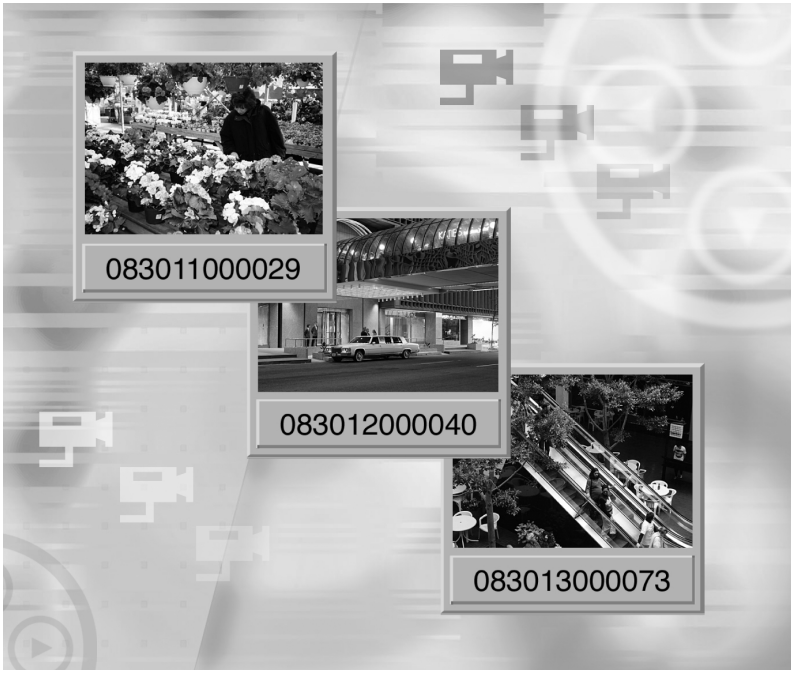
Panasonic

Network Camera Recorder

Operating Instructions

Model No. **BB-HNP60**



Please read this manual before using and save this manual for future reference.
In this manual, the suffix of each model number is omitted.

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- Do not use the CD-ROM in the CD player. The top volume played by the CD player may cause damage to the speaker.

System Requirements

PC (Personal Computer) must meet the following technical specifications to use Network Camera Recorder.

Item	Description	
Operating System	Microsoft® Windows® 98/SE Microsoft Windows 2000 Microsoft Windows Me Microsoft Windows NT® 4.0 Microsoft Windows XP (Home Edition and Professional)	
Specification of the PC (Recommendation)	**With 10 Network Cameras (Recommendation)**	**With 4 Network Cameras (Minimum Requirement)**
CPU	Pentium®4 1.8 GHz or greater	Celeron® 1.3 GHz or greater
Memory	256 MB or greater	128 MB or greater
Free area of a hard disk	20 GB or greater	10 GB or greater

Note

The above-mentioned conditions vary according to recording situations or system configuration.

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Section 1

Product Introduction

1.1 Main Features

Multi-Camera Recording (☞ page 67)

Network Camera Recorder can record the image from a Network Camera via the Internet and via a LAN/Intranet connection simultaneously. Multi-Camera Recording is also available.

Motion Detection Recording (☞ page 52)

Recording can begin automatically when motion is detected. This feature offers a more efficient means of recording.

Timer Recording (☞ page 54)

You can specify the day of the week and period of time for recording. Timer Recording can be used with Motion Detection Recording. The image in which the motion is detected will be recorded in the specified period of time.

AVI Motion Video File Creation (☞ page 71)

JPEG files can be converted to AVI files. This allows the files to be played back on other PCs or send via e-mail.

Camera Bar (☞ page 45)

The Camera Bar displays images of all active Network Cameras that are configured. This feature allows you to view multiple images simultaneously.

Playback feature (☞ page 56)

Network Camera Recorder can play back JPEG and MJP files of camera images controlling the playback speed.

Recorded-Image Searching (☞ page 58)

Recorded images can be searched for by their recording time.

Network Camera with preset positioning and zooming supported (☞ page 42 and page 43)

Preset positioning and zooming features of Panasonic Network Cameras (HCM series) are available for use.

Setting Hard Disk Capacity for Recording (☞ page 48)

A maximum hard disk capacity for recording can be set.

Automatic Backup (☞ page 49)

Recorded images can be backed up automatically at a specified time.

1.2 Network Camera Recorder Installation

1.2.1 Looking at Installation Procedure

You must perform the following steps to use Network Camera Recorder.

Read the End-User License Agreement. (☞ page 2)
You cannot install Network Camera Recorder if you disagree.
(The legal agreement is required when installing Network Camera Recorder.)

Install Network Camera Recorder. (☞ page 13)

Perform the user registration. (☞ page 18)
Without the user registration, the number of Network Cameras that can be configured are only four, and Network Camera Recorder cannot be used beyond the limitation of 30 minutes. Enter the registration code and the password.

Select the folder to save images. (☞ page 20)

Configure the Network Camera. (☞ page 33)

Use Network Camera Recorder.

1.2.2 Checking Included Accessories

The following items are provided.

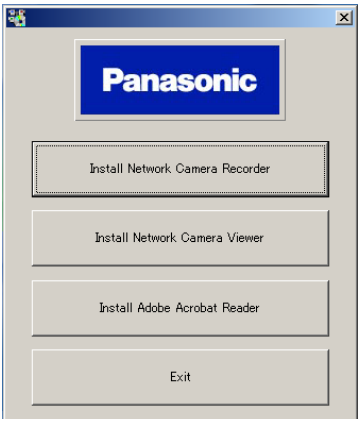
- CD-ROM — 1 pc.
- Operating Instructions — 1 pc.
- Registration code stickers* — 1 set (3 pc.)

* User registration requires registration code shown on registration code stickers. Affix the stickers to the case, the front or the back of Operating Instructions to remember registration code and password.

1.2.3 Installing Network Camera Recorder

1. Insert the CD-ROM to the CD-ROM drive.

- Installation Selection window automatically appears.

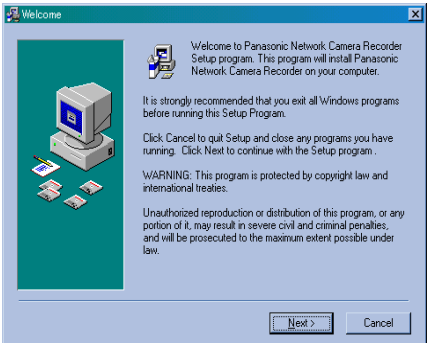


Notes

- If Installation Selection window does not appear, open "ncr" folder on the CD-ROM and double-click "ncrsetup_en.exe" file. Installation window appears.
- Clicking **[Install Network Camera Viewer]** starts installing Network Camera Viewer.
- Adobe® Acrobat® Reader® software allows you to read Operating Instructions on a PC. To install it, click **[Install Adobe Acrobat Reader]**.

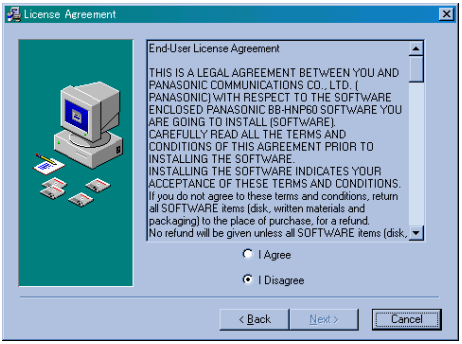
2. Click **[Install Network Camera Recorder]**.

- Installation window appears.



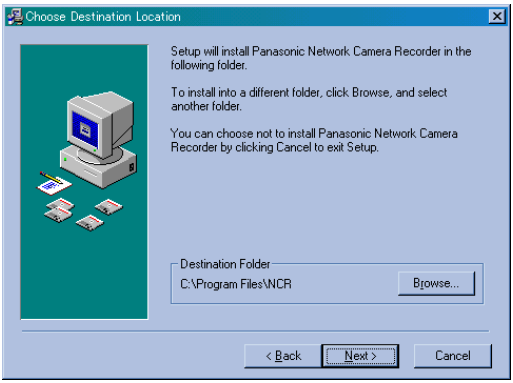
3. Click **[Next>]**.

- License Agreement window appears.



4. Check **[I Agree]** and click **[Next>]**.

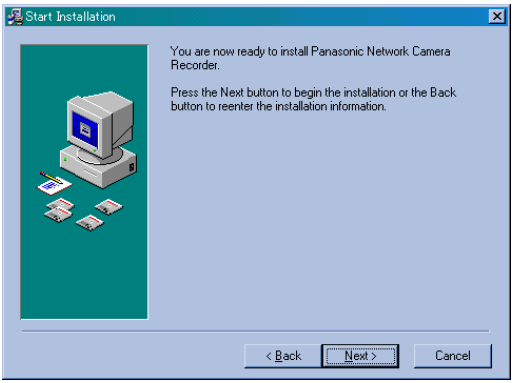
- Choose Destination Location window appears.



- Click **[Browse]** to change the destination folder and choose the destination.
- Confirm that the hard disk capacity is 600 MB or greater.
- The level of the folder-hierarchy depth must be within six to prevent the system from getting unstable.

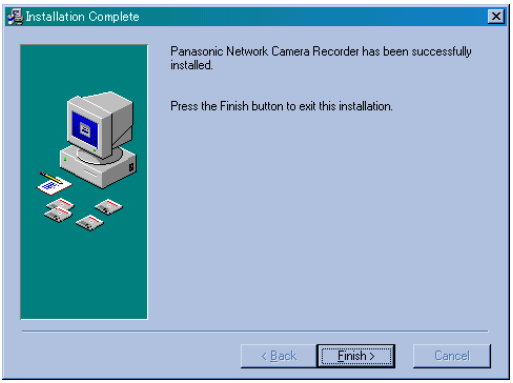
5. Click **[Next>]**.

- Start Installation window appears.



6. Click **[Next>]**.

- Installation Complete window appears.



7. Click **[Finish]**.
   - Installation has finished completely.
   - Network Camera Recorder Icon appears on the desktop.
8. Click **[Exit]** to close Installation Selection window.

1.2.4 Uninstalling Network Camera Recorder

If you do not need Network Camera Recorder, uninstall it.

1. Select **[Start]** → **[Program]** → **[NCR]** → **[Uninstall Panasonic Network Camera Recorder]**.
2. Follow the steps on the windows.

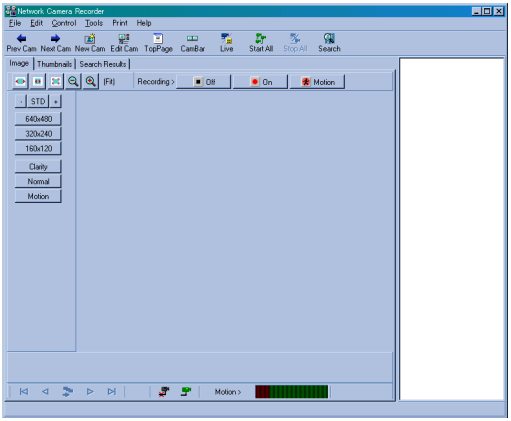
Note

When performing version upgrade of Network Camera Recorder, uninstall by checking **[Automatic]** before installing a new version. Camera definitions and recorded images will not be deleted.

