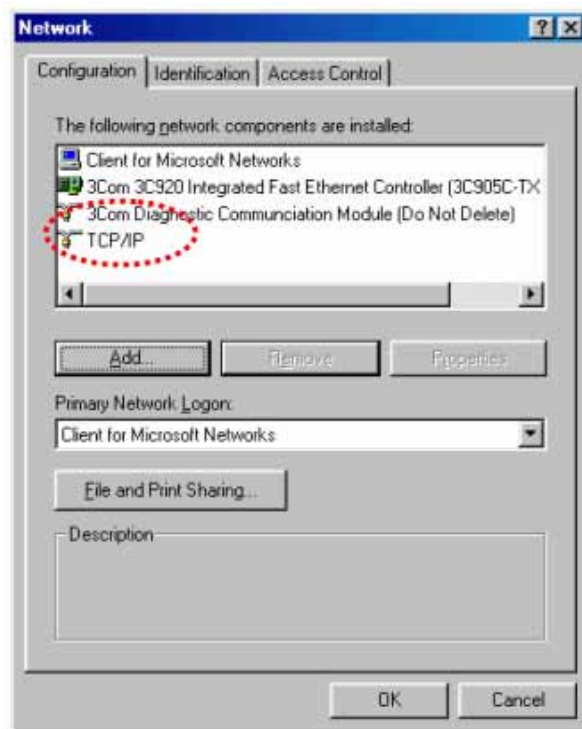
1. After the IP configuration is completed, you can reboot the NAS (camDisk) to make the new network settings work.
2. Useful management functions are provided in details later.

2.3 How to setup IP address of your PC

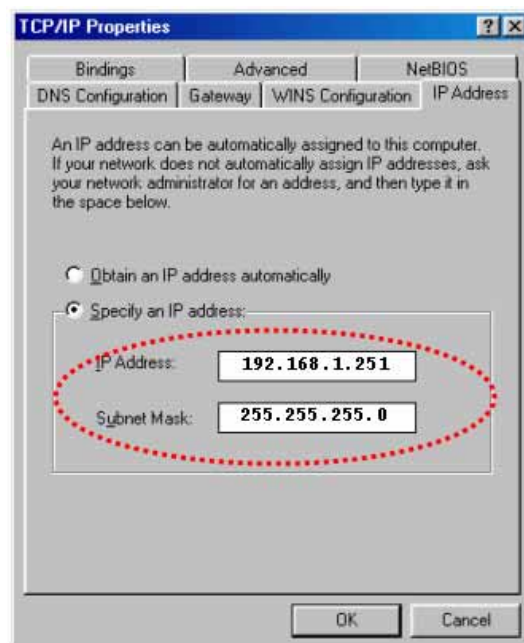
If above procedures are not familiar to you, the following detailed instructions will guide you through step by step.

From the client PC, some screen snapshots and detailed procedures are illustrated below:
(Under Windows 98)

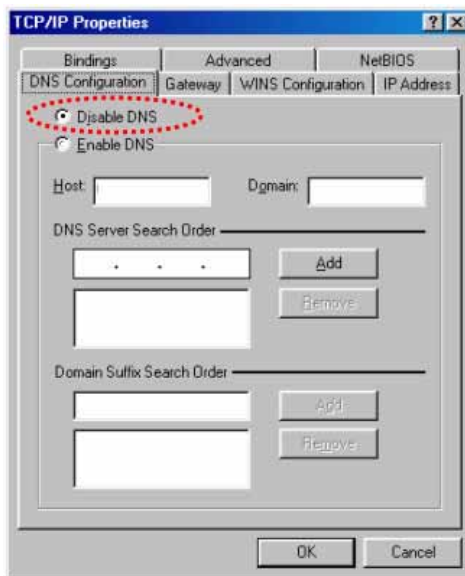
1. Open **Control Panel**, execute **Network**
2. Choose **TCP/IP**, click **Property**



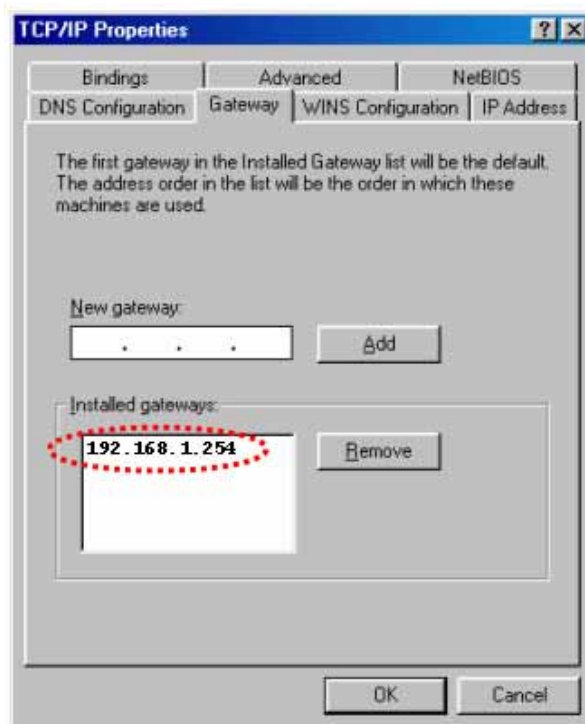
3. After configuring IP Address and subnet mask, press **OK**



4. Click **Disable DNS**, press **OK**

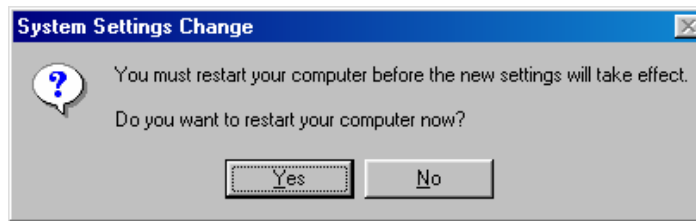


5. Append a new gateway to **192.168.1.254**, click **OK**



NAS (camDisk)

6. You are ready for “NAS (camDisk) Management”



7. Configure your NAS (camDisk) according to *NAS (camDisk) Management*

8. Reboot NAS (camDisk).

9. Restore your client PC original configuration.

10. Reboot your PC.

3. NAS (camDisk) Management

After hardware has been installed, “NAS (camDisk) Management” allows administrator to access all the administration utilities, via browser interface, to alleviate some tedious setup process.

