Software User Guide

For the safe use of your camera, be sure to read the Safety Precautions thoroughly before use.

Using These Manuals

The two manuals included are for your Camera.

1. Getting to know the usage of the camera

Camera User Guide (Printed manual)

This guide explains the usage and functions of the camera.You will also see how to install the provided software on your computer.

2. Getting to enjoy images on your computer

Software User Guide (This booklet)

This guide explains how to download images from the camera to your computer, and how to display and edit them on your computer.

How to Use the Software User Guide

Display examples:

The LCD Monitor Display examples may be different from actual display screens.

Terms:

In this guide, still images, movies, and sounds are all referred to as "images" or "files."

Symbols:

This guide uses the following symbols and conventions:

Important

Important

This indicates important notices and restrictions for using this camera.

Note

Note

This indicates supplementary explanations and useful tips about camera operations.

Reference

Refer to

This indicates page(s) relevant to a particular function. "p.xx" is used to refer you to pages in this manual.

Terms

Term

This indicates terms that are useful for understanding the explanations.

Contents

Chapter 1   Getting to Enjoy Images on Your Computer (For Windows)

Section 1   Downloading Images to Your Computer

Section 2   Displaying Thumbnail Images (How to Use DU-10)

Chapter 2   Getting to Enjoy Images on Your Computer (For Macintosh)

Section 1   Downloading Images to a Computer

Troubleshooting

Chapter 1
Getting to Enjoy Images on Your Computer
(For Windows)

Section 1
Downloading Images to Your Computer

This section explains how to display still images and movies you have downloaded to your computer.

Connecting the Camera to a Computer

After installing the software on your computer, connect your camera to it.

1. **Make sure the camera power is off.**

2. **Connect the USB cable to the USB port of your computer.**

3. **Connect the USB cable to the USB terminal of your camera.**

Your camera turns on.

For Windows XP

The first time you connect your camera to the computer using a USB cable, the [Found New Hardware Wizard] screen will appear.

1. **Select [Install from a list or specific location (Advanced)].**

2. **Select [Next].**

3. **Select [Search for the best driver in these locations.] - [Include this location in the search] and then press the [Browse] button.**
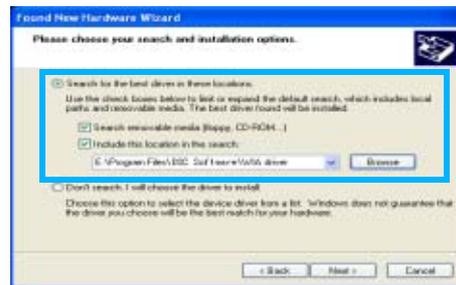
4. **Browse to the folder where the WIA driver was installed (by default this should be C:\Program Files\DSC Software\WIA driver) and then select [Next].**

The WIA Driver is installed.

The [DSC 724] screen is displayed.

5. **Select [DL-10], check [Always use this program for this action] check box, and then click [OK].**

- To load images from the camera with assistance from the Windows XP Scanner and Camera Wizard, select [Scanner and Camera Wizard].

- Leaving the [Always use this program for this action] check box unchecked will cause the [DSC 724] screen to be displayed each time you transfer images from the camera, thereby allowing you to choose whether to use DL-10 or the Scanner and Camera Wizard for image transfers.
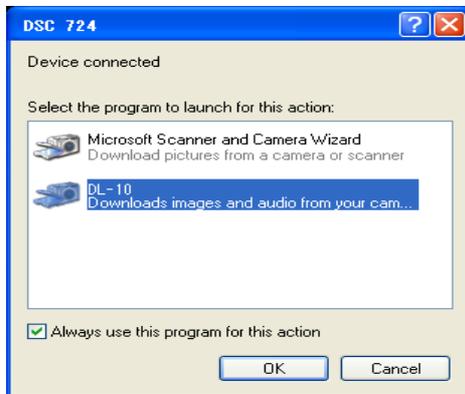
Note

- To disconnect the camera from your computer:

  1. Turn your camera off.

  2. Unplug the USB cable.

- It is recommended that you use the AC Adapter (sold separately) when you are downloading images from your camera.

Downloading Images to Your Computer

When you connect the camera to your computer, the images from the camera are automatically downloaded to the computer.

DL-10 is provided for downloading images.

> **Note**
>
> When no SD memory card is inserted, the camera loads from the internal memory; when an SD memory card is inserted, it loads from the SD memory card.

When no memory card is loaded	When an SD Memory Card is loaded
Loads from internal memory	Loads from the SD Memory Card

For Windows 98/98SE/Me/2000/XP

DL-10 automatically creates a folder called [Digital Camera] inside your [My Documents] folder. Downloaded images are saved in folders with the date of each shot, inside the [Digital Camera] folder.

1. **Connect the USB cable to the USB port of your computer.**

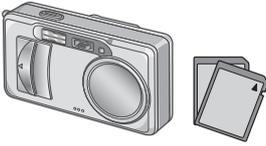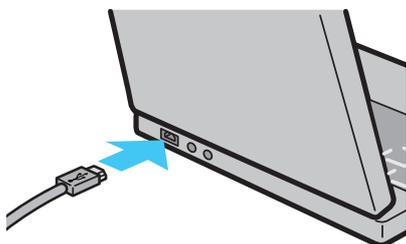*2.* **Connect the USB cable to the USB terminal of your camera.**
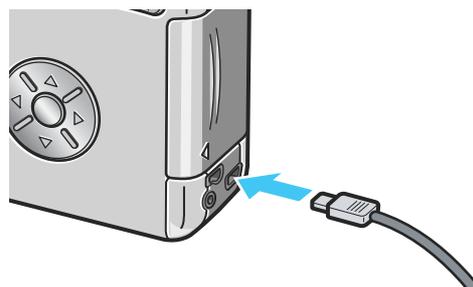
The camera turns on, DL-10 starts, and the DL-10 window appears.

Image transfer begins automatically.

> **Note**
>
> • Images are stored with sequential numbers so that they have unique file names.
>
> • File names given by the camera are not used.
>
> • Even when the storage folder is changed, the file number will be continuous. The number cannot be initialized.
>
> • When transferring images to a computer, if a file already exists with the same name in the destination folder, your image is renamed before saving to avoid overwrite problem.
>
> • When transferring images to a computer via DL-10, the files are assigned names like IMAG****.jpg (**** indicates the number of the image), even if SEQUENTIAL NO." is set to ON.

Once download finishes, DU-10 launches, and you can view the images.

If the screen below appears, select "DL-10", check the box next to "Always use this program for this action" and then press [OK].

Note

- Before closing DL-10, if you turn the camera power off, or unplug the USB cable, the DL-10 window is minimized and displayed as an icon on the Windows task bar. If you click the icon, the window will be displayed again.

- After exiting DL-10 by pressing the [MENU] button and selecting [Close], if you want to restart DL-10, select [Programs] from the [Start] menu then select DSC Software then DL-10.

- You can change the folder for downloading your images (Save Destination).

Reference

- For how to change the Save Destination Folder, see P.11.

- For how to start DL-10, see P.9

- For DL-10 screen, see P.9

How to Use DL-10

DL-10 is a software program to import images from the camera to a computer. By simply connecting the camera to your computer via a USB cable, images are automatically imported to the computer. On the DL-10 window, you can make various settings including auto-saving upon connection and the destination folder (where images will be saved).

Starting

DL-10 is already installed with DSC Software.

Connecting the camera to your computer automatically starts the software and begins downloading of images from the camera.

Quitting

To quit DL-10, follow either of the steps below.

- Click the [MENU] button on the DL-10 window and select [Quit] from the displayed menu (see "DL-10 Window").

- Right-click the DL-10 icon on the task bar and select [Quit] from the displayed menu.

Restarting

To restart DL-10 after quitting, follow the steps below.

- From the [Start] menu, select [All programs] (or [Programs]) → [DSC Software] → [DL-10].

The DL-10 Window

Once DL-10 starts up, the following DL-10 window appears on your computer screen.

1. [MENU Button]

   Click this and the following menu appears.
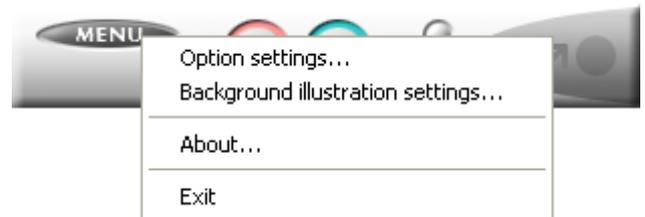
[Option settings]	Specifies where to save images, or which application to launch when you press the Application button and after saving. (P.11)
[Background illustration settings]	Changes the background design in the DL-10 window. (P.12)
[About]	Displays the version of DL-10.
[Quit]	Closes DL-10.

2. [Save Button]

   Click this and the images are downloaded from your camera.

> **Important**
>
> If the message indicating that "The camera is waiting to be connected... , Press the ADJ. button to initiate direct printing" appears on the camera LCD monitor, do not press the Save button.

3. [Application Button]

   The application registered in Optional Settings is launched. DU-10 is specified initially.

4. [Minimize Button]

   Minimizes the window and displays its icon on the Windows task bar. If you click on the icon, the window will be displayed again.

5. [Indicator]

   The [indicator] lights if the camera is connected via USB cable. When lit, if you put the mouse pointer on the [Indicator], it displays "Camera Connected." When your camera is not connected, the [Indicator] is grayed out, and if you put the mouse pointer on it, "Camera Connected" does not appear.