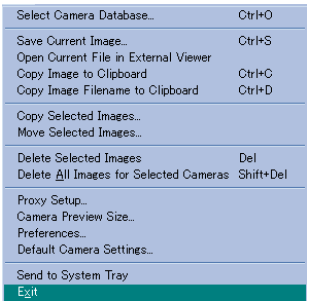
1.3 How to Start and Close Network Camera Recorder

1. Double-click the Network Camera Recorder Icon on the desktop.

- Network Camera Recorder screen appears.



2. Select **[File]** → **[Exit]** on the menu bar.



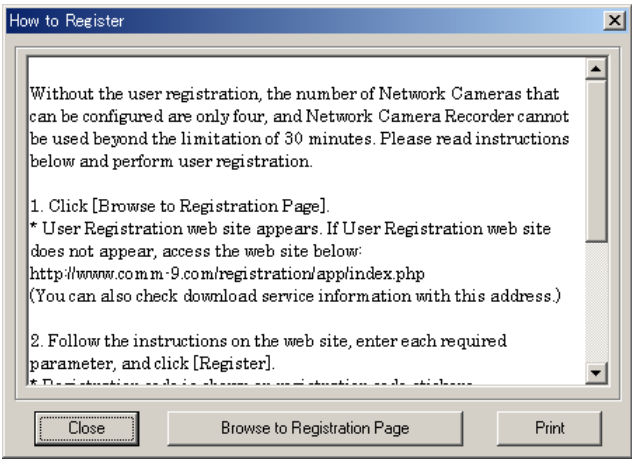
Notes

- Several Network Camera Recorders cannot be activated simultaneously.
- You can also start by selecting **[Start]** → **[Program]** → **[NCR]** → **[Panasonic Network Camera Recorder]**.

1.4 User Registration

Without the user registration, the number of Network Cameras that can be configured are only four, and Network Camera Recorder cannot be used beyond the limitation of 30 minutes. Operate the user registration entering the registration code and the password.

1. Start Network Camera Recorder and select **[Help]** → **[How to Register...]**.
   - How to Register window appears.

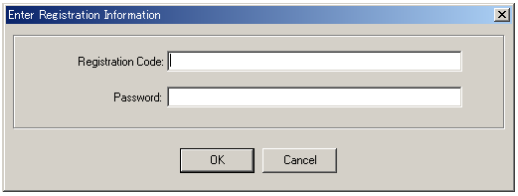


2. Click **[Browse to Registration Page]**.
   - User Registration web site appears.
3. Follow the instructions on the web site, enter each required parameter, and click **[Register]**.

   Notes
   - If User Registration web site does not appear, access the web site below: **http://www.comm-9.com/registration/app/index.php**
   - Registration code is shown on registration code stickers.
   - Make a note of the password to the registration code stickers. Password is required in Step 4, and is also sent by e-mail.

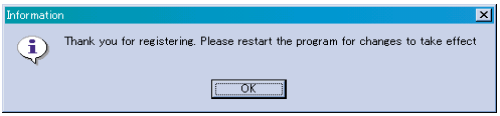
4. Select **[Help]** → **[Enter Registration Code...]**.

- Enter Registration Information window appears.



5. Enter the registration code and the password. Click **[OK]**.

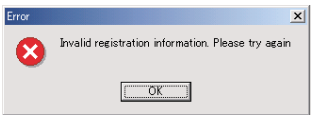
- Information dialog box appears.



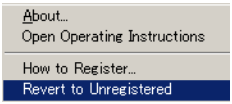
6. Click **[OK]** and restart Network Camera Recorder.

Notes

- When the registration code and password are wrong, Error dialog box appears. Reenter them correctly.



- **[Enter Registration Code]** at the **[Help]** menu turns to **[Revert to Unregistered]** when completing the registration. Select **[Revert to Unregistered]** to revert to the unregistered state.



1.5 Folder Selection to Save the Image

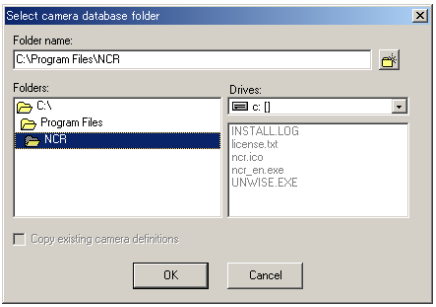
Network Camera Recorder can save images to the hard disk. It can also save images to the external memory device specifying the folder. You can configure new Network Cameras creating subfolders. (☞ page 33)

Notes

- If the folder is not specified, the folders are made for each Network Camera automatically and save images in the specified folder.
- When setting the Automatic Backup (☞ page 49), it is recommended to select a new folder to save images. Because all data in a specified folder is copied.

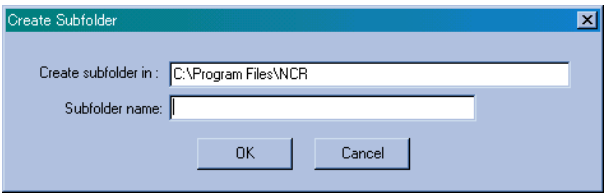
Creating a new folder

1. Start Network Camera Recorder and select **[File]** → **[Select Camera Database]** on the menu bar.
   - Select camera database folder window appears.



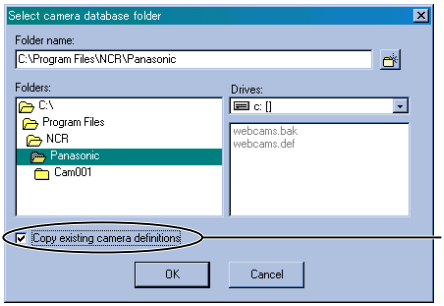
2. Select your destination drive and folder and click .

- button creates a subfolder under the selected folder.



3. Enter a new subfolder name and click **[OK]**.

- A subfolder will be created under the selected folder.



Once you configured Network Camera, check box appears. Checking it holds all the camera definitions (Camera Name, IP address, Camera Type and etc.) to the newly created folder.

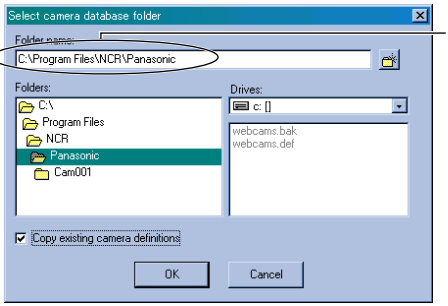
4. Click **[OK]**.

Notes

- When you monitor Network Camera or play back recorded images that is specified to the different folder, specify the same folder by selecting **[Select Camera Database]**.
- When having created a folder without checking **[Copy existing camera definitions]**, Network Camera must be registered newly. Refer to page 33 and page 34 to configure a Network Camera.

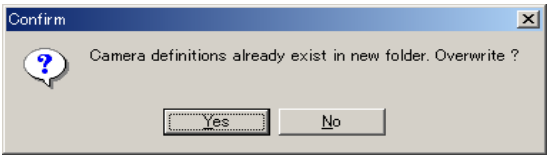
Selecting an existing folder

1. Select your destination drive and folder, and click **[OK]**.



The selected folder

2. When selecting the folder that already has a "webcams.def" file with **[Copy existing camera definitions]** checked, the following message appears.



3. Click **[Yes]** to overwrite camera definitions.

Notes

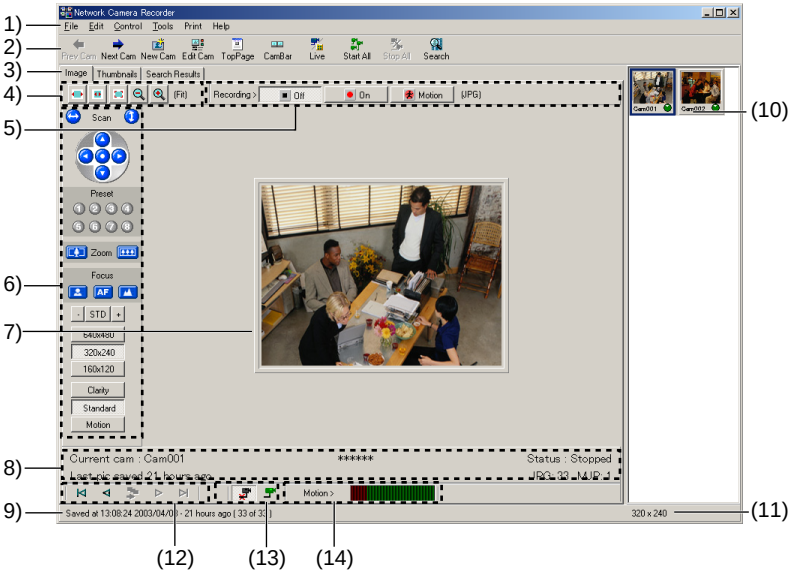
- Select a drive with 600 MB or greater hard disk capacity as your destination folder.
- The level of the folder-hierarchy depth must be within six to prevent the system from getting unstable.

Section 2

Network Camera Recorder Screen

2.1 Network Camera Recorder Screen

2.1.1 Using Image Page



(1) **Menu bar**

(2) **Toolbar buttons** (☞ page 26)

(3) **[Image]/[Thumbnails]/[Search Results] tab**

[Image] tab: displays Image Page.

[Thumbnails] tab: displays Thumbnails Page. (☞ page 29)

[Search Results] tab: displays searched images. (☞ page 30)

(4) **Window Size buttons** (☞ page 27)

(5) **Recording buttons** (☞ page 27)

(6) **Operation Bar** (☞ page 41)

(7) The window of a camera image

(8) Camera Name, the status of the Network Camera, the elapsed time from the last recording and the number of JPEG and MJP files. (☞ page 29)

(9)
- **When monitoring**
  Current date and time are displayed.
- **When staying stopped**
  Date and time of the last image are displayed.
- **When displaying JPEG file**
  Recorded date and time, the elapsed time and the number of JPEG files are displayed.
- **When displaying MJP file**
  Recorded date and time and the elapsed time are displayed.

(10) **Camera List** (☞ page 31)

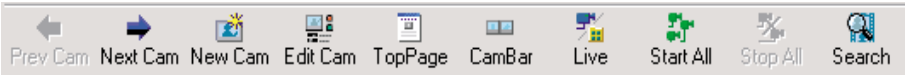
(11) Resolution is displayed. The file size is also displayed when viewing a JPEG file.

(12) **Playback buttons** (☞ page 28)

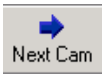
(13) **Connection buttons** (☞ page 28)

(14) **Motion Detection Meter** (☞ page 28)

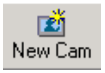
Toolbar buttons



[Prev Cam] displays the previous Network Camera.