Simply launch your web browser (Microsoft Internet Explorer 5.0 or above is recommended) to link to NAS (camDisk). After passing authorization procedures (enter the administrator password), you will be able to perform all the administration work via web browser. The administration work includes:

- Add/Delete users
- Password modification
- Network reconfigurations
- Disk partition/format etc.

The detailed procedures will be introduced below:

3.1 Entering Administration Pages

There are two approaches, which will connect you to the homepage of the administrator pages. Method 1, if you choose DHCP mode (recommended) and method 2 is for using fixed IP mode.

Method 1: Start with Windows Explorer (under Windows98)

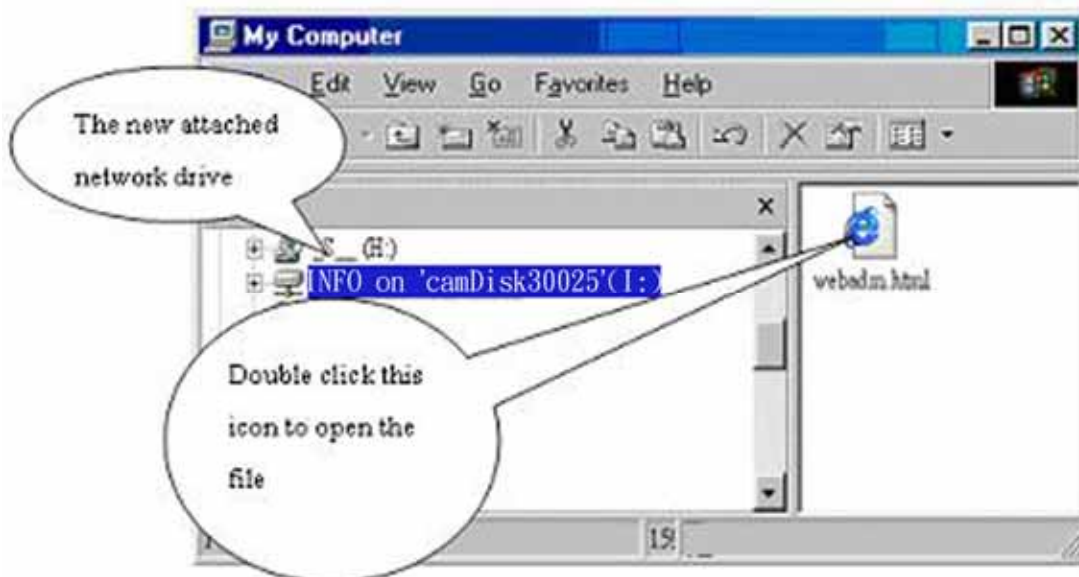
1. From client PC, Launch **Windows Explorer** and then click on **Map Network Drive..** Under the **Tool** menu. After **Map network drive...** icon appears, choose a path to attach, fill in “ \\ camDisk**serial number** \ info” and then press **OK**. (The **serial number** can be found

NAS (camDisk)

listed on the tag attached on the back of the NAS (camDisk)). Taking \\ camDisk30025 as example, if you want to mount your device to drive E, you can do as follows:



2. After a while, a newly attached network drive will appear in the “Windows Explorer” and an icon named **webadm.html** will appear if you click on the network drive. Double-clicking that icon will automatically launch default web browser and connect to your NAS (camDisk). Now you can begin the authorization procedures to make use of management utilities bundled in your NAS (camDisk).



NAS (camDisk)

From the home page, enter default administrator password to log onto the server.

3. If you are installing a new hard disk, **Express Setup** is the recommended way to shorten the first-time setup procedures.



User account management and backup	Network Setting
Harddisk setting	Local time setting
	Change web administrator Password
Express Setting	Server information
System Upgrade	

* You May Use "Express Setting " Whenever Install a New Drive

* User Account Management and Backup: Add, Delete User Account or Change User Password

* Hard Disk Setting: Format ,Check Your Drive, or Set Timer of Standby Mode

* Network Setting: Assign IP Address, Host Name ... and ETC.