How to Use the Optional Settings

If you select [Option settings] from the menu displayed on a button in the DL-10 window, the [Option settings] dialog box appears.


	Item	Description	Initial Setting
1.	[Automatically save on connection]	If you check this box, once your camera is connected to the computer, images are automatically downloaded and saved. If you uncheck the box, your images will not be download automatically when you connect your camera to the computer. Click the [Save] button when you want to download.	Execute auto save
2.	[Destination folder]	Specifies which folder to save your images in. The [Digital Camera] folder inside [My Documents] is specified initially; if you want to change this, click the [Browse] button to display the dialog box and then specify the folder.	_____
3.	[Create folder]	Specifies how to create a folder. [Do not Create] Your downloaded images will all be saved in the folder specified in item 2. [For each date photographed] Creates a new folder assigning the date the images were shot as the folder name, and saves images shot on the same day in the same folder. For example, if shot on May 1, 2004: [20040501] folder [For each time saved] Creates a new folder for each time images are saved and saves the images shot at the same time in the same folder. If you save several times in one day, they are saved in separate folders each time. The name of the folder created is "Date, Underscore, and 3 digits sequence number". For example, if you saved twice on May 1, 2004: [20040501_001] folder, [20040501_002] folder	Each day shot.
4.	[The same image will not be saved.]	You can specify this only when you have selected either [Do not Create] or [Each Day Shot] in [Create a Folder] or if in [Create a Folder] you did not check [Do not save same image when saving]. Images imported once are not imported anymore.To allow the function to work properly, the camera's clock information must be set properly.	Do not save same image.
5.	[Application software settings]	Specify the name of the application you want to launch after you save.The DU-10.exe (the file name of DU-10) is specified initially; if you want to change this, click the [Browse] button to display the dialog box and then specify which application to use.	_____
6.	[Save and start application software]	If this is checked, an application will be launched after saving. If this is unchecked, no application will be launched.	After saving. Launch application.
7.	[Camera IP Address]	Not used by this model but used by other models of camera. For details, see the documentation that came with the camera.	0.0.0.0

How to Use the Background Illustration Settings

You can select a background for the DL-10 window from three types of patterns.

If you select [Background illustration setting] from the menu displayed by the [MENU] button in the DL-10 window, the [Background illustration settings] dialog box appears.
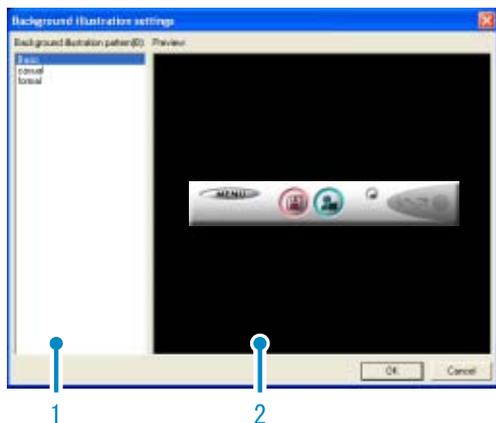
1. [Background illustration pattern]
   Select the pattern you wish to use from the three available.

2. [Preview]
   The pattern selected in [Background illustration pattern] appears, and you can configure it.

Downloading Images from an SD Memory Card

It is possible to download images from a memory card to computer via a PC Card Slot or Card Reader.

To load an SD Memory Card into a PC Card Slot or Card Reader, use the PC Card Adapter (sold separately).

Images in an SD Memory Card

Images are stored on an SD Memory Card in a hierarchy, as shown here.
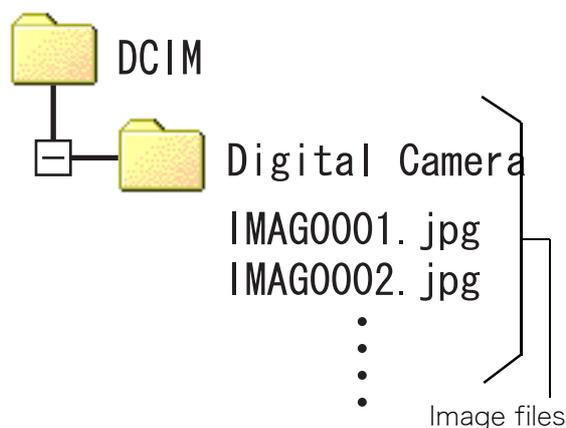
📝 **Note**

If the card reader is SD Memory Card compatible (directly loadable), no PC Card Adapter is required.

Terms

Card Reader

This is a device that connects to a computer and can read the contents of cards. In addition to the PC Card type, there are Card Readers compatible with various types of cards, into which you can directly load a memory card.

Section 2
Displaying Thumbnail Images (How to Use DU-10)

DU-10 allows the following edits and corrections on images downloaded to your computer:

- Listing
- Resizing
- Cropping
- Rotation
- Auto/manual correction
- Renaming a file
- Copying/Reduced copying
- Deleting
- Viewing image information
- Printing

This section explains how to use DU-10.

📝 **Note**

DU-10 runs in a Windows environment.

Starting and Quitting DU-10

There are two methods for starting DU-10:

- Auto Start from DL-10In the DL-10option settings, if the Application Software is set to DU-10, and if [After saving, launch Application software] is checked, DU-10 will start automatically after image files have downloaded from your camera with DL-10.

- Start from Windows [Start] menu Select [Program] then [DSC Software] then [DU-10] from the [Start] menu to start the software.

The DU-10 Window

Once you start DU-10, a window like the one below appears.

The images you saved are displayed all in one window. This method of displaying reduced size images is called thumbnail display.

Quitting DU-10

To quit DU-10 and close its window, select [File] from the menu bar, then select [Exit] from the menu displayed, or click the [X] (Close) button in the upper right corner of the screen.
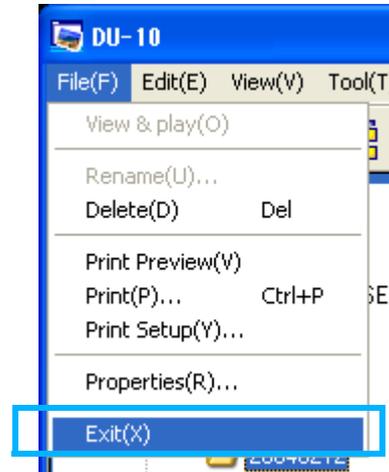
📝 **Note**

For how to set DU-10 so that it does not launch automatically, see P.9.

14

Thumbnail Display Description

Once you start DU-10, images appear as thumbnails.

1. **Menu Bar**
   You can change the display size and ordering of images.

2. **Tool Bar**
   Of the functions available in the menu, the icons of those most frequently used are displayed, so you can use those functions with just one simple click.

   Properties (see P.24)
   Displays image information.

   Open (see P.25)
   The Viewer screen opens to display selected images.

   Arrange (see P.16)
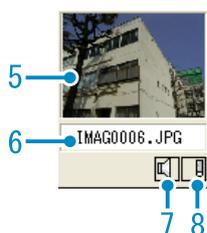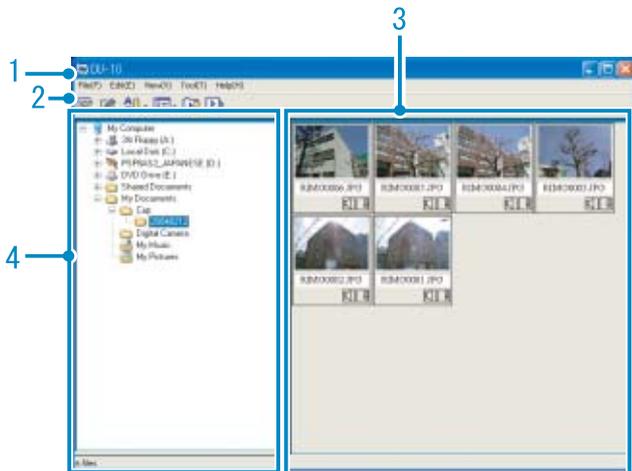   Images are rearranged according to the option selected from the menu.

   Display size (see P.17)
   Thumbnails are displayed in a size selected from the menu.

   Display all files below folder
   Selecting this option displays the images in all subfolders as thumbnails.

   Auto Slide Show (see P.19)
   In Auto slide show, all the images displayed as thumbnails appear in order.

3. **Thumbnail Display Area**
   The reduced images are displayed at one glance.

4. **Folder Display Area**
   The folders inside [My Computer] are displayed in a hierarchy. The images inside folders selected here appear in the Thumbnail Display Area.

5. **Thumbnail Image**

6. **File Name**

7. **Sound Setting Y/N Display**
   A yellow speaker icon is displayed for an image with sound.
   Double-clicking the speaker icon allows you to play back the sound.

8. **Memo Setting Y/N Display**
   A red pencil icon is displayed for an image with camera memo.
   Double-click the pencil icon to display the [Edit Memo] dialog box, where you can edit the camera memo.
   Note This Camera does not allow camera memos to be attached to images.

9. **Search Bar Area**
   By specifying a keyword, you can search images with corresponding camera memos and display them as thumbnails. This option is displayed only when the [Enable Camera Memo Function] check box is selected.

Switching the Ordering of Images

Displayed thumbnail images are ordered according to date (descending order).

You can change the ordering method to by file type or by name.

You can also choose whether each of the above is ordered according to ascending or descending order.