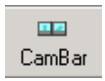
[Next Cam] displays the next Network Camera.



[New Cam] configures a new Network Camera. (☞ page 33)

[Edit Cam] changes the setting of a Network Camera. (☞ page 36)

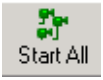
[Top Page] displays Top Page of a Network Camera.



[CamBar] activates the Camera Bar that allows you to monitor Network Camera even though Network Camera Recorder is minimized. (☞ page 45)

[Live] displays the still image from Network Cameras.

[Saved] displays the motion image from Network Cameras after clicking **[Live]**.



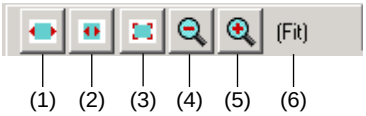
[Start All] starts monitoring all Network Cameras.

[Stop All] stops monitoring all Network Cameras.

[Search] searches for your recorded images. (☞ page 58)

Window Size buttons

Window Size Buttons adjusts the window size of Network Camera Recorder screen.



(1) Fits the image to the window size all the time.

(2) Adjusts the image to the window size.
If the window size is over actual image size, the image does not expand more than 100 %.

(3) Fits the image to the actual size. (100%)

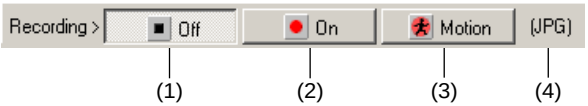
(4) Reduces the image for specified resolution. (75, 50 or 25%)

(5) Expands the image for specified resolution.(150, 200 or 300%)

(6) The display changes **[Percentage]**, **[Fit]** or **[Stretch]** by selecting Window Size buttons.

Recording buttons

Recording buttons start and stop recording or motion detection recording while monitoring.



(1) Stops recording. (☞ page 50)

(2) Starts recording. (☞ page 50)

(3) Starts Motion Detection Recording. (☞ page 52)

(4) Displays recording file format.

Note

Recording buttons are active only when monitoring Network Cameras. Recording cannot be operated when monitoring is stopped.

Playback buttons

Playback buttons play back recorded images. (☞ page 57)

(1) Displays a first image.

(2) Displays a previous image.

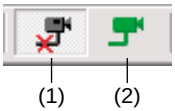
(3) Plays back recorded images. Click again to pause.

(4) Displays a next image.

(5) Displays a latest image.

Connection buttons

Connection buttons starts and stops monitoring the Network Camera. (☞ page 44)

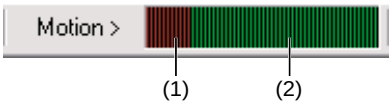


(1) Stops monitoring.

(2) Starts monitoring.

Motion Detection Meter

Motion Detection Meter displays a motion detection level on the Network Camera Recorder screen when a motion is detected.

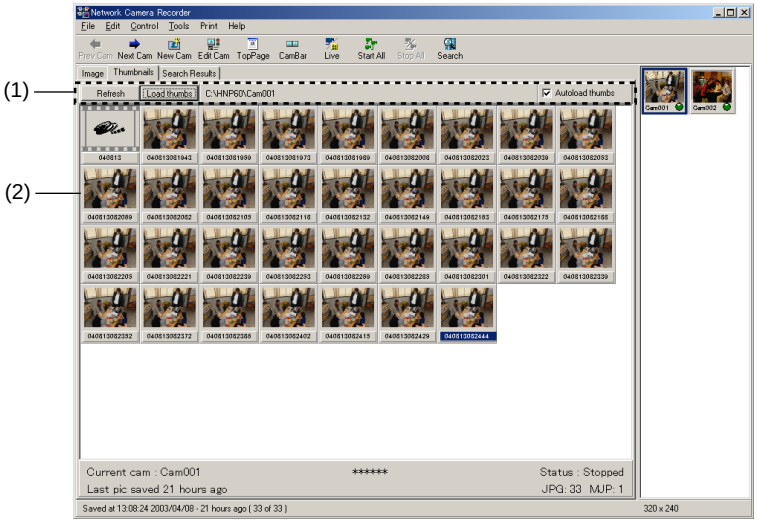


(1) Red level: No Recording

(2) Green level: Starts Motion Detection Recording.

- Click on the Motion Detection Meter to display Motion Detection Settings window. (☞ page 53)

2.1.2 Using Thumbnails Page



(1) **[Refresh]** refreshes latest recorded images on Thumbnails Page. The thumbnails disappear temporarily by clicking **[Refresh]**.

[Load Thumbs] loads recorded images and displays them.

Checking **Autoload thumbs check box** enables recorded images to be loaded automatically.

(2) A recorded image on display depends on its recording file format (MJP or JPG) as shown below.

MJP file

Displays date and time.
(e.g., March 27th 17:00)

MJP stands for a Motion JPEG file.

JPEG file

Displays the image.

Displays date, time, second and centisecond.
(e.g., September 2nd 15:33, 39.27 seconds)

2.1.3 Using Search Results Page

Search Results Page displays searched images as a result of searching for images. Refer to page 58 for searching for recorded images.

- Displaying search results with their filenames

Displays date and time. (e.g., April 8th 13:00)

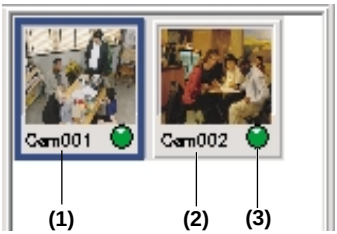
Displays date, time, second and centisecond. (e.g., April 8th 13:08, 20.69)

- Displaying search results with their time

Displays time.

2.1.4 Using Camera List

Camera List displays Camera Previews of configured Network Cameras.



(1) Camera Preview

The frame of the selected Camera Preview turns blue.

Camera Preview displays the current image in monitoring.

Camera Preview displays the latest image or recorded image when stopping monitoring.

Notes

- When the **[Disable current camera]** feature (☞ page 70) is used, the corresponding Camera Preview will darken.
- Camera Preview size in the Camera List can be changed. (☞ page 32)

(2) Camera Name

Camera Name changes its color.

- Red Camera Name shows Network Camera is prepared for recording.
- Green Camera Name shows Network Camera is prepared for performing Motion Detection Recording.
- Black Camera Name shows Network Camera is not prepared for recording.

(3) Lamp

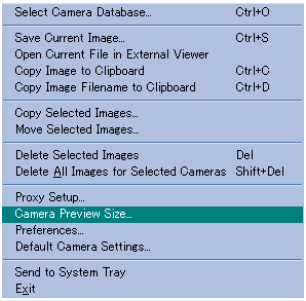
Green lamp shows Network Camera is monitoring.

Dark green lamp shows Network Camera is not monitoring.

Changing Camera Preview Size

Camera Preview size in the Camera List can be changed.

1. Select **[File]** → **[Camera Preview Size...]** on the menu bar.



2. Click your desired Camera Preview size. Camera Preview will be displayed with the selected size.

2.2 Network Camera Configuration

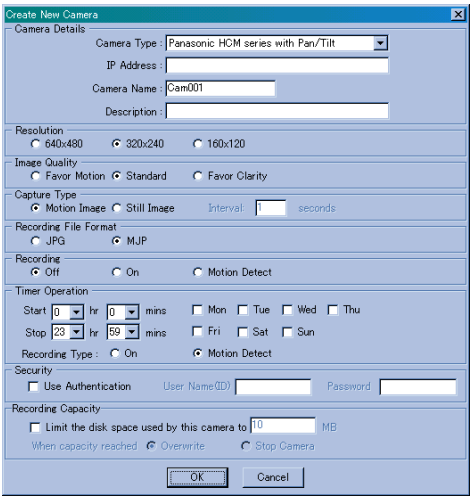
2.2.1 Configuring a New Network Camera

Before you can view or record images, each Network Camera must be configured within Network Camera Recorder.

- Specify a folder to save images (☞ page 20) before configuring a Network Camera.

Configuring a new Network Camera

1. Click **[New Cam]** or select **[Edit]** → **[Create New Camera]** on the menu bar.
   - Create New Camera window appears.



2. Set the parameters and click **[OK]**.
   - Camera Preview of Network Camera appear in the Camera List.

Instructions for the data fields

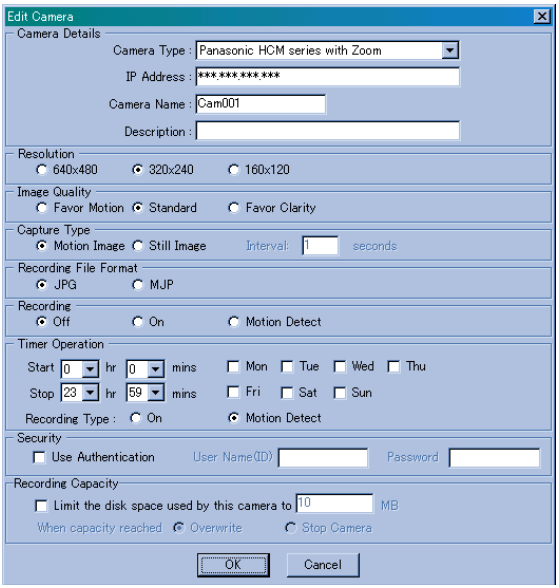
Camera Type	Select the Network Camera type (with Pan/Tilt feature, without Pan/Tilt feature or with zooming feature).
IP address	Enter the IP address of Network Camera. Enter "IP address (or domain name):Port number". (When port number is 80 [default], you do not need to enter port number.) • Enter the alphanumeric characters.
Camera Name	Enter Camera Name. • Maximum 250 characters including a path name of a folder • [\], [/], [:], [.], [;], [*], [?], ["], [<],[>] and [|] are not available.
Description	Enter the information of Network Camera. • Maximum 128 characters
Resolution	Select **640 x 480**, **320 x 240** (default) or **160 x 120**.
Image Quality	Select **Favor Motion**, **Standard** (default) or **Favor Clarity**.
Capture Type	Select **Motion Image** or **Still Image**. **Intervals** should be set over 0.5 seconds. • You may not monitor or record at the specified intervals depending on the recording situations.
Recording File Format	Select a recording file format. • **JPG** creates JPEG files. The number of continuous recorded images are limited. **MJP** is recommended when recording a motion image or still images at short intervals. • **MJP** creates an MJP file. MJP puts continuous JPEG files together every hour.
Recording	Select **Off**, **On** or **Motion Detect**.
Timer Operation	Set the date of recording. Select the date and a day of the week. If the setting time passes over midnight, check the day of start time. • Select **[On]** or **[Motion Detect]** for recording type. Images are recorded when detecting motions, when selecting **[Motion Detect]**.

Instructions for the data fields

Use Authentication	When you set security setting (authentication setting), check the box and enter user name (ID) and password. • Enter the alphanumeric characters. • 4 to 15 characters • [Space], ["], ['], [#], [&], [%], [=], [?], [<], [>] and [:] are not available.
Recording Capacity	The maximum value for recording capacity can be set. When the disk space used by Network Camera reaches your specified maximum value, you can **[Overwrite]** the recorded images or **[Stop]** Network Camera. When selecting **[Overwrite]**, older images will sequentially be deleted.