If You Have any Question

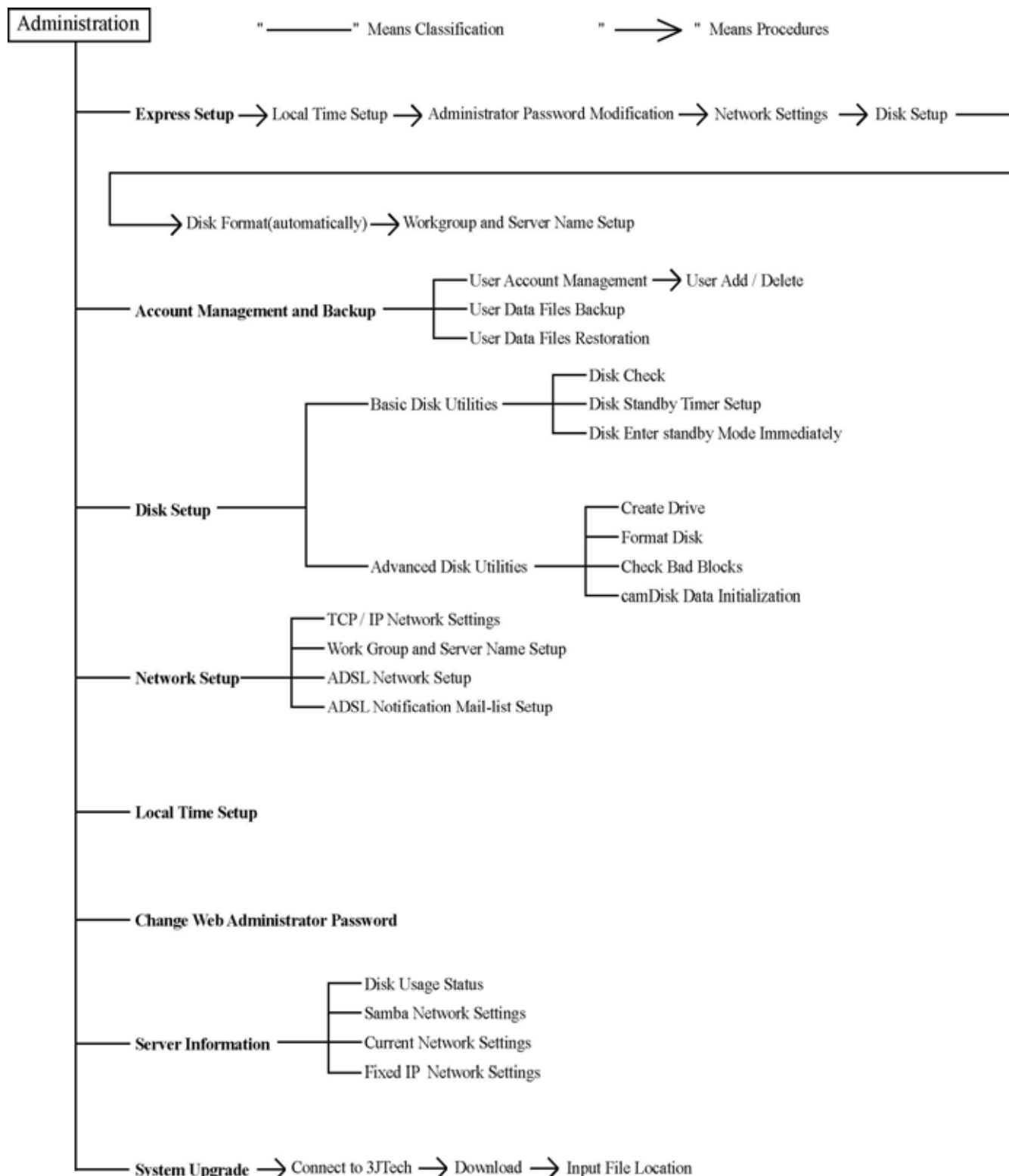
Please mail us: MAIL: info@3jtech.com.tw

TEL: 1-626-9347600

Note: Please turn off your client firewall protection to avoid the error indicating: " the client PC cannot locate your NAS (camDisk)."

3.2 Disk Management Functions

If logon proceeds successfully, you will be able to perform any operations listed in the following function tree:



3.3 Express setup

As a first-time user of NAS (camDisk), you can speed up the setup procedure by going through the **Express Setup**.

The factory default settings:

IP Address	192.168.1.250
NET MASK	255.255.255.0
Gateway	192.168.1.254
Web logon password for administrator	0000
Workgroup name for camDisk (NAS)	camDiskgroup
Server Name for camDisk (NAS)	camDisk?????(Please checkout the attached tag behind the server)
Admin password for samba (when using admin account to map a network drive)	0000

Note: Don't press the **Previous** button in your web browsers while initializing or formatting your hard disk.

Following screen shots are what you will see while going through the Express Setup.



Current Date and Time	
<input type="text" value="2003/12/10 16:57:25"/>	
Time setup:	
Date :	A.D <input type="text"/> / <input type="text"/> <input type="text"/> yyyy/mm/dd
Time :	<input type="text"/> H <input type="text"/> M <input type="text"/> Sec (24H)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

[Do Nothing Leave](#)



Please Input New Web Administrator Password

New Password:	<input type="text"/>
Reinput Password:	<input type="text"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

[Do not change](#)



TCP/IP Setting	
<input type="radio"/> Using DHCP	
<input checked="" type="radio"/> Using FIXIP	
IP Address	<input type="text" value="61.56.193.59"/>
NETMASK	<input type="text" value="255.255.255.128"/>
Gateway	<input type="text" value="61.56.193.120"/>
<input type="button" value="Submit"/>	

[No Change, Leave](#)



Work Group and Server Name	
Work Group	<input type="text" value="camDiskgroup"/>
Server Description	<input type="text" value="3JTech File Server"/>
Server Name	<input type="text" value="camDisk6004"/>
<input type="button" value="Submit"/>	

[Return to main page](#)

3.4 Account management and backup

Numerous users can access the NAS (camDisk) simultaneously. The system administrator can add or delete any accounts, as well as modify passwords by using account management. The default administrator account is **administrator** by which you can configure user privileges and this cannot be deleted.

Account **administrator** can create a new user account if necessary. You will need:

User account:

User account can accommodate as much as 8 characters but must exclude the double-byte characters (such as Chinese, Japanese or Korean) and following characters:

() < > ? = + , ; : []



User Account Management	<i>User Add, Delete, and Change Password</i>
Backup User Regist File and Information File	<i>Back User Regist File</i>
Recovery User Information File	<i>Recovery User Regist File And Information File</i>

[Return to main page](#)

3.5 Network Setup

Network setup comprises of the TCP/IP settings, group name, server name assignments, and ADSL network settings.