To rearrange images, select [Arrange] from the View menu or click the ![icon] [Arrange] icon on the toolbar.
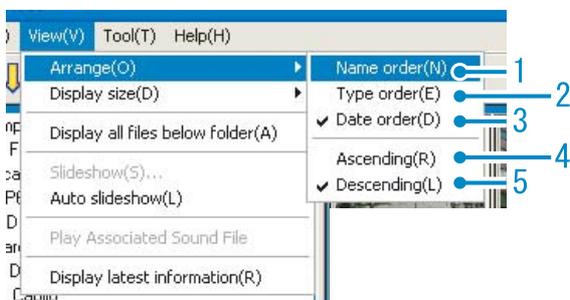
1. Name order
   Switches to By File Name.

2. Type order
   Switches to By File Type (in alphabetical order of the extension).

3. Date order
   Switches to By Date Shot (or By Date Updated if edited).

4. Ascending/ 5.Descending
   Ascending order is going from small to large, the opposite is descending order.
   For the alphabet, ABC is ascending order, and ZYX is descending.
   Select which order to use, 1, 2 or 3 and choose either ascending or descending order.

Note

If you order by file type, the files are ordered alphabetically according to the file extension.

Changing the Display Size

To change the display size, select [Display size] from the View menu or click the

 [Display size] icon on the toolbar.
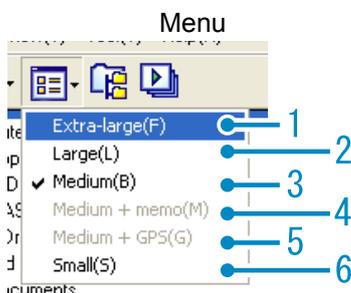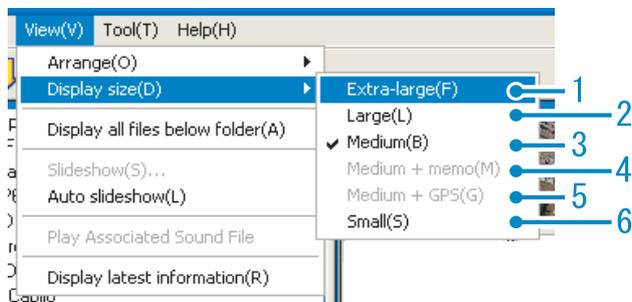
Menu
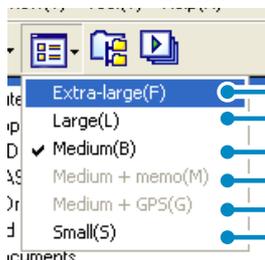
Tool Bar

You can change the display size to one of six sizes available.

1. Extra-large
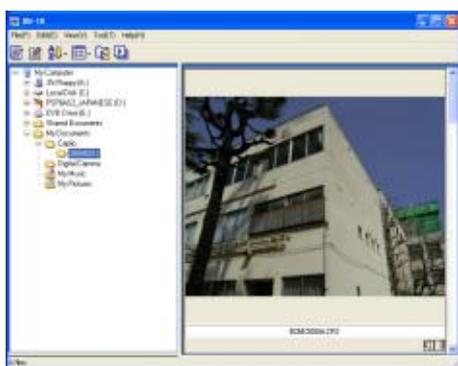
2. Large

3. Medium

4. Medium + memo
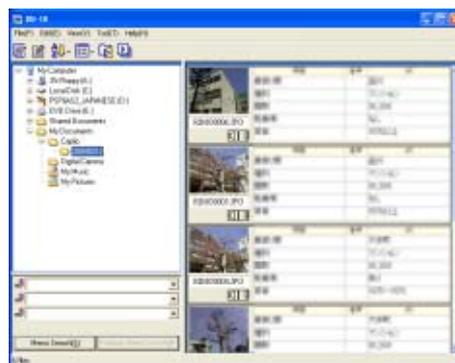
5. Medium + GPS
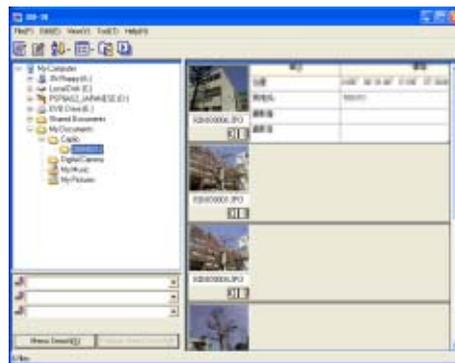
6. Small
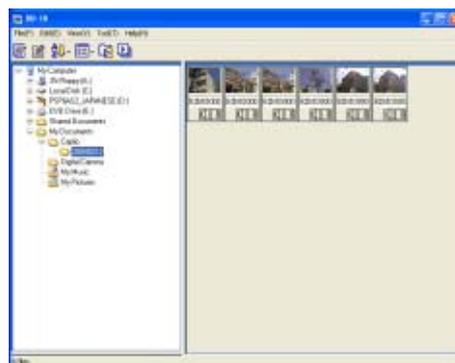
Note

Since this camera does not support the camera memo/GPS functions, the display sizes [Medium + Memo] and [Medium + GPS] are not available (disabled).
[Medium + Memo] and [Medium + GPS] can be selected when you are using another camera.
Note that [Medium + Memo] and [Medium + GPS] can also be enabled.

Viewing Images in a Slide Show

You can view images sequentially and automatically in either a slide show (selected images only) or auto slide show (all images).

To View a Slide Show

You can select one or more images and display them as a slide show.

To start slide show, follow the steps below.

1. Select the images you wish to see in slide show.

If you want to select multiple consecutive images, after clicking the first image, press and hold the [Shift] key and click the last image.

To select multiple images that are not consecutive, press and hold the [Ctrl] while clicking each.

2. Using one of the steps below, select [Slideshow].

- Select [View] then [Slideshow] from the menu bar.

- Place the pointer of the mouse on one of the images you selected, right click and choose [Slideshow] from the menu.
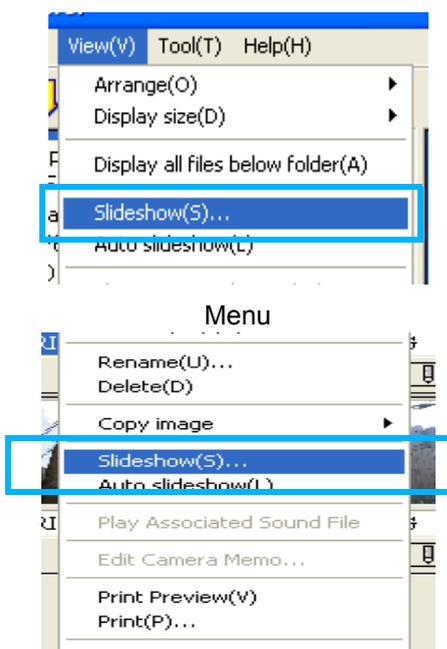
Menu

Shortcut menu displayed with right click

3. The [Slideshow] dialog box is displayed, so make the necessary settings.
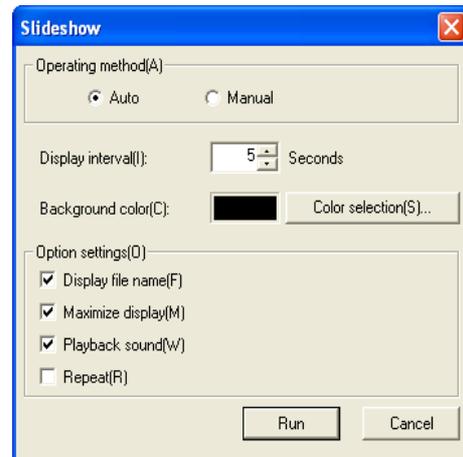
4. Click the [Run] button.

The slide show begins.

Running a slide show

Type of slide show	Key	Function
[AUTO] is selected in step 3.	[ESC] Key	Stops the slide show.
[MANUAL] is selected in step 3.	[ESC] Key	Stops the slide show.
	Left-click Mouse [Space] Key [Enter] Key [→] Key	The next image is displayed.
	[Backspace] Key [←] Key	The previous image is displayed.

Using Auto Slide Show

In Auto slide show, all the images displayed as thumbnails appear in order.

To start Auto slide show, follow the steps below.

1. **Using one of the steps below, select [Auto slideshow].**

- Select [View] then [Auto slideshow] from the menu bar.

- Place the pointer of the mouse on one of the images you selected, right click and choose [Auto slideshow] from the menu.

The slide show begins.

The images advance automatically according to the display interval (number of seconds) you specified in the [Slideshow] dialog box.

Stop the slide show with the [Esc] Key.

Note

- To automatically switch between images while viewing an auto slide show, select [Auto] in [Operating method] in the [Slideshow] dialog box.

- When [Manual] is selected in [Operating method], switch between images by pressing the [Enter] key or clicking on images in auto slide show.

How to Use the Slide Show Dialog Box

You can make slide show display settings in the [Slideshow] dialog box.
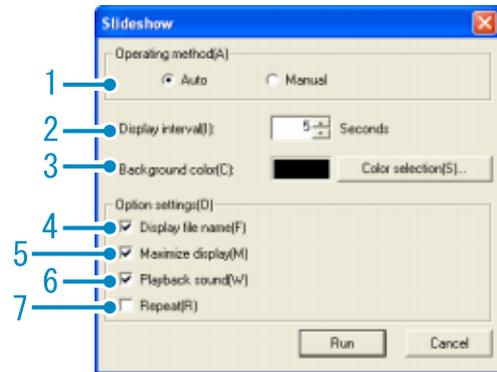
1. [Operating method]
   Select either Auto slide show (the slides are played automatically, in order) or Manual (switch frames by clicking the mouse button or pressing the [Enter] key).