2.2.2 Editing the Network Camera

1. Select Camera Preview in the Camera List to edit and click **[Edit Cam]** or **[Edit]** → **[Edit Current Camera]** on the menu bar.
   - Edit Camera window appears.
   - Refer to page 34 for each parameter.

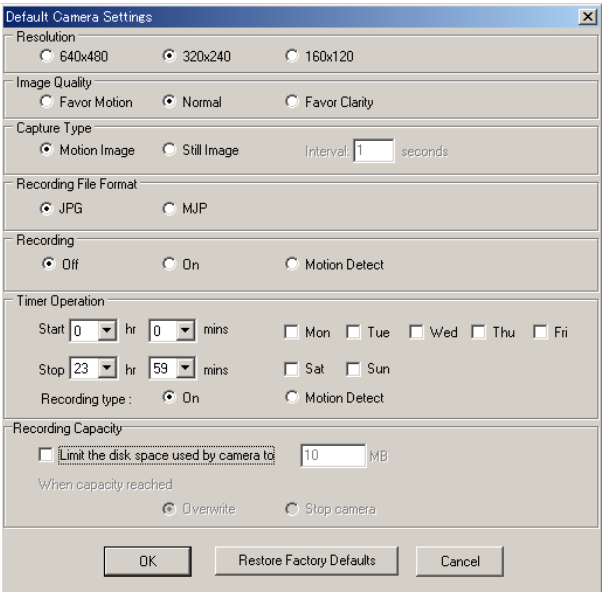


2. Edit the parameters and click **[OK]**.

2.2.3 Changing Default Camera Settings

Default camera settings can be modified. The settings here will be displayed as the default camera settings of newly configured Network Cameras.

1. Select **[File]** → **[Default Camera Settings]** on the menu bar.



2. Set each setting and click **[OK]**. Refer to page 34 for each parameter.

Note

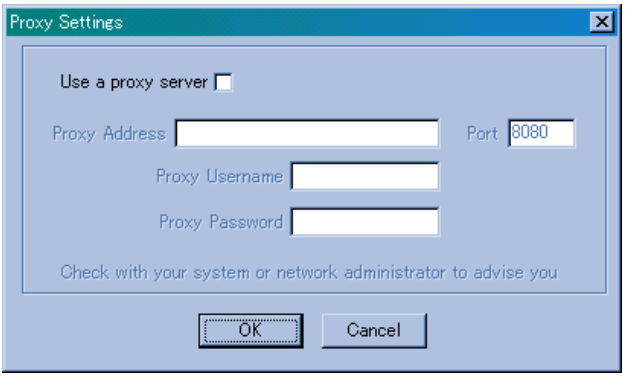
Click **[Restore Factory Defaults]** when restoring factory default settings.

2.2.4 Setting the Proxy Server

You need to set the following settings to monitor Network Camera on the Internet when you use a proxy server. (You cannot connect Network Camera without setting the proxy server.)

1. Select **[File]** → **[Proxy Setup]** on the menu bar.

- Proxy Settings window appears.



2. Check Use a proxy server and set. Click **[OK]**.

Instructions for the data fields

Proxy Address and Port	Enter IP address of the proxy server and port number. Enter them after consulting your administrator. • Enter the alphanumeric characters. (Enter the numeric character for port number.)
Proxy User Name and Proxy Password	Enter a proxy user name and a proxy password if you need. Enter them after consulting your administrator. • Enter the alphanumeric characters.

2.2.5 Deleting a Configured Network Camera

There are four kinds of methods to delete the configured Network Cameras.

(1) Delete the current displayed Network Cameras.

(2) Delete the selected Network Cameras.

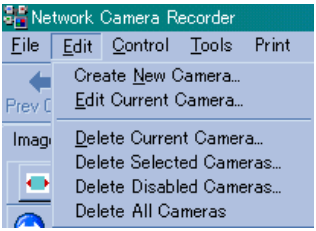
(3) Delete all disabled Network Cameras.

(4) Delete all configured Network Cameras.

1. Select Camera Previews in the Camera List to delete.

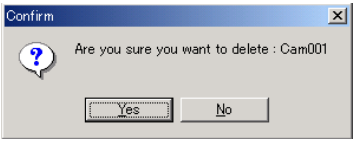
- To select several Camera Previews, click Camera Previews while pressing **[Shift]** key or **[Ctrl]** key.

2. Click **[Edit]** on the menu bar.

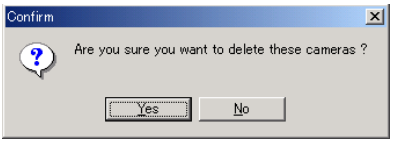


3. Select **[Delete Current Camera]** or **[Delete Selected Cameras]**.

[Delete Current Camera]



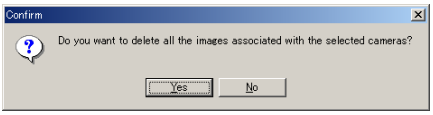
[Delete Selected Camera]



Notes

- Select **[Delete All Cameras]** to delete all configured Network Cameras.
- Select **[Delete Disabled Cameras]** to delete all disabled Network Cameras.

4. Click **[Yes]**. Confirmation dialog box appears.

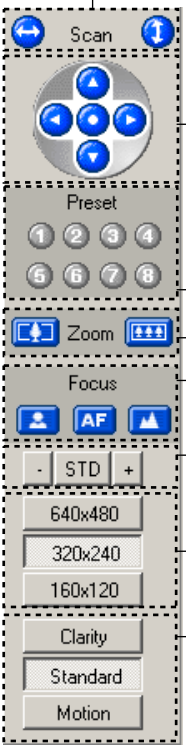


5. Click **[Yes]**.

- Network Camera Recorder deletes all recorded images of the selected Network Cameras.

2.3 Network Camera Monitoring

2.3.1 Using the Operation Bar



Pan/Tilt Scan buttons[*1] Pan/Tilt Scan buttons move the lens horizontally (left and right) or vertically (up and down) all over and the lens returns to the current position.

Horizontally Vertically

Pan/Tilt/Home Position buttons[*1] (Only the Network Camera with Pan/Tilt feature): Operates the direction of Network Camera.

Pan (: Left, : Right) Tilt (: Up, : Down)
Home Position (: Home Position)

Preset buttons[*1] (☞ page 42)

Zoom buttons[*1*2] (☞ page 43)

Focus buttons[*1*2] (☞ page 43)

Brightness: Brightness control has nine levels including STD (Standard).

[-]: Darkens the image. **[STD]:** Standard. **[+]:** Brightens the image.

Resolution: Selects resolution.

[640 x 480], [320 x 240] (default), **[160 x 120]**

Image Quality: Selects image quality.

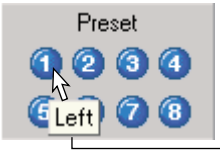
- **[Clarity]:** Optimizes the image quality (the motion will slow down).
- **[Standard]:** The standard performance (default).
- **[Motion]:** Optimizes the motion (The image will be not clear).

[*1] Buttons will not be displayed if **[Panasonic HCM series without Pan/Tilt]** is selected for Camera Type on Edit Camera window. They also cannot be controlled if **[Disable]** is selected on Camera Setup window in Network Camera.

[*2] Buttons apply only to Network Camera with zooming and focusing feature. They will be displayed when selecting **[Panasonic HCM series with Zoom]** for Camera Type on Edit Camera window. (☞ page 36)

2.3.2 Using Preset Buttons

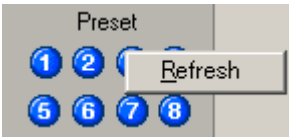
The preset buttons set in Network Camera can be used. Press a preset button on the operation bar to view the preset position at the center of the image field. Preset buttons allow you to move the lens to the positions set in Network Camera. Right-click a preset button and click **[refresh]** to gain its latest setting.



Put the cursor on the number for the preset name to appear.

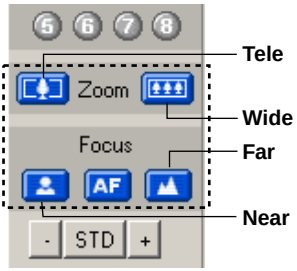
Notes

- A set-up preset button is displayed in blue.
- Gray preset buttons has not been set in Network Camera.
- When a preset or home positioning button is modified in Network Camera while Network Camera Recorder is used, the modification will not be reflected on it. Right-click a preset button and click **[refresh]** to gain its latest setting.



- The latest settings will be gained when restarting Network Camera Recorder.

2.3.3 Zooming and Focusing



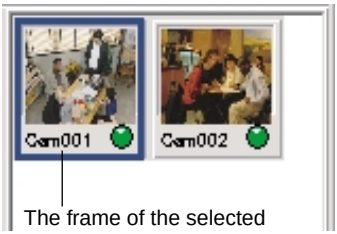
Zooming in and out (Only for Network Camera with zooming and focusing feature)
Zoom buttons increases or decreases the size of the object. Tele button zooms in (maximum 21x), and Wide button zooms out. Clicking the buttons allows you to zoom in or out the image by 10 steps.

Automatic and Manual Focusing
(Only for Network Camera with zooming and focusing feature)
Focus buttons adjust the focus. Network Camera has Automatic and Manual focusing features. Automatic focusing automatically allows the lens to focus on objects, and Manual focusing allows it to focus manually.

- Press the AF (Automatic focus) button when using the Automatic focusing feature. The Automatic focusing feature is recommended to use in most cases. Press AF button to switch the Manual focusing to Auto focusing.
- Press the Near or Far button to start Manual focusing.
  - Near button shortens the focal distance.
  - Far button lengthens the focal distance.

2.3.4 Monitoring the Network Camera

1. Click Camera Preview in the Camera List to select a Network Camera.



2. Click .

- Start monitoring Network Cameras.

3. Click to quit.

- Stop monitoring Network Cameras.

Notes

- Camera Preview size in the Camera List can be changed. (☞ page 32)
- When you select several Network Cameras, click Camera Previews while pressing a **[Ctrl]** key or a **[Shift]** key.
- When you monitor several Network Cameras, select several Network Cameras and select **[Control]** → **[Start Selected Cameras]** on the menu bar.
- When you monitor all Network Cameras, click **[Start All]** or select **[Control]** → **[Start All Cameras]** on the menu bar.
- When you stop monitoring several Network Cameras, select several Network Cameras and select **[Control]** → **[Stop Selected Cameras]** on the menu.
- When you stop monitoring all Network Cameras, click **[Stop All]** or select **[Control]** → **[Stop All Cameras]** on the menu bar.