TCP/IP Network Setting	System IP Address, Gateway Address, Subnet mask.
Set Works Group and Server Name	Setup Work Group ,Server Name and Others
ADSL Network Setup	Setup ADSL ISF account/password
ADSL Notification Mail-list Setup	Maintain ADSL Notification Mail-list

[Return to main page](#)

You can assign a name for your NAS (camDisk), which will be shown on **Network Neighborhood** while you browse the Internet.



Work Group and Server Name	
Work Group	<input type="text" value="camDiskgroup"/>
Server Description	<input type="text" value="3JTech File Server"/>
Server Name	<input type="text" value="camDisk6004"/>
<input type="button" value="Submit"/>	

[Return to main page](#)

ADSL Network Setup

To enable ADSL connection, ADSL networking settings have to be completed. Once you correctly setup ADSL, NAS (camDisk) will automatically connect to your ISP every time you reboot the system and mail information to those whom you designate.

Please fill out the following form with the correct account and password provided by your ISP. This information will be automatically sent to ISP for authorization while connecting to the network using ADSL.



ADSL ISP Account and Password Setup	
ISP Account	<input type="text"/>
ISP Password	<input type="text"/>
<input type="button" value="Submit"/>	

[Return to main page](#)

ADSL Notification Mail-list setup



Email	Mail Server	Click Here to Add a New User
nasuser1@3jtech.com.tw	61.56.193.99	Delete

[Complete](#)

You can specify persons whom you want to inform via email while NAS (camDisk) is on. Just Click **Click Here To Add a New User** to add a new user and the page will be redirected to the following page.



Add New Users to ADSL Mail List

Email To Send	<input type="text"/>
MailServer Address(IP)	<input type="text"/>

[Return Main Page](#)

Please fill out the form with correct format of email address (such as unename@mailserver1.3jtech.com.tw) and mail server address (such as mailserver1.3jtech.com.tw or its IP address).

The users listed in the mailing list will receive a notification email sent from “NAS (camDisk) AutoPoster” with subject “NAS (camDisk) ADSL Network Data” and content like:

Hello! This is NAS (camDisk) with ADSL connection
My network data is

Using interface ppp0

Connect: ppp0 <...> /dev/tty0

← just ignore this message from pppd

← just ignore this message from pppd

NAS (camDisk)

Local IP address 61.30.202.152	← IP for you network card
Remote IP address 211.78.222.48	← IP address to access from the Internet
Primary DNS address 221.78.215.200	← DNS is Domain Name Server specified by ISP
Secondary DNS address 211.78.215.137	

You can now connect to NAS (camDisk) from anywhere by using an ftp client. For example, you can use ftp client with 221.78.222.48 as the destination address to connect to your NAS (camDisk).

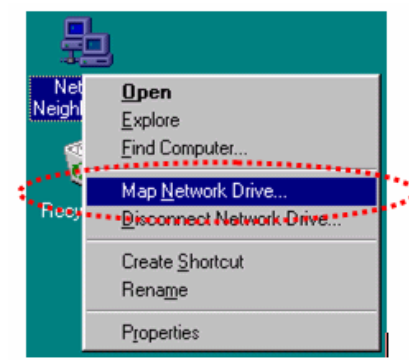
4. Accessing NAS (camDisk) from Client.

Using Microsoft Windows Series

Under windows98, we are now going to demonstrate how to map a network drive step-by-step below. In the following examples, the server name of your NAS (camDisk) is, let's say, camDisk30025 and the account you used to logon to windows domain is nasuer1.

Method 1: Map Directly (recommended):

1. Once you've logged into Windows, right-click your **Network Neighborhood** icon located on the desktop and select **Map Network Drive...** from the menu that pops up. (An alternative is from **Windows Explorer** → Click **Tool** (locate at the taskbar) → Click **Map Network Drive**.)



NAS (camDisk)

2. A window titled **Map Network Drive** will appear prompting you to select a drive letter to map the network drive as, and the path on NAS (camDisk) you are connecting to:



Note: Make sure the box **Reconnect at logon** is unchecked. It's recommended that you do not attempt to have network drives reconnected at logon because it slows down the network and your computer.

Once you have entered in the required information, press the **OK** button.

3. After a moment or two, a window titled **Enter Network Password** will appear, if the password you used to log into windows domain differs from the one on your NAS (camDisk). Enter the same password as used on NAS (camDisk). (If not the same, logon procedures will fail. Please tell your administrator to change your account name in NAS (camDisk) to make sure it is the same as the one used in your PC's Windows Network.)



Next, ensure the **Save this password in your password list** box is checked for later conveniences. For some shared client PC, storing your password on your computer is a security risk and you should uncheck it to avoid some unexpected hacking.

NAS (camDisk)

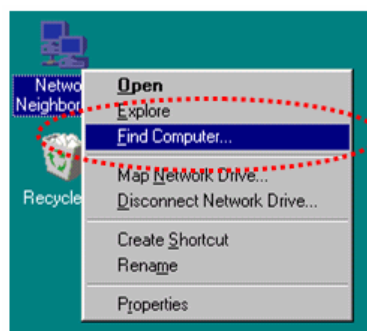
4. After you entered the correct password, your own network volume will now be mapped onto your computer.

You can now use this network drive like a regular hard drive. Depending on the amount of network traffic and your connection speed to the network, the speed that you can access this network drive will vary.