2. [Display interval]
   Specify how long in seconds to display each image, when using Auto slide show.

3. [Background color]
   Choose a background color for your images. Click the [Choose Color] button and choose a color from the dialog box that appears.

4. [Display file name]
   If you check this box, the file name will appear in the bottom of the image.

5. [Maximum display]
   If you check this box, your images will be displayed at full-screen size.

6. [Playback sound]
   If you check this box, and the images have associated sounds, the sounds will also be played back.

7. [Repeat]
   If you check this box, the sets of images will be shown repeatedly, until you press the [Esc] key to stop. If you uncheck this box, the images in the folder will be displayed through the cycle once, then the slide show will finish.

Playing Back the Sound Recorded with an Image

You can play the sound associated with an image that was shot with a camera function such as [Image With Sound].

To Play Back the Sound Recorded with an Image

1. **Select the image with which the sound is associated.**

2. **Using one of the steps below, select [Play Associated Sound File].**

- Select [View] then [Play Associated Sound File] from the menu bar.
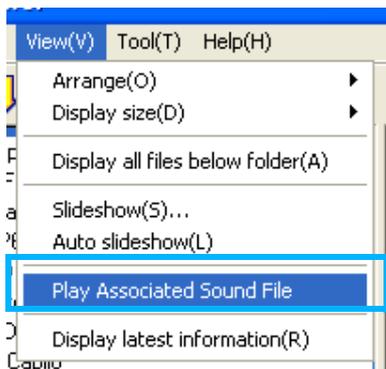
- On the image you selected, right click and choose [Play Associated Sound File] from the menu.
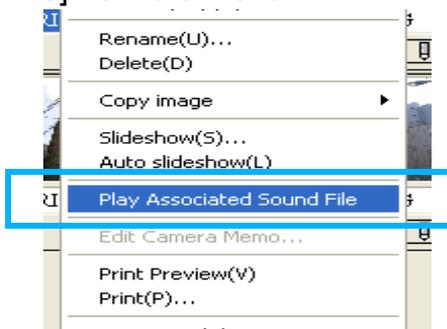
Refreshing the View

If the current screen is not up-to-date after the folder contents are modified, follow the procedure below to refresh the screen.

1. **Select [View] then [Display latest information] from the menu bar.**
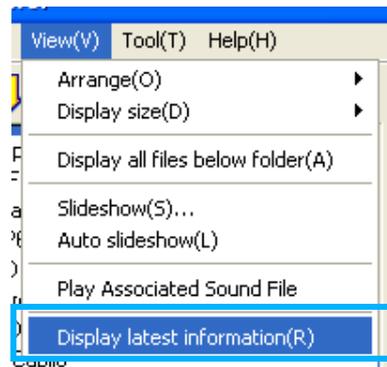
Renaming an Image

You can rename an image shown on the Thumbnail Display screen.

How to Rename an Image

To rename an image shown on the Thumbnail Display screen, follow the steps below.

1. **Select an image you want to rename.**

2. **Using one of the steps below, select [Rename].**

- Select [File] then [Rename] from the menu bar.
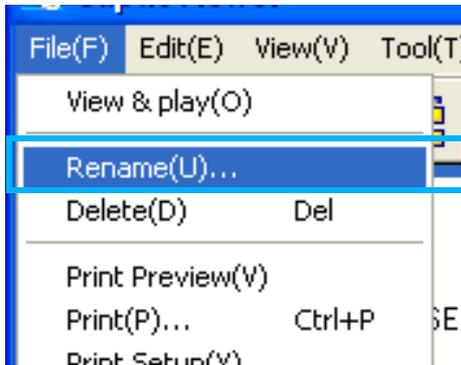
- On the image you selected, right click and choose [Rename] from the menu.
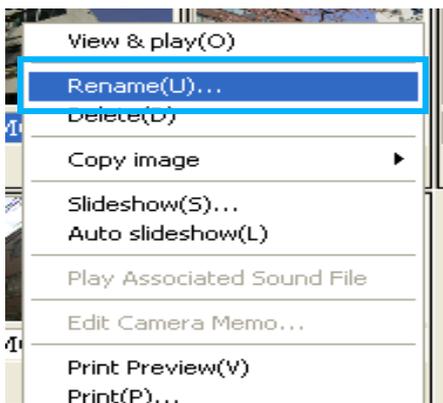
3. **When the [Rename] dialog box appears, enter the new name for the image.**
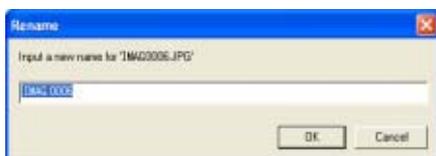
4. **Click the [OK] button.**

Renaming Image Files in Batch (Sequential Rename)

Several image files can be renamed together.

You can give file names of the following format:

Spring_0001.JPG

Prefix characters

Underscore

Sequence number with the specified digits
The start number can be specified.
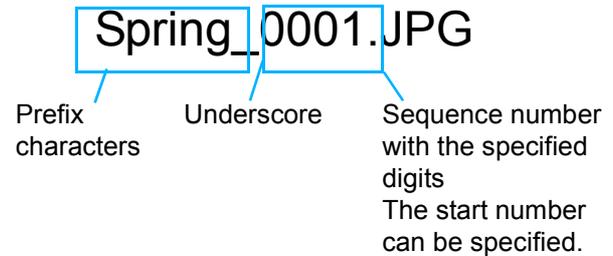
To rename image files in batch, follow the steps below.

1. **Select an image you want to rename.**

If you want to select multiple consecutive images, after clicking the first image, press and hold the [Shift] key and click the last image.

To select multiple images that are not consecutive, press and hold the [Ctrl] while clicking each.

2. **Select [Tools] then [Continuous Rename] from the menu bar.**
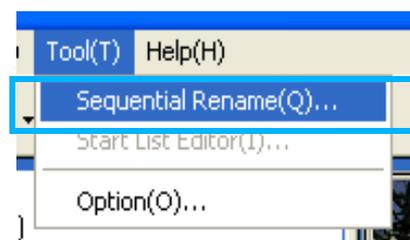
3. **When the [Continuous Rename] dialog box appears, specify the prefix characters, underscore (with or without), start number, and digits.**
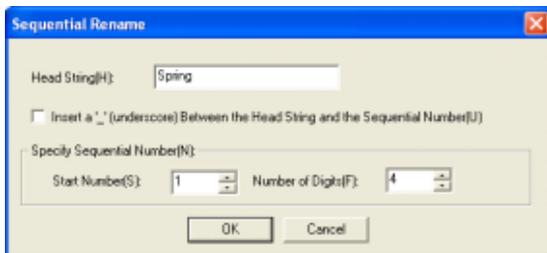
4. **Click the [OK] button.**

Copying a Reduced Image File

You can reduce an image shown on the Thumbnail Display screen and copy it onto the clipboard.

Available scale options are 100%, 1/2, 1/3, 1/4, 1/8 and 1/16.

For example, when you paste a shot image onto a Windows application document and find the image too large for your document size, you can reduce the image using this function in advance and paste it into the document via clipboard.

How to Copy an Reduced Image File

To reduce an image file size and copy it onto the clipboard, follow the steps below.

1. **Select an image you want to reduce.**

2. **Using one of the steps below, select [Copy Image].**

- Select [Edit] then [Copy Image] from the menu bar.

- On the image you selected, right click and choose [Copy Image] from the menu.

3. **When the scale options appear, select a scale from the menu.**

4. **Paste the image from the clipboard to another Windows application.**
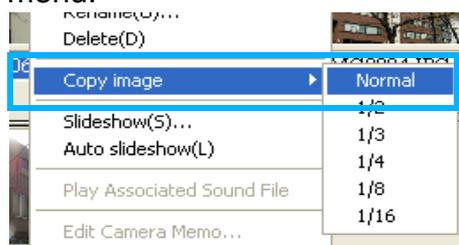
For example, when using Paint from Windows Accessories, start Paint, and then select Paste from the Edit menu.

Deleting Images

You can delete images.

There are three methods for deleting images.

Using the File Menu

1. **Click an image you want to delete in the Thumbnail Display Area.**

2. **Select [Delete] from the [File] menu.**

Using the Shortcut Menu

1. **Right-click on the image you want to delete in the Thumbnail Display Area.**

   The shortcut menu appears.

2. **Select [Delete] from the menu.**

Using the Keyboard

1. **Click an image you want to delete in the Thumbnail Display Area.**

2. **Press the [DELETE] key on your keyboard.**

   A message appears to confirm the deletion.

3. **Click the [OK] button.**

23
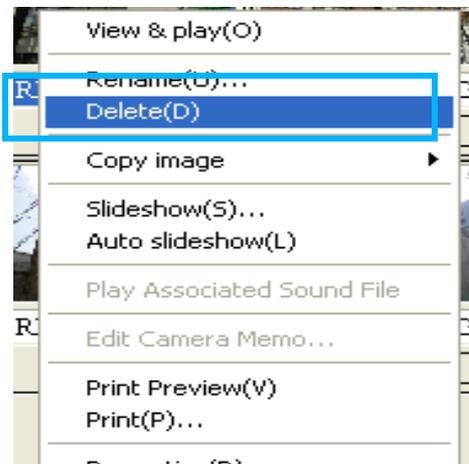
Viewing Image Information

You can display image information, such as the date and time a photo was shot, the size of the image, and so on.