2.3.5 Using Camera Bar

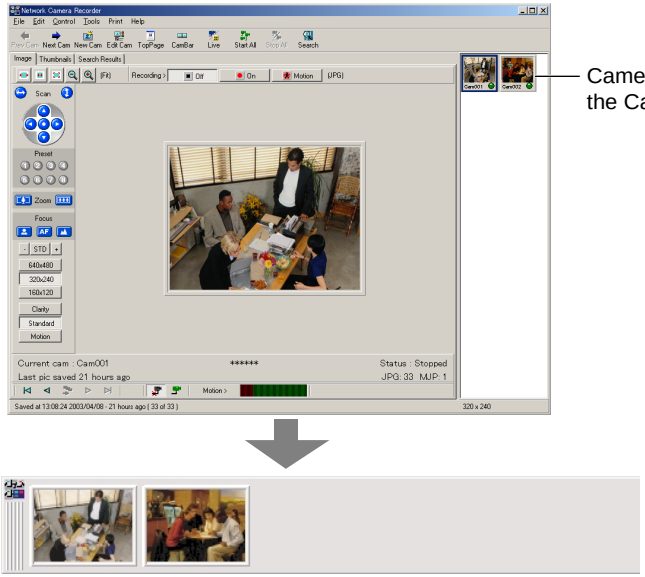
The Camera Bar displays images of all active Network Cameras that are configured. This feature allows you to view multiple images simultaneously. You can monitor Network Camera on the Camera Bar though you minimize Network Camera Recorder even if another application is in use.

Setting Network Camera on the Camera Bar

1. Click **[CamBar]**.

- Camera Bar appears.

2. Drag Camera Preview in the Camera List to the Camera Bar.



- Repeat Step 2 when you set other Network Cameras on the Camera Bar.

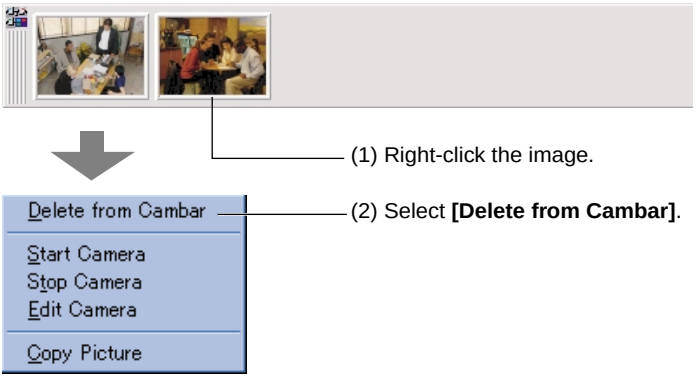
Notes

- The green frame on the Camera Bar means monitoring Network Camera.
- Click the image on the Camera Bar to display the image on the Network Camera Recorder screen.

Deleting Network Camera on the Camera Bar

- **Deleting selected Network Cameras**

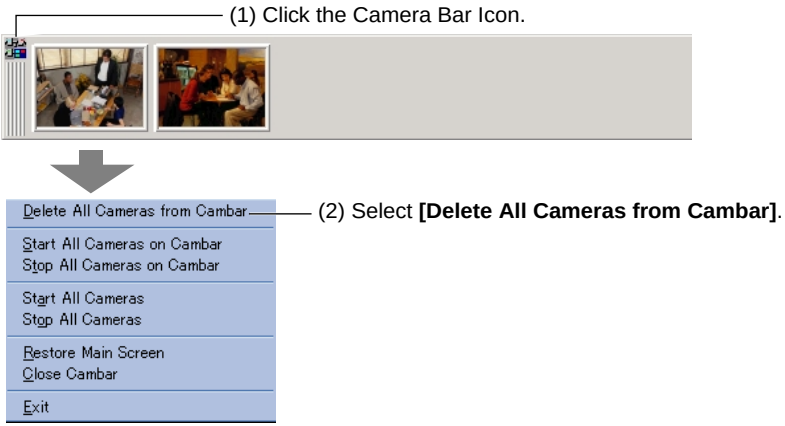
1. Right-click the image of Network Camera to delete on the Camera Bar and select **[Delete from Cambar]**.



- Camera Bar deletes the selected Network Camera.

- **Deleting all Network Cameras**

1. Click the Camera Bar Icon on the upper left corner on the Camera Bar.

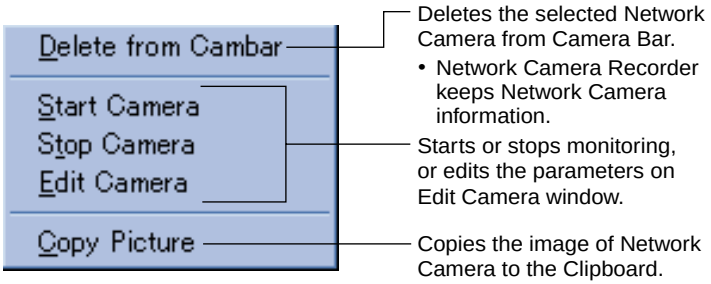


- Camera Bar deletes all Network Cameras.

Commands on the Camera Bar

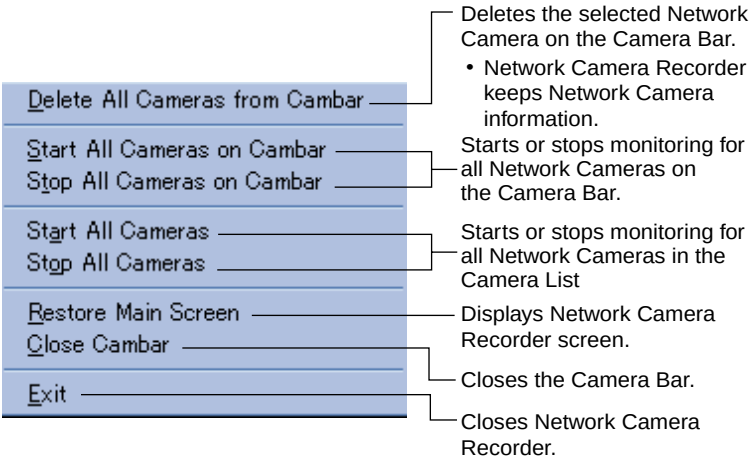
- **Commands for selected Network Camera**

  Right-click the image of Network Camera.



- **Commands for all Network Cameras**

  Click the Camera Bar Icon on the upper left corner on the Camera Bar.

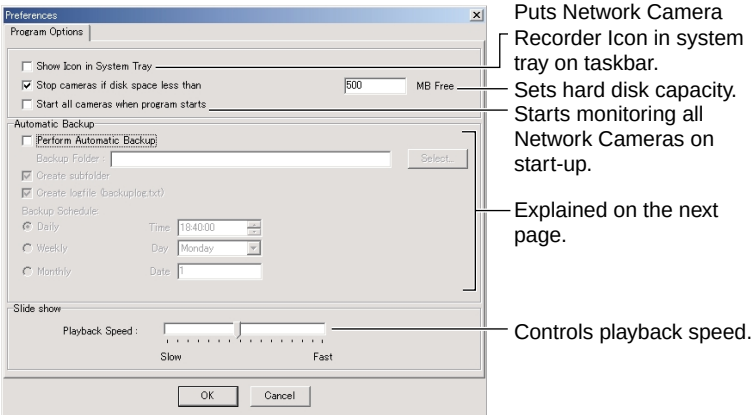


2.4 Network Camera Recording

2.4.1 Setting the Hard Disk Capacity

A maximum hard disk capacity for recording can be set.

1. Select **[File]** → **[Preferences]** on the menu bar.
   - Preferences window appears.



2. Set the lowest hard disk capacity to stop Network Camera Recorder.
   - We recommend you to set 500 MB or greater to prevent the PC from going down.
   - Confirm that **Stop cameras if disk space low** check box is checked.
3. Click **[OK]**.
   - The dialog box appears.

4. Click **[OK]** and close the window. Restart Network Camera Recorder.

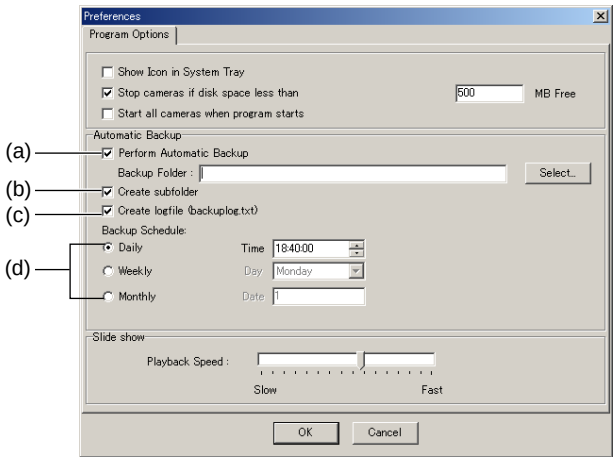
2.4.2 Backing up the Recorded Image

Recorded images can be backed up automatically at a specified time.

Notes

- When setting Automatic Backup, it is recommended to select a new folder to save recorded images. Because all data in a specified folder is copied.
- When setting Automatic Backup, Network Camera Recorder keeps on backing up images beyond the set-up hard disk capacity. Check the destination folder periodically. When the hard disk capacity is getting low, reduce the images and make room for newly recorded images.

1. Select **[File]** → **[Preferences]** on the menu bar. Preferences window appears.



2. Edit the parameters and click **[OK]**.

(a) Select your destination folder for backup. The level of the folder-hierarchy depth must be within six to prevent the system from getting unstable.

(b) When checked, a subfolder will be created in your backup folder. The subfolder is named with the backup date. A series of database will be copied to the subfolder. The database includes camera definition files and recorded images.

(c) A "backuplog.txt" file will be created. The file shows a list of start time, complete time, source and destination of files for backup.

(d) The date and time to backup images can be specified.

2.4.3 Recording the Network Camera

Network Camera Recorder records the images of Network Cameras.

1. Click Camera Preview in the Camera List to select Network Camera.
   - The frame of the selected Camera Preview turns blue.

2. Click to start monitoring Network Cameras.
3. Click **[On]** of Recording buttons.
   - Camera Name will be red.
   - Click **[Off]** of Recording buttons to quit.

Notes

- The number of JPEG files saved in a folder should be less than 10,000. Network Camera Recorder gets unstable if the number exceeds 10,000. The following table shows the amount of disk space consumed when 10,000 JPEG files are saved.

Resolution	Disk space consumed	File size per image
640 x 480	About 260 MB	About 26 KB
320 x 240	About 130 MB	About 13 KB
160 x 120	About 40 MB	About 4 KB

  * The file size varies depending on the image quality and object situation.
- To record images for a long time, it is recommended to select **[MJP]** for Recording File Format on Edit Camera window (☞ page 36).
- Recording is available for use while monitoring. Recording is unavailable for use while stopping monitoring.

- An MJP file size recorded at intervals of 0.5 second for an hour is as follows. The image quality is standard.

Resolution	File size
640 x 480	About 140 MB
320 x 240	About 67 MB
160 x 120	About 21 MB

* The file size varies depending on the image quality and object situation.