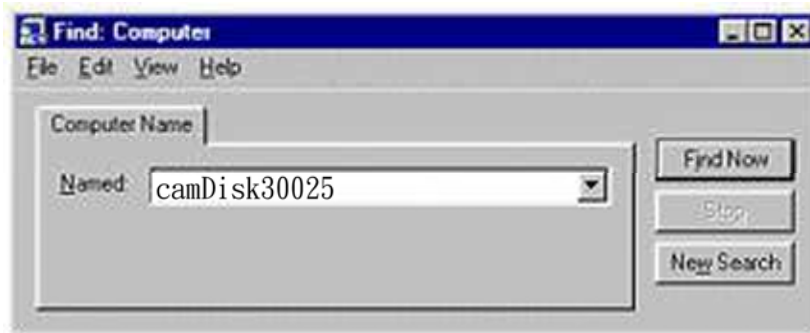
Method 2: Find Computer...

1. Right-click on your **Network Neighborhood** icon located on your desktop and select **Find computer...** from the menu.

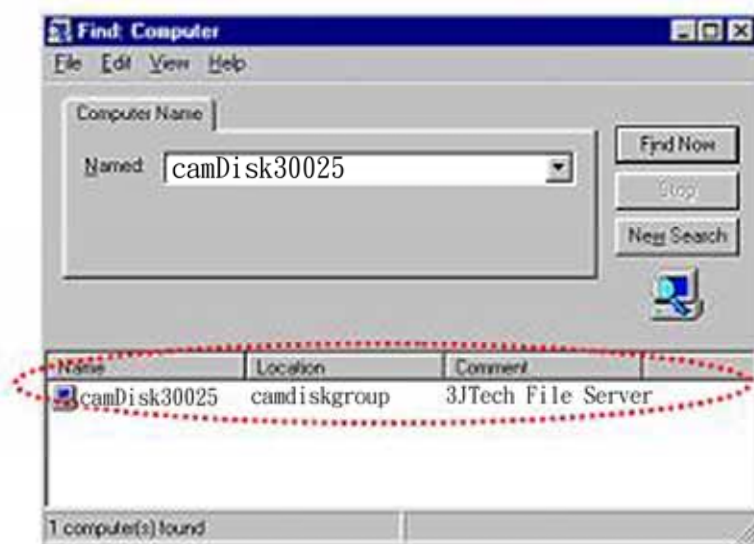


NAS (camDisk)

2. A window titled **Find: computer** will appear. Type the name of the computer you are trying to connect to at the **Named:** prompt. Once you have done this, press the **Find Now** button.



3. After a few moments, the results of your search, if any, will appear at the bottom of the window. Simply double-click the name of the computer and a window will appear listing all the network shares on the computer.



Method 2: Use the “net use” command

From the **Start** menu, select **Run...** and type **Command** to bring up the command Prompt window.

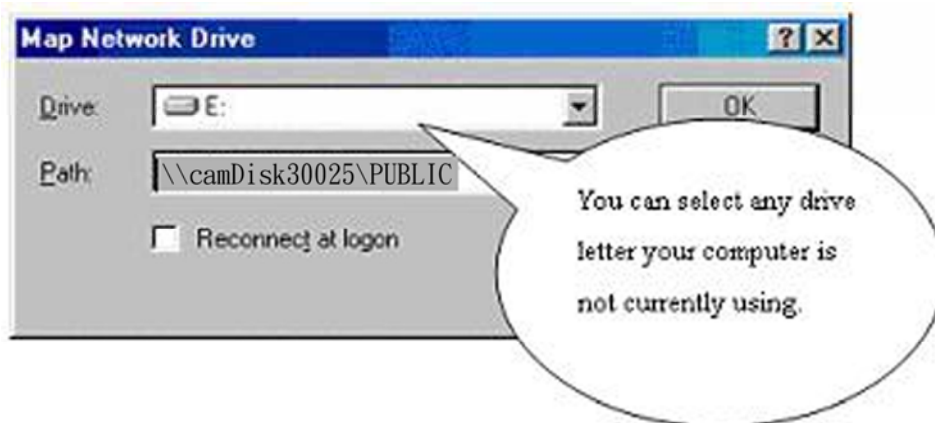
Then type:

```
Net use E: \\camDisk30025\nasuser1
```

Then enter your Windows password.

4.2 Access Public Directory

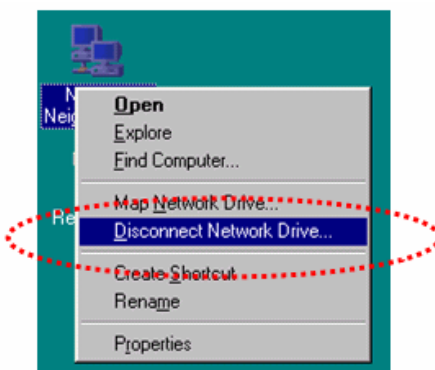
There is a ready-made public directory on your NAS (camDisk) name **public**. After you've successfully attached your home directory on NAS as a local network drive. For security purpose, login your personal account first, then you can attach the public directory as another network drive by assigning the Path value as follows:



No password dialogue will be prompted again to you at this time (because you have to login your own home directory successfully.)