To display image information, follow the steps below.

1. **Select the image you want to display its information.**

2. **Using one of the steps below, select [Properties].**

- Select [File] then [Properties] from the menu bar.
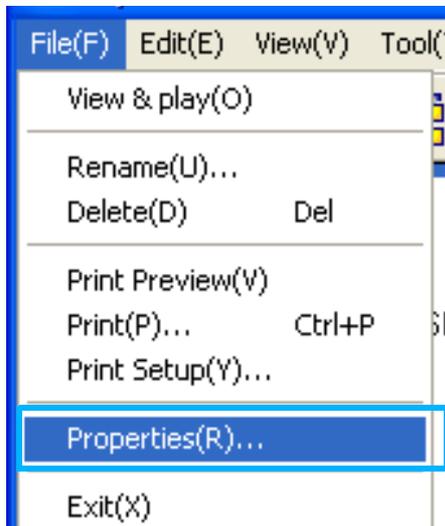
- On the image you selected, right click and choose [Properties] from the menu.

- Click the [Properties] icon on the tool bar.

The [Properties] screen like the one below appears.

The [Properties] window has the [General] tab displaying the shooting date and time and other information and the [Details] tab displaying the camera settings at shooting.

[General] tab on the [Properties] screen

[Details] tab on the [Properties] screen

📄 **Note**

The [Details] tab above displays information that applies to this camera. The contents displayed on the [Details] tab may differ depending on the camera.

Displaying the Viewer Screen

If you use the Viewer screen, images are displayed at full size, not as thumbnails.

To open the Viewer screen, follow one of the steps below.

• Double click the image you want to display from the thumbnail selection.

• Click the image you want to display from the thumbnail display area, then select [Open] from the [File] menu.
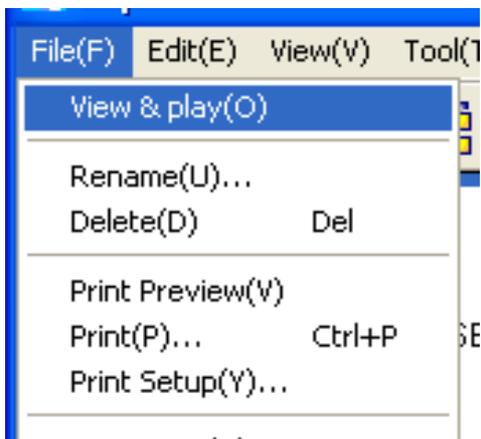
Using the Viewer Screen
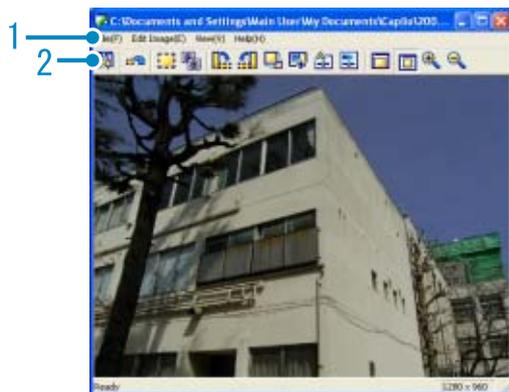
Viewer Screen

1. Menu Bar (see P.29)

2. Tool Bar

	[Save As] (see P.26)
	[Return to Original] (see P.26)
	[Select Range] (see P.26)
	[Copy] (see P.26)
	[Rotate 90C× counter-clockwise] (see P.26)
	[Rotate 90C× clockwise] (see P.26)
	[Resize] (see P.26)
	Cropping (see P.26)
	[Auto Image Correction] (see P.27)
	[Manual Image Correction] (see P.27)
	[Actual size view] (see P.28)
	[Overall view] (see P.28)
	[Enlarged Display] (see P.28)
	[Reduced Display] (see P.28)

What You Can Do with the Toolbar

By using the icons on the toolbar, you can do the following:

[Save As]

The [Save As] dialog box appears where you can save the image file. Modifyint the file name allows you to save the image as a new one. You can also change the file type or compression ratio as required.
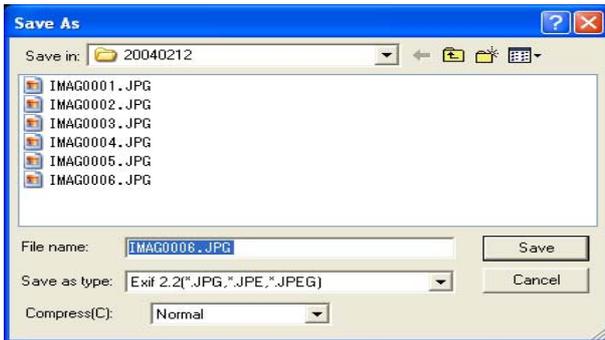
[Save As] dialog box

To save under a new file name, follow the steps below.

1. **Select [Save as...] from the [File] menu.**

The [Save As] dialog box appears.

2. **Specify where to save the new file in [Save in].**

3. **Enter the name of the new file in [File Name].**

4. **Change the file type or compression ratio as required.**

5. **Click [Save].**

[Return to Original]

Cancel changes made on the Viewer screen and restore the original.

[Select Range]

You can select a range by clicking and dragging.This is used to copy the selected range in an image.

[Copy]

An image can be saved to clipboard and then pasted into another application. If a range is selected with [Select Range], only the selected range is copied. Otherwise, the entire image is copied.

[Rotate 90C× clockwise]

[Rotate 90C× counter-clockwise]

You can rotate your images 90 degrees to the left or right. You can correct images to their proper vertical/horizontal orientation.

[Resize]

The [Resize] dialog box appears where you can resize the image to 1/2, 1/3, 1/4, 1/8, or 1/16.
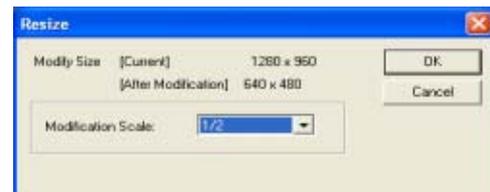
[Resize] dialog box

[Cropping]

You can crop a part of the image.When you click and drag to select a range, a message appears to confirm cropping. Click the [OK] button to crop the image.

[Auto Image Correction]

The brightness, contrast, sharpness, and hue are automatically adjusted to enhance images.The [Auto Image Correction] dialog box appears where you can preview the enhancement.
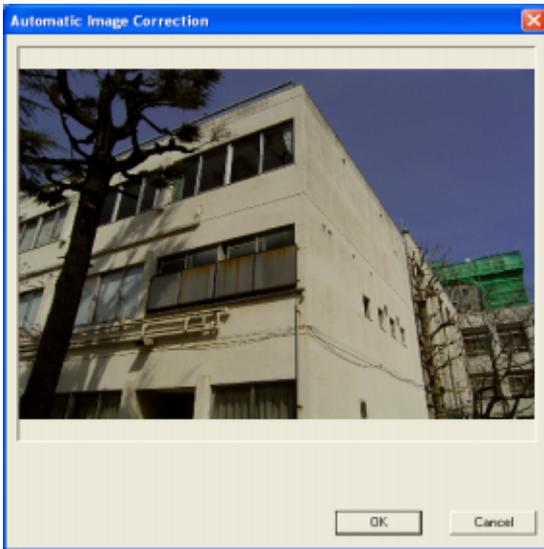
[Auto Image Correction] dialog box

[Manual Image Correction]

The [Manual Image Correction] dialog box appears where you can adjust the brightness, contrast, sharpness, and hue by dragging the slider sideways.

Slider

[Manual Image Correction] dialog box

The arrow keys are very useful for fine tuning the slider position.

Dragging each slider produces the following effects:

Original image

Brightness

Select the brightness level for an entire image.

-                                +

Contrast

Adjust the contrast level. You can increase or decrease the contrast of an image to make it sharp, or dull and flatter.

-                                +

Sharpness

An image can be made obscure or crisp.

-                                +

Gamma

The brightness of intermediate area can be adjusted without affecting the darkest and brightest areas. This is useful for applying corrections on dark pictures.

-                              +

Hue

The hue of an image can be adjusted toward blue (+) or red (-).

-                              +

Chroma

The color vividness can be adjusted.

-                              +

📝 **Note**

If using the [Brightness] slider makes an entire image whitish or blackish, you may be able to get better results with the Gamma slider.

🔲 **[Actual size view]**

The image is displayed as actual size.

🔲 **[Overall view]**

The image is displayed to fit into the Viewer screen.

🔍 **[Enlarged display]**

The image is enlarged to 2, 3, 4, 8, or 16 times.

📝 **Note**

Some ratios are not available for images of some sizes.

🔍 **[Reduce display]**

The image is reduced to 1/2, 1/3, 1/4, 1/8, or 1/16.

What You Can Do with the Toolbar

By using the menu items on the menu bar, you can do the following:

[File] menu
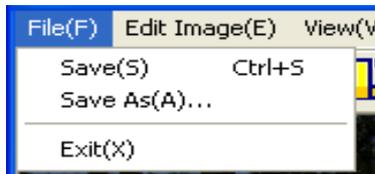
[Save]

Overwrites and saves an image.