2.4.4 Motion Detection Recording

Recording can begin automatically when motion is detected. This feature offers a more efficient means of recording.

1. Click Camera Preview in the Camera List to select Network Camera.
   - The frame of the selected Camera Preview turns blue.

2. Click to monitor Network Cameras.
3. Click **[Motion]** of Recording buttons.
   - Motion Detection Recording starts.
   - Camera Name will be green.
   - Click **[Off]** of Recording buttons to quit.

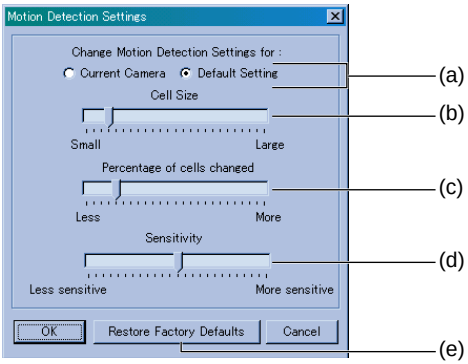
Notes

- Motion Detection Meter may not work properly depending on resolution, image quality and object situation.
- Motion Detection Recording is available for use while monitoring. Motion Detection Recording is unavailable for use while stopping monitoring

2.4.5 Changing Motion Detection Settings

Motion Detection Settings has two types; default setting and current camera setting.

1. Click Camera Preview in the Camera List to select Network Camera.
   - The frame of the selected Camera Preview turns blue.
2. Select **[Tools]** → **[Default Motion Detection Settings...]** on the menu bar.
   - Motion Detection Settings window is also accessible by clicking Motion Detection Meter.



3. Drag the slider to adjust and click **[OK]**.

(a) **[Default Setting]** is effective to all configured Network Cameras. **[Current Camera]** is effective only to the current displayed Network Camera. **[Default Setting]** does not have effect on Network Cameras that have settings on **[Current Camera]**.

(b) Set the cell size*. Smaller the cell size is, easier the tiny motion is to be detected.

(c) Set the percentage of cells to start recording. This setting determines the percentage of the red meter and the green meter of the Motion Detection Meter.

(d) Set the level of the sensitiveness to detect the motion.

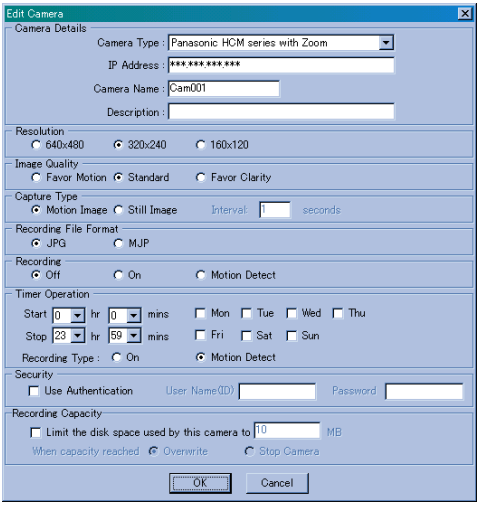
(e) **[Restore Factory Defaults]** on **[Default Setting]** window resets the settings to the factory default. **[Restore Default]** on **[Current Camera]** window sets the settings to those on **[Default Setting]**.

* Percentage of the divided cells activates the Motion Detection Recording.

2.4.6 Timer Recording

You can specify the day of the week and period of time for recording. Timer Recording can be used with Motion Detection Recording. The image in which the motion is detected will be recorded in the specified period of time.

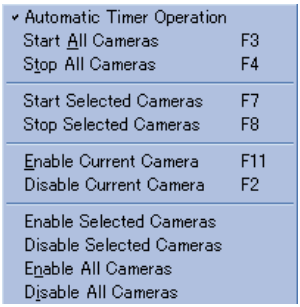
1. Click Camera Preview in the Camera List and select Network Camera.
   - The frame of the selected Camera Preview turns blue.
2. Click to stop monitoring Network Cameras.
3. Click **[Edit Cam]**.
   - You can also select **[Edit]** → **[Edit Current Camera]**.
   - Edit Camera window appears.



   - Refer to page 34 for each parameter.
4. Edit the parameters and click **[OK]**.

5. Select **[Control]** → **[Automatic Timer Operation]**.

- Check mark appears when the timer recording becomes effective.



- Network Camera Recorder starts monitoring and recording images automatically in the specified time.

Notes

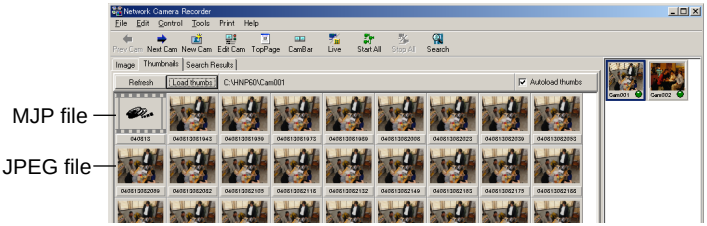
- Timer Recording for all Network Cameras stops by clearing the check mark by the **[Automatic Timer Operation]**.
- Timer Recording of the selected Network Cameras stops by clearing all of the day of the week check boxes of **Timer Operation** on Edit Camera window.
- Timer Recording stops by clicking **[Off]** while performing the Timer Recording. Click **[On]** or **[Motion Detect]** to perform Timer Recording again.

2.4.7 Playing Back the Recorded Image

Network Camera Recorder can play back JPEG and MJP files of camera images controlling the playback speed.

1. Click Camera Preview in the Camera List to select Network Camera.
   - The frame of the selected Camera Preview turns blue.

2. Click **[Thumbnails] tab** → **[Refresh]** → **[Load thumbs]**.
   - Displayed thumbnails of JPEG files.
   - When you check **Autoload thumbs** check box, the image will be loaded automatically.
   - Click **[Stop]** to quit. (**[Load thumbs]** changes to **[Stop]** while loading.)



3. Select a recorded image and double-click it.

When selecting an MJP file

The MJP file will be played back. Click to stop playing back. The file will be played back from the suspended image by clicking again.

Notes

- Make sure to click when stopping playing back an MJP file.
- Refer to page 60 for how to change the playback speed.

When selecting a JPEG file

Playback buttons can display recorded images.

displays a first image.

displays a previous image.

plays back recorded images.

- Click to pause. Click again to play back.

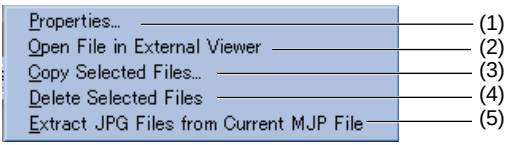
displays a next image. (If there is no next image, the latest image is displayed.)

displays a latest image. (The current image is displayed while monitoring.)

- When you play back recorded images, **[Live]** changes to **[Saved]** on the Toolbar buttons. Click **[Saved]** to restore to the current image.

Note

The right-clicking a recorded image displays the commands. The same commands can be selected in the **[File]** on the menu bar.



(1) Displays image information.

(2) MJP file:
Displays recorded images in the attached Network Camera Viewer. Select **[Install Network Camera Viewer]** on Installation Selection window. (☞ page 13)

JPEG file:
Displays recorded images in the attached Network Camera Viewer.

(3) Copies selected files. (☞ page 68)

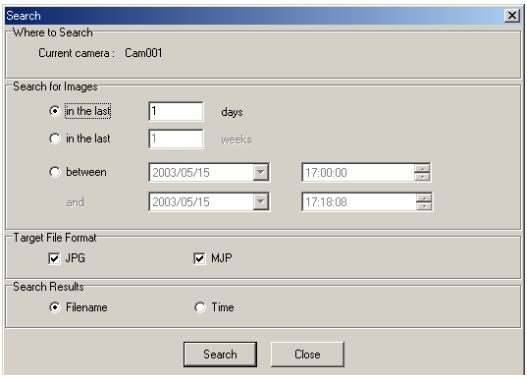
(4) Deletes selected files. (☞ page 61)

(5) Extracts JPEG files from an MJP file. (☞ page 59)

2.4.8 Searching for Recorded Image

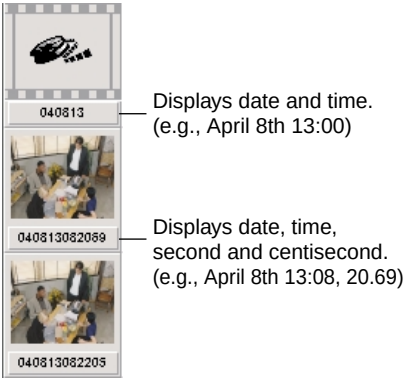
Recorded images can be searched for by their recording time.

1. Click Search, or select **[Tools]** → **[Search]** on the menu bar. Search window appears.



2. Set the parameters (period of time for searching/Image File type/Search Results) and click **[Search]**. A list of searched images appears.

When checking **[Filename]** for Search Results, recorded images will be displayed with their recorded filenames.



Displays date and time. (e.g., April 8th 13:00)

Displays date, time, second and centisecond. (e.g., April 8th 13:08, 20.69)

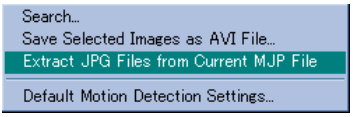
When checking **[Time]** for Search Results, recorded images will be displayed with their recorded time.

Displays time.

2.4.9 Extracting JPEG Files from an MJP File

JPEG files can be extracted from an MJP file.

1. Click **[Thumbnails]** tab. Thumbnail Page appears.
2. Select an MJP file to extract JPEG files.
3. Select **[Tools]** → **[Extract JPG Files from Current MJP File]** on the menu bar. Extracted images will be displayed on Thumbnail Page.



Note

Extracted JPEG files are displayed with a filename as shown in the right image.

e.g., March 27th 17:00-00001

2.4.10 Controlling Playback Speed

Network Camera Recorder can control the playback speed. You can also control while playing back recorded images.

1. Right-click .
   - The next window appears.

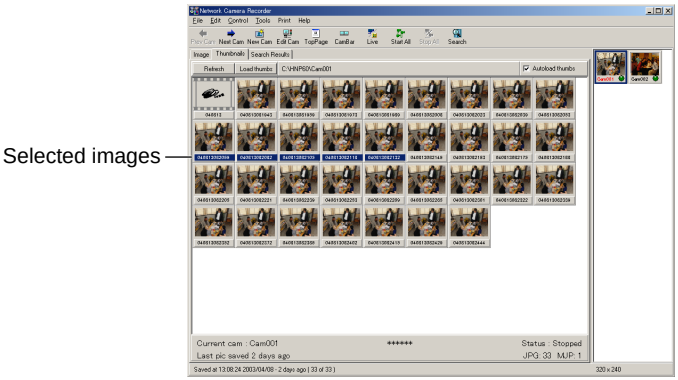
2. Drag the slider and control speed.
3. Click the close button.