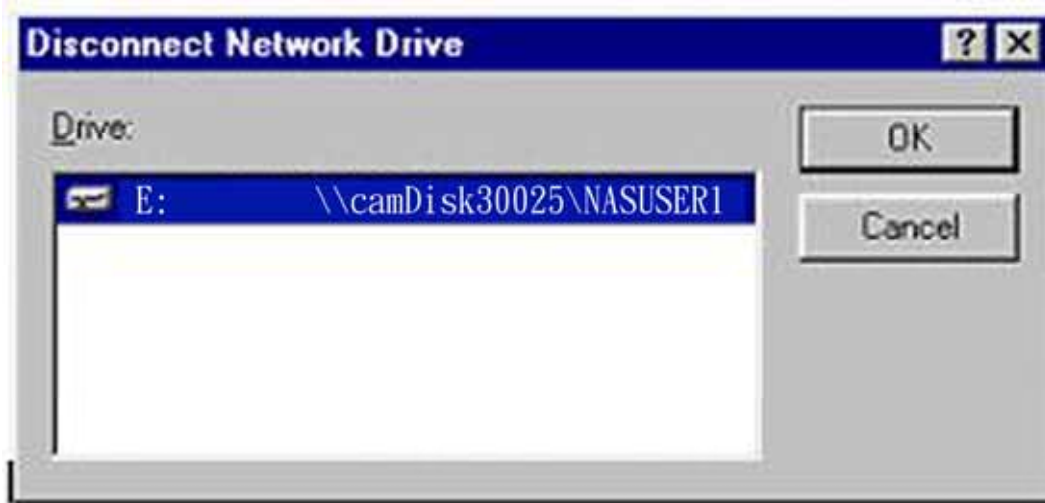
4.3 Disconnecting NAS (camDisk)

1. NAS (camDisk) allows up to 7 connected users to operate simultaneously. You can disconnect NAS (camDisk) to release the occupied resources for other users; therefore, when you are done using your network drive, you should disconnect it. To do this, right-click on your **Network Neighborhood** icon located on your desktop, then select **Disconnect Network Drive...** from the menu.



NAS (camDisk)

2. A window titled **Disconnect Network Drive** will appear. This window will list all the network drives currently connected to your computer. Simply select the drive you wish to disconnect then press the **OK** button.



Once you have disconnected the entire network drives, simply close this window.

4.4 Using Unix / Linux as a client

Besides Windows series, your NAS (camDisk) can access shared resources located on Unix-like platforms such as IBM AIX, HP-UX, Sun Solaris, Linux, Free BSD etc. As long as it is supported by samba protocol. (Following examples still assume that your server name is camDisk30025 and account is nasuser1 and under Linux environment.)

```
[root:]#mount-t smbfs -o username=nasuser1,password=???\n//camDisk30025/nasuser1 /mnt/rfs_arm\n[root]#\n[root]# mount\n/dev/hda5 on / type ext2 (rw)\nnone on /proc type proc (rw)\n//camDisk30025/nasuser1 on /mnt/rfs_arm type smbfs (0) <= mount succeeded!!
```

If the IP of your NAS (camDisk) is 192.168.3.1 and the shared resource you want to connect to is public, you can issue following command to mount that remote resource to local mount point /mnt/rfs_arm:

```
[root]# mount -t smbfs //192.168.3.1/public /mnt/rfs_arm
```

Note: You should have root privilege to complete above operations.

NAS (camDisk)

Now, you can use files under `/mnt/rfs_arm` as if they were located on your local machine. For further information on “mount” command, please type “man mount” under your local Unix-like machine.

4.5 Using FTP Client

With ftp software, you can readily connect to NAS (camDisk) from a client PC inside / outside your LAN (Local Area Network) by using text-mode clients such as ftp under Linux / Windows or GUI-mode clients such as smartftp or filezilla. (They are both freewares) under Windows.

Note: you can download ftp client utilities from:

<http://www.smartftp.com> for smartftp

<http://sourceforge.net/projects/filezilla> for filezilla

User manuals are provided on the websites.

In addition to using your own account to login ftp server, there is an account, anonymous, that you can use to login into shared public directory. While authenticating, just input anonymous as your account and type a valid email address as your password. (thus camDisk30025@3jtech.com.tw).

If you are using text-mode up ftp client under Linux, following is some logged command scripts for your information.

```
$ ftp 192.168.2.222
```

```
Connected to 192.168.2.222
```

```
220 snowman FTP server (Version wu-2.6.1(1) Wed Fed 21 12:30:49 CET 2001) ready
```

```
Name (192.168.2.222): test <Enter your user name>
```

```
331 Password required for
```

```
Password: <Enter your password>
```

```
230 User test logged in
```

```
Remote system type is UNIX.
```

```
Using binary mode to transfer files.
```

```
ftp> ls
```

```
200 PORT command successful
```

```
150 Opening ASCII mode data connection for directory listing.
```

```
Total 2464
```

```
drwxr-xr-x  11 502      4           4096 Jan 20 17:15 busybox
```

```
drwxr-xr-x   3 502      4           4096 Feb 13 15:37 Backup
```

NAS (camDisk)

ftp> help

Commands may be abbreviated. Commands are:

!	debug	mmdir	sendport	site
\$	dir	mget	put	size
account	disconnect	mkdir	pwd	status

ftp> get nl.bin lll.bin

local: lll.bin remote: nl.bin

200 PORT command successful.

150 Opening BINARY mode data connection for nl.bin (859632 bytes).

226 Transfer complete.

859632 bytes received in 0.112 secs (7.5e+03 Kbytes/sec)

ftp> put lll.bin nl.bin

local: lll.bin remote: nl.bin

200 PORT command successful.

150 Opening BINARY mode data connection for nl.bin.

226 Transfer complete.

859632 bytes sent in 0.0213 secs (3.9e+04 Kbytes/sec)

ftp> bye

221-You have transferred 1719264 bytes in 2 files.

221-Total traffic for this session was 1720534 bytes in 2 transfers.

221-Thank you for using the FTP service on snowman.

221 Goodbye.

\$

5. NAS (camDisk) Maintenance

NAS (camDisk) has been designed to operate around the clock with stable, energy saving consumption features and has been provided with special power protection circuit to avoid system crashes unexpectedly caused by power loss. This section provides useful tips to help you with routine maintenance.

5.1 Reboots / Shutdown

Please follow the steps listed below to reboots / shutdown your NAS (camDisk)

1. Make sure all working files are saved for those connected users.
2. Simply flip the power switch to **OFF**, located at the back of your NAS (camDisk).