[Save As]

The [Save As] dialog box (see P.26) appears where you can save the image file.The file type and compression ratio can also be changed.

[Quit]

Closes the Viewer screen.

[Edit Image] menu
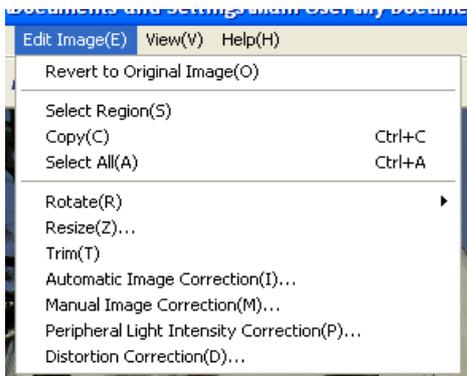
[Return to Original]

Cancel changes made on the Viewer screen and restore the original.

[Select Range]

You can select a range by clicking and dragging. This is used to copy the selected range in an image.

[Copy]

An image can be saved to clipboard and then pasted into another application. If a range is selected with [Select Range], only the selected range is copied. If no range is selected or [Select All] is selected, the entire image is copied.

[Select All]

Selects the entire image.This is used to copy images.

[Rotate]

You can rotate your images 90 degrees to the left or right. You can correct images to their proper vertical/horizontal orientation.

[Resize]

The [Resize] dialog box (see P.26) appears where you can resize the image to 1/2, 1/3, 1/4, 1/8, or 1/16.

[Cropping]

You can crop a part of the image. When you click and drag to select a range, a message appears to confirm cropping. Click the [OK] button to crop the image.

[Auto Image Correction]

The brightness, contrast, sharpness, and hue are automatically adjusted to enhance images. The [Auto Image Correction] dialog box (see P.27) appears where you can preview the enhancement.
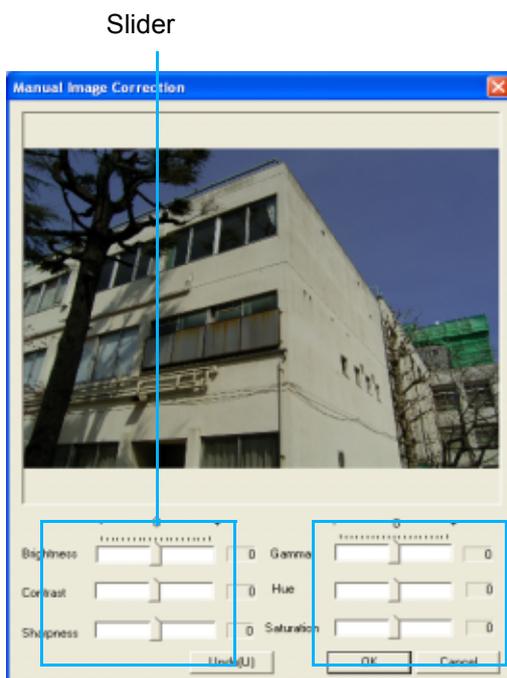
[Manual Image Correction]

The [Manual Image Correction] dialog box (see P.27) appears where you can adjust the brightness, contrast, sharpness, and hue by dragging the slider sideways.

[Adust Edges Light Level]

The [Adust Edges Light Level] dialog box appears where you can adjust the light level (brightness) for areas around the center of the image, by dragging the slider sideways.

[Adust Edges Light Level] dialog box

[Correct Distortion]

The [Correct Distortion] dialog box appears.
Click the [Auxiliary Line] button to display the line as the criterion. You can correct the image distortion by dragging the slider sideways.
Grasp and drag the auxiliary line to move it. Grasp and drag the line end to change its direction or length.

Auxiliary line
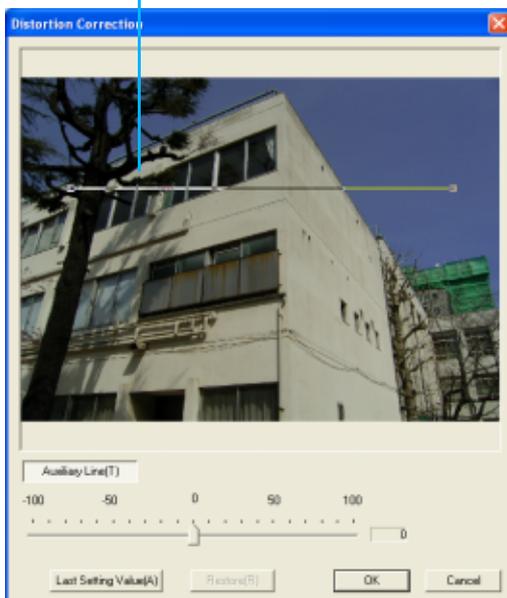
[Correct Distortion] dialog box

[View] menu
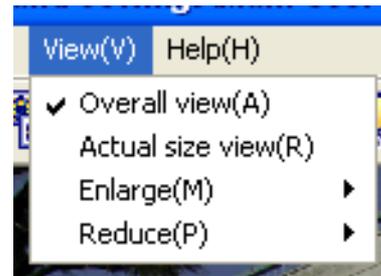
[Overall view]

The image is displayed to fit into the Viewer screen.

[Actual size view]

The image is displayed as actual size.

[Enlarge]

The image is enlarged to 2, 3, 4, 8, or 16 times.

📋 **Note**

Some ratios are not available for images of some sizes.

[Reduce]

The image is reduced to 1/2, 1/3, 1/4, 1/8, or 1/16.

[Help] menu
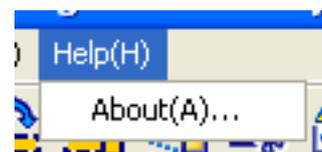
[About]

Displays the version of DU-10.

Printing an Image

You can print a thumbnail display image.

There are ten layouts available.

To Print an Image

To print an image, follow the steps below.

1. Select [Print Setup] from the [File] menu.

The [Print Setup] dialog box appears.

2. Select a layout in [Print Type].

3. Make other settings as required.

For details on print setup, see the next section "How to Use the [Print Setup] Dialog Box".

4. Click the [OK] button.

Print setup is complete.

📝 **Note**

- To continue printing at step 4, click the [Print] button. The [Print] dialog box appears, and you can start printing.

- To print an image in a large size, select 1x1 in [Print Type] on the [Print Setup] dialog box.

- The GPS information will not be printed.

Using the [Print Setup] Dialog Box

1. **[Print Type]**
   Select a layout for printing thumbnails.

2. **[Title]**
   Prints a title at the top of the page. You can use a folder name or specify a character string for the title.

3. **[Options]**
   Check the options to print an image with a frame, a shooting date, a printing date, the number of pages, and a file name.

4. **[Margin]**
   Specify the page margin widths.

5. **[Print]**
   Bring up the [Print] dialog box to start printing.

6. **[Printer Setup]**
   Make printer settings.

7. **[OK]**
   Used for making print settings without actually printing.

Checking the Printing Layout

You can check the print preview before printing.

1. Select [Print Preview] from the [File] menu.

The print preview screen appears.
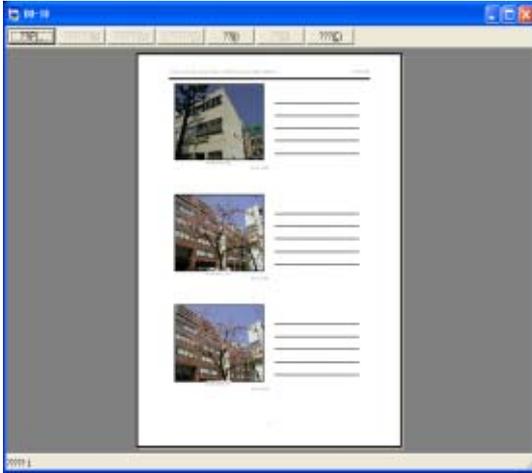
Functions of the buttons shown at the top of the screen are as follows:

[Print]	:	Displays the [Print] dialog box to start printing.
[Next Page]	:	Displays the next page.
[Previous Page]	:	Displays the previous page.
[2 Pages]	:	Displays two pages on the screen at a time.
[Enlarge]	:	Zooms in on the page.
[Reduce]	:	Zooms out on the page.
[Close]	:	Closes the print preview screen.

Making printer settings

Selecting [Printer Setup] in the [Print Setup] dialog box (available on the [File] menu) allows you to make printer-related settings such as selection of a printer, paper size, and paper feed method.

Printing Images

To print images, follow the steps below.

1. Select the images you want to print by clicking on them.

To select two or more contiguous images, click the first image and then click the last image while pressing the [Shift] key.

To select two or more distant images, click them one after another while pressing the [Ctrl] key.

To print all thumbnail images displayed, go to step 2 directly.

2. Select [Print] from the [File] menu.

The [Print] dialog box appears.

3. Check the printer name, and click the [Properties] button to make printer settings if required.

4. Perform either of the following operations:

• To print the selected images, select [Selection] in [Print range], specify the number of copies, and click the [OK] button.

• To print all images, specify the number of copies and click the [OK] button.

Chapter 2
Getting to Enjoy Images on Your Computer
 # (For Macintosh)

Section 1
Downloading Images to a Computer

This section explains how to display still images and movies you have downloaded to your computer.

Connecting the Camera to a Computer

After installing the software on your computer, connect your camera to it.