2.4.11 Deleting the Recorded Image

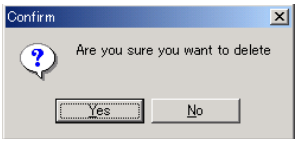
Deleting selected images

The unwanted images can be deleted.

1. Click Camera Preview in the Camera List to select Network Camera.
   - The frame of the selected Camera Preview turns blue.
2. Click **[Thumbnails] tab**.
   - Thumbnails Page appears.
3. Select recorded images to delete.
   - The selected images display the filename with outline characters on a colored background.
   - To select several images, click recorded images while pressing **[Shift]** key or **[Ctrl]** key.



4. Select **[File]** → **[Delete Selected Images]** on the menu bar.
   - The dialog box appears.



5. Click **[Yes]**.

Note

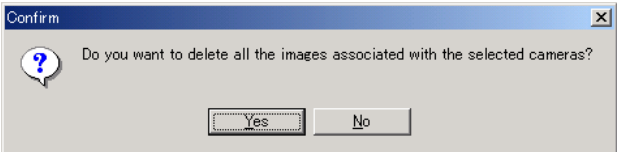
An MJP file cannot be deleted while playing it back or pausing it. Close Network Camera Recorder and restart it to delete the MJP file.

Deleting all recorded images

All recorded images of selected Network Camera can be deleted.

1. Click Camera Preview in the Camera List to select Network Camera.
   - The frame of the selected Camera Preview turns blue.

2. Select **[File]** → **[Delete All Images for Selected Cameras]**.



3. Click **[Yes]**.

Notes

- An MJP file cannot be deleted while playing it back or pausing it. Close Network Camera Recorder and restart it to delete the MJP file.
- No images are displayed when stopping monitoring. Click .

Section 3

Practical Operation

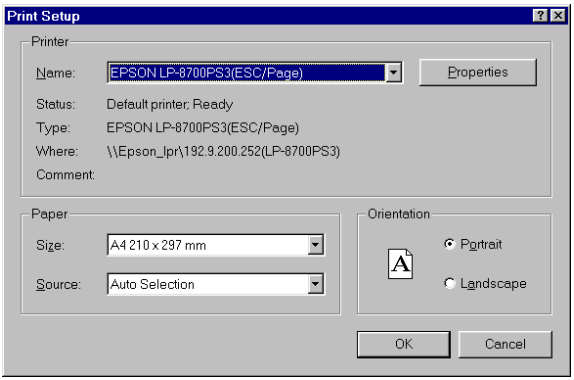
3.1 Printing the Recorded Image

Network Camera Recorder prints the current displayed image or recorded images.
Network Camera Recorder prints maximum 36 images per page.
An MJP file must be converted to JPEG files to print. (☞ page 59)

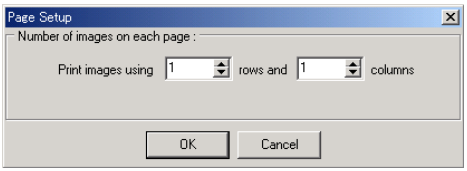
Print Setup

Print Setup window sets a printer and the number of images per page.

1. Select **[Print]** → **[Printer Setup]** on the menu bar.
   - Print Setup window appears.

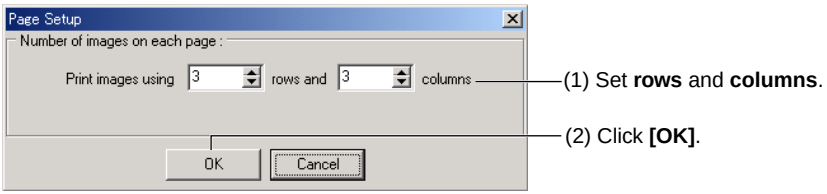


2. Set **Printer**, **Paper Size** and **Orientation**. Click **[OK]**.
3. Select **[Print]** → **[Page Setup]** on the menu bar.
   - Page Setup window appears.
   - The window shows printing one image per page.



4. Set the number of **rows** and **columns** to align recorded images per page. Click **[OK]**.

(E.g., Print nine images per page [three rows and three columns].)



- It is possible to set up to six rows and six columns. (Maximum 36 images)

Note

The page layout can be checked.

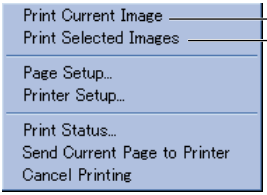
(1) Select **[Print]** → **[Print Status]**.

(2) Print Status window appears.

Printing

The specified contents on Page Setup window (☞ page 64) will be printed.

1. Select the current displayed image or recorded images to print.
2. Select **[Print]** → **[Print Current Image]** or **[Print Selected Images]**.

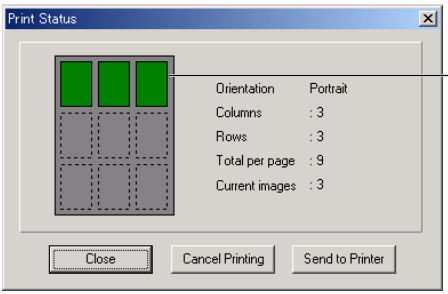


Print the current displayed image.

Print selected recorded images.
(you can select several recorded images.)

- When printing queue images meet the specified numbers per page set on Page Setup window, the page will be printed automatically.

3. Select **[Print]** → **[Print Status]** on the menu bar and confirm the specified contents.



The printing queue images will change color.
(E.g., When performing **[Page Setup]** to print nine images per page, specified to print three images.)

- When printing queue images do not meet the specified numbers per page set on Page Setup window, the images will be queued for printing.

4. Click **[Send to Printer]**.
   - Start printing recorded images.
   - Click **[Close]** to close Print Status window.
   - Click **[Cancel Printing]** to cancel printing queue images.

Notes

- **[Send to Printer]** on Print Status window is the same command as **[Print]** → **[Send Current Page to Printer]** on the menu bar.
- **[Cancel Printing]** on Print Status window is the same command as **[Print]** → **[Cancel Printing]** on the menu bar.

3.2 Multi-Camera Recording

Network Camera Recorder records the several Network Cameras simultaneously.

1. Select Network Cameras to record and click **[On]** or **[Motion]** to make recording ready for each Network Camera while stopping monitoring.
   - Camera Name will be red (Recording) or green (Motion Detection Recording).
2. Click Camera Preview in the Camera List to select Network Camera.

   Note

   When you select several Network Cameras, click Camera Previews while pressing a **[Ctrl]** key or a **[Shift]** key.
3. Select **[Control]** → **[Start Selected Cameras]** on the menu bar.
   - Network Camera Recorder starts recording the images of the selected Network Camera.
4. Select **[Control]** → **[Stop Selected Cameras]** on the menu bar to stop recording.

Note

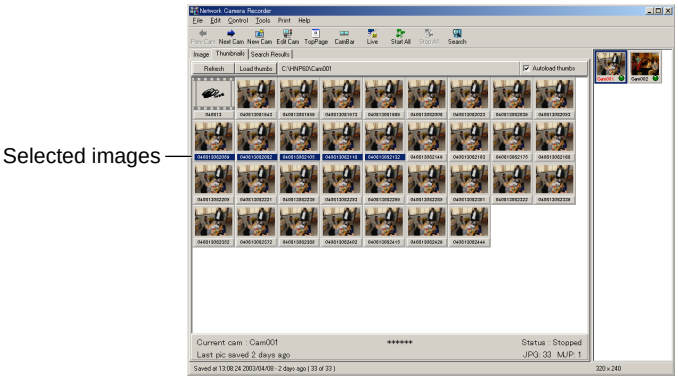
Network Camera Recorder can record all configured Network Cameras simultaneously.

1. Follow Step 1 on this page to make recording ready for all Network Cameras. All Camera Names will be red or green.
2. Click **[Start All]** or select **[Control]** → **[Start All Cameras]** on the menu bar. Network Camera Recorder start recording all images of the configured Network Cameras.
3. Click **[Stop All]** or select **[Control]** → **[Stop All Cameras]** on the menu bar to stop recording all images of the configured Network Cameras.

3.3 Copying or Moving the Recorded Image

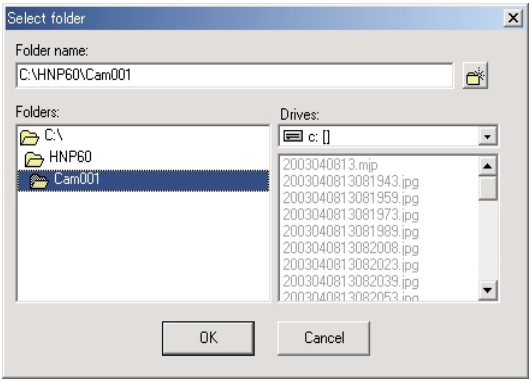
Network Camera Recorder can copy or move recorded images.

1. Click Camera Preview of Network Camera in the Camera List to copy or move recorded images.
2. Click **[Thumbnails] tab**.
   - Thumbnails Page appears.
3. Click recorded images to copy or move.
   - The selected images display the filename with outline characters on a colored background.
   - To select several images, click recorded images while pressing **[Shift]** key or **[Ctrl]** key.



4. Select **[File]** → **[Copy Selected Images]** or **[Move Selected Images]** on the menu bar.

- Select folder window appears.



5. Specify **Folder Name** and **Drive** and click **[OK]**.

- Confirmation dialog box appears if the specified folder does not exist.

6. Click **[Yes]**.

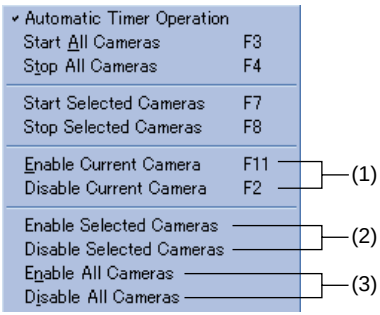
3.4 Enabling or Disabling the Network Camera

Network Camera Recorder allows you to temporarily enable or disable configured Network Cameras. This allows you to conveniently monitor or record Network Cameras of your choice.

1. Select the Network Cameras to enable or disable.

- To select several Network Cameras, click Camera Previews while pressing **[Shift]** key or **[Ctrl]** key.

2. Click **[Control]** on the menu bar.



(1) Sets the current displayed Network Camera to enable or disable.

(2) Sets the selected Network Cameras to enable or disable.

(3) Sets all configured Network Cameras to enable or disable.

3. Select one of the commands from (1), (2) or (3).

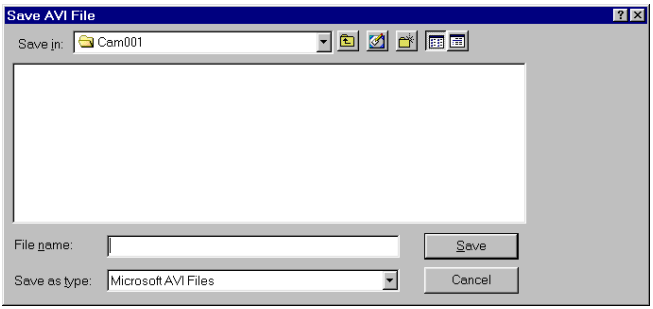
- The connection buttons will be grayed out by disabling Network Camera.