5.2 Administrator Password Reset

You can perform any administration work on NAS (camDisk), if you have the administrator password. Should you forget that password, just reset the administrator password back to the factory default.



1. Please use a pen or the like, to press the reset button. Hold it for the tact switch for more than 10 seconds. The RED LED will flash to indicate that all reset procedures are done. You can then release the button and reboot the system enabling the original setting.
2. The administrator password will be restored back to 0000.

5.3 Hard Disk Failure / System Malfunction

If you encounter errors which may be caused by hard disk failure or system malfunction, the following steps are recommended:

1. Log all abnormal messages or events for our technician's reference.
2. Shutdown the machine by following correct procedures stated above.
3. Please don't try to repair your NAS (camDisk) on your own. Please contact our trained customer service personnel or technicians for further support.

Note: Please backup your critical files or folders on a regular basis to avoid data loss caused by unexpected hardware failure.

5.4 Abnormal Shutdown

If you encounter any events like power outage or abnormal shutdown, NAS (camDisk) will restore itself back to its original state after reboot. If the system operates abnormally, the following procedures should be followed for it to return to its original settings.

1. In the event of losses in your system configuration settings, please proceed with resetting the configurations manually via web interface.
2. If you still cannot get the server to work normally, our custom service personnel will be pleased to help you out.

Backing up important information or shutting down your server in advance on a regular basis will help prevent the lost of useful data, in event of power outage...etc.

6. NAS (camDisk) Upgrade

It is recommended that you visit our website on a regular basis (maybe seasonal) to update the latest version of NAS (camDisk) in order to receive the most efficient information. You can easily upgrade your NAS (camDisk) by simple procedures listed below:

- Enter our website: www.3jtech.com.tw to check if the latest version of system file is available.
- Download the latest version of NAS (camDisk) system file (in binary format) and jot down the checksum value for that file. Please put the downloaded file on the NAS (camDisk) and the path as well.
- From NAS (camDisk) Management on your NAS (camDisk), choose **System Upgrade**.

User account management and backup	Network Setting
Harddisk setting	Local time setting
	Change web administrator Password
Express Setting	Server information
System Upgrade	

- Enter the path of the newly downloaded system file in the **File Path** then press **Submit**. For example, If the updated system file name is **NewLinux.img**, you must input the filename including full path name, say **/hda1/home/user/NewLinunx.img**, in the "FilePath."



Upgrade System Software	
File Path :	<input type="text"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

[Return to main page](#)

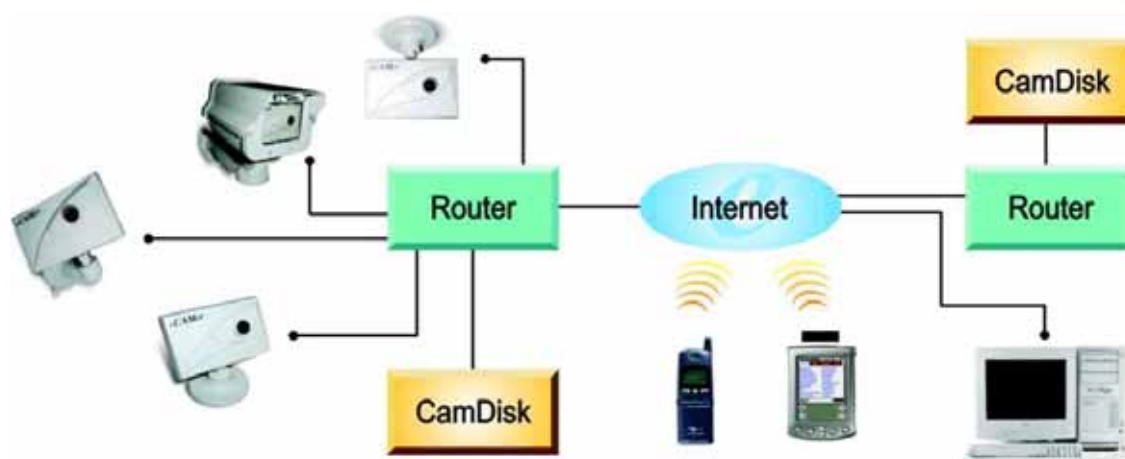
- Just press **Submit** to begin the process and don't turn off your NAS (camDisk) while upgrading is taking place.
- After the completion of system upgrade, NAS (camDisk) will automatically shutdown.
- You can turn on NAS (camDisk) again to use the most updated server.

6-1 What is camDisk

(If you don't want to use it as Digital Video Recorder, please skip this chapter)

NAS (camDisk) is a compact, economical and energy saving? NAS (Network Attached Storage) device. It is especially suitable for family or SOHO (Small Office or Home Office) requirements, because it works like a 7-users licensed file server. Users in a LAN can easily backup data or share files through intranet. It is compatible with Unix/Linux or M.S Windows O.S. network environment. (Note: Macintosh users can only use ftp software as a client to transfer files.) Its set-up procedures and operations are simple and user-friendly. With the highly stable and energy saving Linux device embedded, it is suitable for extended usage.

3JTech's NAS is also called **camDisk** since it can be configured as a standalone digital video recorder for 3JTech's IP cameras, like eCAMits. The system configuration for camDisk is as follows:



For more detailed information on the setup of camDisk on top of 3JTech's NAS, please refer to the camDisk AP User's Manual.

Features:

Family or SOHO File Server

Factory Data Recorder

Data Backup

Simple Installation

Operating System Independent

Simple to install, handy and light for portability

Low Cost, Low Power Consumption and Low Heat Dissipation

Support DHCP / Fixed IP Address

Web Browser Management User Interface

Multi Protocol Support: TCP/IP, HTTP, SMB and FTP mode

Password protected - Public / Supervisor password system for you to decide who is authorized to browse the hard disk.