1. **Make sure the camera power is off.**

2. **Connect the USB cable to the USB port of your computer.**
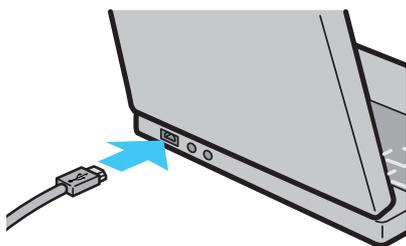
3. **Connect the USB cable to the USB terminal of your camera.**
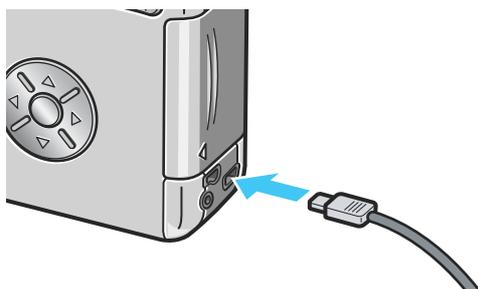
Your camera turns on.

 Note

- To disconnect the camera from your computer:

  1.Turn your camera off.

  2.Unplug the USB cable.

- It is recommended that you use the AC Adapter (sold separately) when you are downloading images from your camera.

Downloading Images to Your Computer

After you have connected your camera to the computer, images are downloaded automatically.

 Note

Images are downloaded to your computer from the following memory sources.

When no memory card is loaded	When an SD Memory Card is loaded
Loads from internal memory	Loads from the SD Memory Card
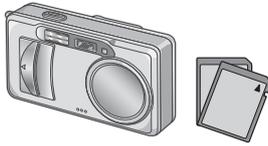
Downloading methods differ (as described in the following table) depending on the environment used. Refer to the respective page to download your images.

For Mac OS 8.6 to 9.2.2	Download using DL-10.	P.35
For Mac OS X 10.1.2 to 10.3	Download using the Mounter.	P.36

For Mac OS 8.6 to 9.2.2

In Mac OS 8.6, Mac OS 9.1, or earlier versions, a folder called [Digital Camera] is created inside the root directory on the start-up disc [Macintosh HD].

In Mac OS 9.1 to 9.2.2, a folder called [Digital Camera] is automatically created inside the [Documents] folder on the start-up disc [Macintosh HD].

1. Connect your camera to the computer using the USB cable.

The camera turns on, DL-10 starts, and the DL-10 window appears.

Image transfer begins automatically.

2. Click on the [File] menu and select [Quit].

DL-10 closes.

Using the Mounter

You can transfer images using the Mounter.

1. Connect your camera to the computer using the USB cable.

Your camera turns on.

When no SD Memory Card is loaded, the [Digital Camera] icon is displayed and you can view the image files stored in internal memory.

When an SD Memory Card is loaded, the [Digital Camera.SD] icon is displayed and you can view the image files stored on the SD Memory Card loaded.

2. Double-click the displayed icon.

It can be handled in the same way as a normal drive. If you double-click the icon, a folder called [DCIM] is displayed and a folder called [Digital Camera] within that folder is displayed. The image files you shot are inside the [Digital Camera] folder.

You can use drag and drop to copy files to the hard disk.

Important

When using the Mounter, you cannot write data onto an SD memory card.

Note

• If you want to start DL-10 when the camera is not connected, double-click the [DL-10] icon in the Control Panel folder, which is inside the System Folder.

• Images downloaded by DL-10 are saved in folders with the date of each shot, inside the [Digital Camera] folder. When using the Mounter, you can specify a folder where the images will be saved.

Reference

For how to change the Save Destination Folder, see P.38.

35

For Mac OS X 10.1.2 to 10.3

1. **Connect your camera to the computer using the USB cable.**

Your camera turns on.

When no SD Memory Card is loaded, the [Digital Camera] icon is displayed and you can view the image files stored in internal memory.

When an SD Memory Card is loaded, the [Digital Camera.SD] icon is displayed and you can view the image files stored on the SD Memory Card loaded.

2. **Double-click the displayed icon.**

It can be handled in the same way as a normal drive. If you double-click the icon, a folder called [DCIM] is displayed and a folder called [Digital Camera] within that folder is displayed. The image files you shot are inside the [Digital Camera] folder.

You can use drag and drop to copy files to the hard disk.

How to Use DL-10

DL-10 is a software program to import images from the camera to a computer.

By simply connecting the camera to your computer via a USB cable, images are automatically imported to the computer.

On the DL-10 window, you can make various settings including auto-saving upon connection and the destination folder (where images will be saved).

Starting

Connecting the camera to your computer automatically starts DL-10 and begins importing of images from the camera

Quitting

To quit DL-10, select [Exit] from the DL-10 menu bar.

Restarting

To restart DL-10 after quitting, double-click the [DL-10] icon in the Control Panel folder in the system folder.

The DL-10 Window

Once DL-10 starts up, the following DL-10 menu bar and window appear on the computer screen.
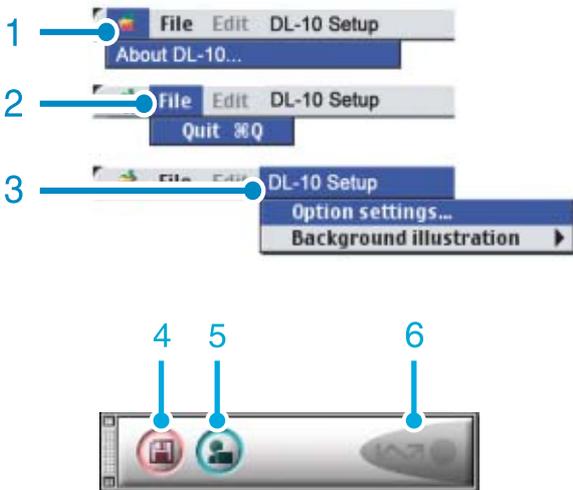
1. [About DL-10]
   Displays the version of DL-10.

2. [Quit]
   Closes DL-10.

3. [Option settings]
   Specifies where to save images, or which application to launch when you press the Application button and after saving.(P.38)

   [Background illustration]
   If you select this, a sub-menu will appear, allowing you to change the background design of the DL-10 window.

Sub-menu Figure

4. [Save Button]
   Click this and the images are downloaded from your camera.

5. [Application Button]
   The application registered in Optional Settings is launched.

6. [Indicator]
   The indicator lights if the camera is connected via USB cable.

How to Use the Optional Settings

If you select [Optional Settings] from the [DL-10 Settings] menu, the [Optional Settings] dialog box appears.

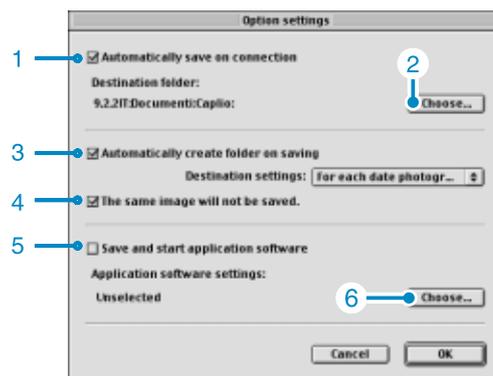|	Item	Description	Initial Setting
1.	[Automatically save on connection]	If you check this box, once your camera is connected to the computer, images are automatically downloaded and saved. If you uncheck the box, your images will not be download automatically when you connect your camera to the computer. Click the [Save] button when you want to download.	Transfer files automatically
2.	[Choose]	Specifies which folder to save your images in. For Mac OS 8.6, Mac OS 9.1, or earlier versions, it is in the [Digital Camera] folder of the Root Directory on the Start-up disc [Macintosh HD]. For Mac OS 9.1 to 9.2.2, it is specified in the [Digital Camera] folder inside the [Documents] folder on the Start-up disc [Macintosh HD], so if you want to change it, click the [Select] button and in the dialog box that appears, select the folder you wish to specify.	_____

3.	[Create folder]	Specifies how to create a folder.
		[Do not Create]
		  Your downloaded images will all be saved in the folder specified in item 2.
		[For each date photographed]
		  Creates a new folder assigning the date the images were shot as the folder name, and saves images shot on the same day in the same folder.
		For example, if shot on May 1, 2004: [20040501] folder
		[Date Transferred + Number Transferred]
		  Creates a new folder for each time images are saved and saves the images shot at the same time in the same folder.
		  For example, if saved twice on May 1, 2004:
		  [20040501_001] folder, [20040501_002] folder
			For each date photographed

4.	[The same image will not be saved.]	You can specify this only when you have selected [For each date photographed] for folder name or if you did not check [Automatically create folder on saving] in [Create folder]. Images imported once are not imported anymore. To allow the function to work properly, the camera's clock information must be set properly.	Do not save same image.
5.	[Save and start application software]	If this is checked, an application will be launched after saving. If this is unchecked, no application will be launched.	Do not start application after transfer
6.	[Choose]	Specify the name of the application you want to launch after you save. Click the [Choose] button to display the dialog box, and then specify which application to use.	_____

38

Troubleshooting

About computer connection and software

Symptom 1   Cannot download images

Measure 1

Your computer does not recognize the camera correctly.

Follow the steps below.

For Windows 98/98SE/Me

Step 1: First, follow the steps below.