3.5 Creating AVI Motion Video Files

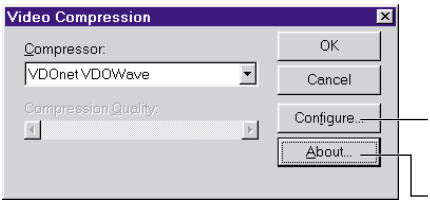
JPEG files can be converted to AVI files. This allows the files to be played back on other PCs or send via e-mail.

1. Click Camera Preview in the Camera List to select Network Camera.
   - The frame of the selected Camera Preview turns blue.

2. Click **[Thumbnails] tab**.
   - Thumbnails Page appears.
3. Click recorded images to select.
   - To select several images, click the JPEG files while pressing **[Shift]** key or **[Ctrl]** key. Be sure to choose over four JPEG files.
4. Select **[Tools]** → **[Save Selected Images as AVI File]** on the menu bar.
   - Save AVI File window appears.



5. Specify **[Save in]** and **[File name]** and click **[Save]**.



Sets the compression program. The window may be different depending on the operating system.

Click **[About...]** to display the version number of the compression program.

- The compression program varies depending on the operating system. Select a compression program that is installed on the PC.
- Compression quality specifies the compression ratio. (If the compression ratio is 100, the file size will be small, but the image quality will be low.

6. Click **[OK]**.

- If you click **[Cancel]**, the AVI file will be created. The created AVI file is not available because it is not compressed correctly.

Notes

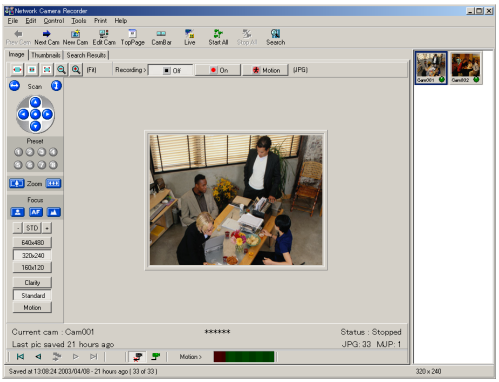
- When you play back the AVI file, you need the same compression program. Different compression program does not play back the AVI file.
- The following compression programs or the like are installed in standard Windows operating system.
  - Cinepak Codec by Radius
  - Intel® Indeo® Video R3.2
  - Microsoft Video1

3.6 Renaming and Saving the Image

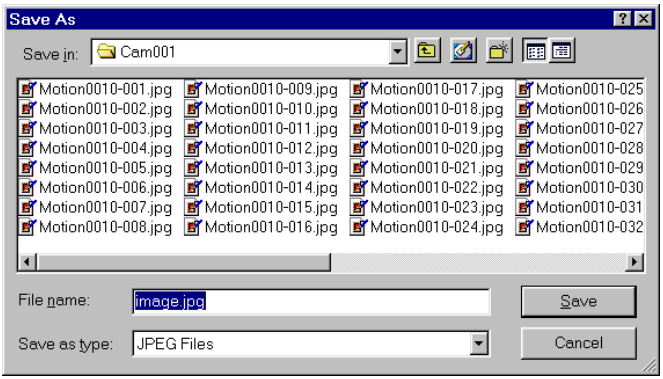
Network Camera Recorder can rename and save images.

1. Select a image to rename and save.

- The image can be one that is already recorded or one that is being displayed currently.



2. Select **[File]** → **[Save Current Image]**.

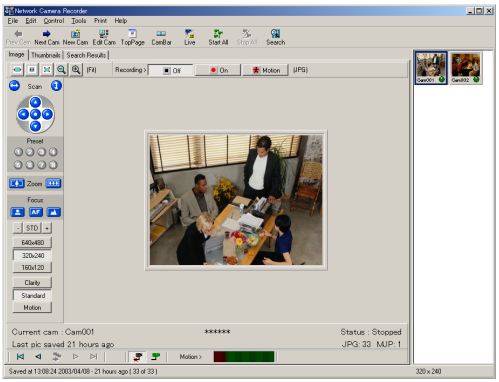


3. Specify a folder and a filename and click **[Save]**.

3.7 Copying to the Clipboard

Network Camera Recorder copies the image to the Clipboard.

1. Select a image to copy to the Clipboard.
   - The image can be one that is already recorded or one that is being displayed currently.



2. Select **[File]** → **[Copy Image to Clipboard]**.
   - The current displayed image will be copied to the clipboard. You can use this data in another application.
   - A filename can also be copied to the clipboard by selecting **[Copy Image Filename to Clipboard]**.

Note

The Clipboard is the place that keeps the copied or cut data temporarily.

3.8 Confirming the Version Information

Network Camera Recorder shows you the version information.

1. Select **[Help]** → **[About]**.

2. Click **[OK]** after confirming the version information.

Section 4

Default Setting and Troubleshooting

4.1 Default Setting List

Items		Factory Default value	When setting is necessary	Note
[Select Camera Database]	**Specified Folder**	C:\Program Files\NCR	When setting the specified folder	–
[Create New Camera]/ [Edit Current Camera]	**Camera Type**	Panasonic HCM series with Pan/Tilt	Depending on the Network Camera	–
	IP address	[Blank]	Indispensable	IP address consists of four decimal numbers (0 to 255). (E.g., 192.168.0.253)
	Camera Name	Cam*** (Network Camera Recorder assigns a number automatically in ***.)	Indispensable	Camera name is maximum 250 characters including the path name such as "C:\Program Files"[13 characters]. Camera name is attached to the folder name.
	Description	[Blank]	–	Maximum 128 characters
	Resolution	320 x 240	Indispensable	–
	Image Quality	Standard	Indispensable	–

Items		Factory Default value	When setting is necessary	Note
[Create New Camera]/ [Edit Current Camera]	**Capture Type**	Motion Image	Indispensable	Specify the interval for still image. Default is one second.
	Recording File Format	MJP	Indispensable	–
	Recording	Off	Indispensable	–
	Timer Operation	Start 0 h 0 min Stop 23 h 59 min	When using Timer Recording.	Check **[Automatic Timer Operation]** on the menu bar to timer-record.
	Day of the week	[No check]		
	Recording Type	Motion Detect		
	Use Authentication	[No check]	When using authentication of Network Camera.	Enter the same user ID and password of Network Camera.
	User Name (ID)	[Blank]		
	Password	[Blank]		
	Recording Capacity	[No check]	When limiting the hard disk capacity	When limiting the hard disk capacity, select [Overwrite] or [Stop camera] when the capacity reaches.
[Proxy Setup]	**Use a proxy server**	[No check]	When using a proxy server	–
	Proxy address	[Blank]		
	Port	8080		
	Proxy Username	[Blank]		
	Proxy password	[Blank]		

Items		Factory Default value	When setting is necessary	Note
[Preferences]	**Show Icon in System Tray**	[No check]	When showing the icon in System Tray	–
	Stop cameras if disk space less than	[Checked] Less than 500 MB Free	When limiting hard disk capacity	–
	Start all cameras when program starts	[No Check]	When starting all cameras when program starts	–
	Automatic Backup	[No Check]	When backing up recorded images	–
[Search]	**Search for Images**	In the last 1 day	When searching recorded images	–
	Target File Format	JPG and MJP are checked		
	Search Results	Filename		
[Installation]	**The destination folder**	C:Program Files\NCR	When installing Network Camera Recorder	–
[Page Setup]	**Rows and Columns**	One row and one column	When printing images	–

4.2 Troubleshooting

Problem	Cause and Remedy
Camera images are not displayed.	• Network Camera is not working. → Try to connect to Network Camera directly using a web browser. This will verify if Network Camera is working correctly. • Network Camera is turned off. → Turn on Network Camera. • The invalid IP address of Network Camera is set. → Set the available IP address on Edit Camera window. • The authentication is set for Network Camera. → Check **Use Authentication** check box and enter **User Name (ID)** and **Password:**. • The network is going down. → Confirm the network parameters of the PC. • The network congestion is interfering. → Network Camera Recorder may not display the images immediately. • The proxy server may prevent you from connecting directly to Network Camera. → Set the proxy settings on Proxy Settings window selecting **[File]** → **[Proxy Setup]** on the menu bar.
The images of Network Cameras on the Camera Bar does not appear.	• The images of Network Cameras are sticking out of the display. → Broaden the display of the Camera Bar.

Problem	Cause and Remedy
Network Camera Recorder configures only four Network Cameras and does not record over 30 minutes.	• User Registration is required. → Perform the user registration and enter a registration code and password. (☞ page 18)
Network Camera Recorder does not timer-record the images.	• **[Timer Operation]** is not set. → Set **[Timer Operation]** on Edit Camera window. (☞ page 54) • **[Automatic Timer Operation]** is not checked. → Timer-recording starts after being checked **[Automatic Timer Operation]** in the **[Edit]** on the menu bar. Check **[Automatic Timer Operation]**.
The taskbar button does not appear when minimizing Network Camera Recorder.	• The icon is displayed in the System Tray (The status area showing time and the like). → If you check Show Icon in System Tray check box on Preferences window selecting **[File]** → **[Preferences]** on the menu bar, the icon will be displayed in the System Tray.
Network Camera Recorder does not start.	• Network Camera Recorder has already started. → Confirm the taskbar. The icon may be displayed in System Tray (The status area showing time and the like).

Problem	Cause and Remedy
Pan/Tilt, Preset, Zooming or Focusing feature do not work.	• Network Camera is turned off. → Turn on Network Camera. • Network Camera Recorder is stopping monitoring. → Start monitoring of Network Camera. • Network Camera is without Pan/Tilt, Preset, Zooming or Focusing feature. → Select correct camera type on Edit Camera window (☞ page 36). • Pan/Tilt, Preset, Zooming or Focusing feature is locked at Network Camera. → Enable the Pan/Tilt, Preset, Zooming or Focusing feature of Network Camera. • Preset buttons of Network Camera are changed while operating Network Camera Recorder. → Right-click a preset button and click **[Refresh]**.
Zoom and focus buttons do not appear.	• Selected camera type is wrong. → Select **[Panasonic HCM series with Zoom]** on Edit Camera window (☞ page 36).
Network Camera Recorder is unstable or down.	• PC does not have enough memory. → Reduce the numbers of Network Cameras. → Close other applications. • More than 10,000 images are recorded in a folder. → Delete unnecessary images. (☞ page 61)
The PC does not play back the AVI file.	• The PC does not have the same compression program as you create the AVI file in. → Create the AVI file with the same compression program of the PC on which you play back.

Problem	Cause and Remedy
An MJP file cannot be deleted.	• The MJP file is now playing back or suspending temporarily. → Stop playing back the MJP file. Close Network Camera Recorder and restart it to delete the MJP file.

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Operating Instructions are subject to change without notice.

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