6-2 Where to get camDisk AP

camDisk AP is the software for camDisk. When you want to review the recorded files from camDisk, you can use the AP for reviewing images or evidence. Software updates will be released constantly with our website, you can download updated software with your needs.

6-3 Where to get the IP cameras, eCAMit III

camDisk can connect up to four cameras, IP address can be setup with camDisk AP shown as

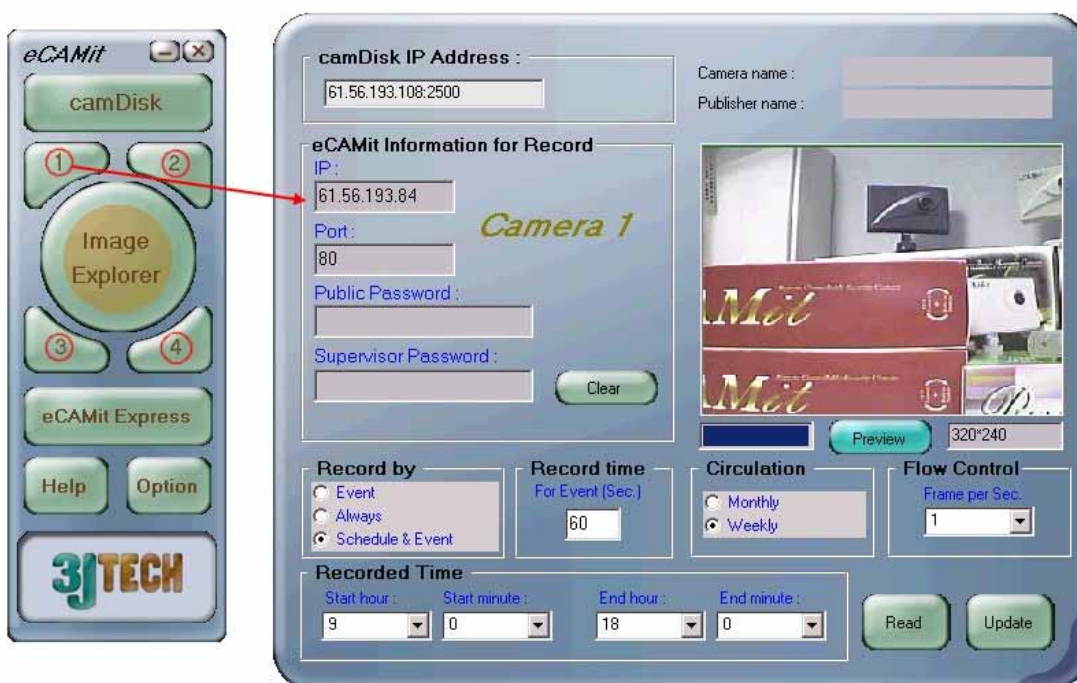


Figure 1.1.

6-4 Easy setup & Testing for camDisk with eCAMit III

Three types of recording file are provided as follows. You can select one type of recording files:

1. Event (camDisk will start recording when camera triggered with sending images)
2. Always (camDisk will start recording all the time)
3. Schedule & Event (camDisk will starting recording with setting time and wait for the images sending from triggered camera)

6-4-1 Event Recording

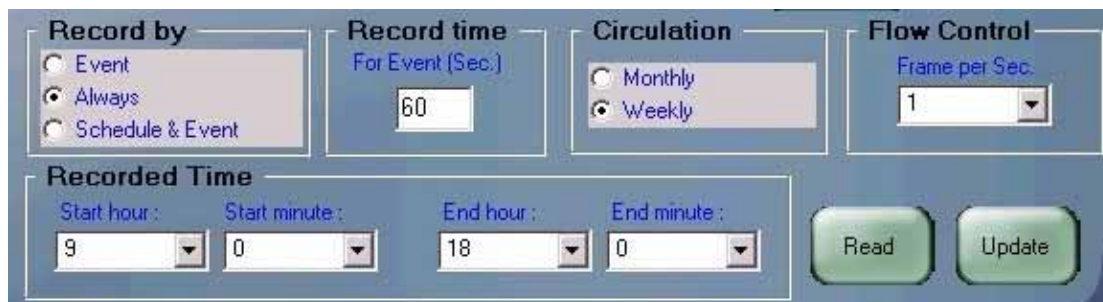
When Event is set as recording type for camDisk, you will have to setup the Record time. Images will be recorded with camDisk when camera is trigged. With the figure 1.2, recording time is set as 60 seconds. Circulation is the way of saving files circulatively. Files will be covered by monthly or weekly for economizing disk space. You can control the time interval (Flow Control) between camera and camDisk.



Figure 1.2

6-4-2 Always Recording

When Always is set as recording type for camDisk, camDisk will connect with camera immediately and start recording the images.



6-4-3 Schedule & Event Recording

When Schedule is set as recording type for camDisk, you have to assign the starting and ending for recording (Recorded Time). As Figure 1.3 shows that images will be recorded when camera is triggered during the time 09:00 AM~6:00 PM.

The screenshot shows a configuration panel with the following sections:

- Record by:** Radio buttons for Event, Always, and Schedule & Event (selected).
- Record time:** For Event (Sec.) input field with value 60.
- Circulation:** Radio buttons for Monthly and Weekly (selected).
- Flow Control:** Frame per Sec. dropdown menu with value 1.
- Recorded Time:** (Highlighted with a red box) Start hour: 9, Start minute: 0, End hour: 18, End minute: 0.
- Buttons:** Read and Update.

Figure 1.3