1. Load the CD-ROM into your computer.
2. Connect your camera via the USB cable to your computer.
3. Click the [Start] button on the Windows taskbar to display the [Start] menu.
4. On the [Start] menu, point to [Settings], and then click [Control Panel].
5. On the Control Panel displayed, double-click the [System] icon.
6. On the [System Properties] screen displayed, double-click the [Device Manager] tab.
7. On the [Device Manager] tab page displayed, click [+] on the left side of [Other Devices].
8. Check if there is [DSC 724] below it. If there is, click [DSC 724], and then click the [Delete] button at the bottom of the [Device Manager] tab.

   The entry [DSC 724] is deleted.
9. Click [OK] to close the [System Properties] screen.
10. When the display returns to the Control Panel, double-click the [Add/Remove] icon.
11. On the [Add/Remove Applications Properties] screen displayed, select [DSC Software], and then click the [Add/Remove] button.

   This uninstalls the DSC Software.
12. Click [OK] to close the [Add/Remove Applications Properties] screen.
13. Click the [x] (Close) button to close the Control Panel.
14. Turn off your camera and computer.
15. Turn your computer back on and reinstall the software from the CD-ROM.

   *At this time, do not connect your camera.
16. Connect your camera via the USB cable to your computer.

   When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

Step 2: If your computer still does not recognize the camera, follow the steps below.

1. Load the CD-ROM into your computer.

2. Connect your camera via the USB cable to your computer.

3. Click the [Start] button on the Windows taskbar to display the [Start] menu.

4. On the [Start] menu, point to [Settings], and then click [Control Panel].

5. On the Control Panel displayed, double-click the [System] icon.

6. On the [System Properties] screen displayed, double-click the [Device Manager] tab.

7. On the [Device Manager] tab page displayed, click [+] on the left side of [Port COM/LPT] to open.

8. Check whether or not there is an unknown device symbol (!) indicated for [DSC Camera Port]. If there is, select it, and then click the [Delete] button at the bottom of the [Device Manager] tab to delete it.

9. Click [+] on the left side of [Universal Serial Controller] to open.

10. Check whether or not there is an unknown device symbol (!) indicated for [DSC USB Virtual COM] below it. If there is, select it, and then click the [Delete] button at the bottom of the [Device Manager] tab to delete it.

11. Click [OK] to close the [System Properties] screen.

12. When the display returns to the Control Panel, double-click the [Add/Remove] icon.

13. On the [Add/Remove Applications Properties] screen displayed, select [DSC Software], and then click the [Add/Remove] button.

    This uninstalls the DSC Software.

14. Click [OK] to close the [Add/Remove Applications Properties] screen.

15. Click the [x] (Close) button to close the Control Panel.

16. Turn off your camera and computer.

17. Turn your computer back on and reinstall the software from the CD-ROM.

    *At this time, do not connect your camera.

18. Connect your camera via the USB cable to your computer.

    When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

For Windows 2000

Step 1: First, follow the steps below.

1. Load the CD-ROM into your computer.

2. Connect your camera via the USB cable to your computer.

3. Click the [Start] button on the Windows taskbar to display the [Start] menu.

4. On the [Start] menu, point to [Settings], and then click [Control Panel].

5. On the Control Panel displayed, double-click the [System] icon.

6. On the [System Properties] screen displayed, double-click the [Device Manager] tab.

7. On the [Hardware] tab page displayed, click the [Device Manager] button.

8. On the [Device Manager] screen displayed, click [+] on the left side of [Other Devices].

9. Check if there is [DSC 724] below it. If there is, click [DSC 724], and then click the [Delete] from the [Operation] menu.

   The entry [DSC 724] is deleted.

10. Click the [x] (Close) button to close the [Device Manager] screen.

11. Click [OK] to close the [System Properties] screen.

12. When the display returns to the Control Panel, double-click the [Add/Remove] icon.

13. On the [Add/Remove Applications Properties] screen displayed, select [DSC Software], and then click the [Change/Remove] button.

   This uninstalls the DSC Software.

10. Click the [x] (Close) button to close the [Add/Remove Applications Properties] screen.

15. Click the [x] (Close) button to close the Control Panel.

16. Turn off your camera and computer.

17. Turn your computer back on and reinstall the software from the CD-ROM.

   *At this time, do not connect your camera.

18. Connect your camera via the USB cable to your computer.

   When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

For Windows 2000

Step 2: If your computer still does not recognize the camera, follow the steps below.

1. Load the CD-ROM into your computer.

2. Connect your camera via the USB cable to your computer.

3. Click the [Start] button on the Windows taskbar to display the [Start] menu.

4. On the [Start] menu, point to [Settings], and then click [Control Panel].

5. On the Control Panel displayed, double-click the [System] icon.

6. On the [System Properties] screen displayed, double-click the [Device Manager] tab.

7. On the [Hardware] tab page displayed, click the [Device Manager] button.

8. On the [Device Manager] screen displayed, click [+] on the left side of [Port COM/LPT] to open.

9. Check whether or not there is an unknown device symbol (!) indicated for [DSC Camera Port].If there is, click it, and then click the [Delete] from the [Operation] menu.

10. Click the [x] (Close) button to close the [System Properties] screen.

11. When the display returns to the Control Panel, double-click the [Add/Remove] icon.

12. On the [Add/Remove Applications Properties] screen displayed, select [DSC Software], and then click the [Change/Remove] button.

   This uninstalls the DSC Software.

áL Click the [x] (Close) button to close the [Add/Remove Applications Properties] screen.

14. Click the [x] (Close) button to close the Control Panel.

15. Turn off your camera and computer.

16. Turn your computer back on and reinstall the software from the CD-ROM.

   *At this time, do not connect your camera.

17. Connect your camera via the USB cable to your computer.

   When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

For Windows XP

Step 1: First, follow the steps below.

1. Load the CD-ROM into your computer.

2. Connect your camera via the USB cable to your computer.

3. Click the [Start] button on the Windows taskbar to display the [Start] menu.

4. On the [Start] menu, click [Control Panel].

5. On the Control Panel displayed, click [Switch to Classic Display].

The display changes its appearance and the [System] icon appears.

6. Double-click the [System] icon.

7. On the [System Properties] screen displayed, double-click the [Device Manager] tab.

8. On the [Hardware] tab page displayed, click the [Device Manager] button.

9. On the [Device Manager] screen displayed, click [+] on the left side of [Other Devices].

   Check if there is [DSC 724] below it. If there is, right-click [DSC 724] to display the menu and select [Update Driver].

11. Windows will display the [Hardware Update Wizard] screen. At this point, insert the CD-ROM into the CD-ROM drive on your computer.

12. Make sure that [Install the software automatically (Recommended)] is selected, and then click [Next].

13. When the [Completing the Hardware Update Wizard] screen appears, click [Finish].

14. Click the [x] (Close) button to close the [Device Manager] screen.

15. Click [OK] to close the [System Properties] screen.

16. Click the [x] (Close) button to close the Control Panel.

17. Turn off your camera and computer.

18. Turn your computer back on and reinstall the software from the CD-ROM.

   *At this time, do not connect your camera.

19. Connect your camera via the USB cable to your computer.

   When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

Step 2: If your computer still does not recognize the camera, follow the steps below.

1. Load the CD-ROM into your computer.

2. Connect your camera via the USB cable to your computer.

3. Click the [Start] button on the Windows taskbar to display the [Start] menu.

4. On the [Start] menu, click [Control Panel].

5. On the Control Panel displayed, click [Switch to Classic Display].

   The display changes its appearance and the [System] icon appears.

6. Double-click the [System] icon.

7. On the [System Properties] screen displayed, double-click the [Device Manager] tab.

8. On the [Hardware] tab page displayed, click the [Device Manager] button.

9. On the [Device Manager] screen displayed, click [+] on the left side of [Imaging Devices] to open.

10. Check whether or not there is an unknown device symbol (!) indicated for [DSC 724]. If there is, right-click the unknown device symbol to display the menu and select [Driver Update].

11. Windows will display the [Hardware Update Wizard] screen. At this point, insert the CD-ROM into the CD-ROM drive on your computer.

12. Make sure that [Install the software automatically (Recommended)] is selected, and then click [Next].

13. When the [Completing the Hardware Update Wizard] screen appears, click [Finish].

14. Click the [x] (Close) button to close the [Device Manager] screen.

15. Click [OK] to close the [System Properties] screen.

16. Click the [x] (Close) button to close the Control Panel.

The driver is installed and your computer recognize the camera correctly.

Measure 2

For Windows 98/98SE/Me, the COM Port setting may be wrong.

Follow the steps below.

1. Connect your camera via the USB cable to your computer.
2. Click the [Start] button on the Windows taskbar to display the [Start] menu.
3. On the [Start] menu, point to [Settings], and then click [Control Panel].
4. On the Control Panel displayed, double-click the [System] icon.
5. On the [System Properties] screen displayed, double-click the [Device Manager] tab.
6. On the [Device Manager] tab page displayed, click [+] on the left side of [Port COM/LPT] to open.
7. Click [DSC Camera Port] under [Port COM/LPT], and then click the [Properties] button at the bottom of the [Device Manager] tab.
8. On the [DSC Camera Port Properties] screen displayed, Click the [Port Select] tab.
9. On the [Port Select] tab page displayed, select a COM Number not being used from [Port-Name].

   The port (COM number) currently allocated for your camera is indicated by a "*".

   Immediately after installing the USB driver, COM 7 should be selected, so select a number above COM8.
10. Click [OK] to close the [DSC Camera Port Properties] screen.
11. Click [OK] to close the [System Properties] screen.
12. Click the [x] (Close) button to close the Control Panel.

Measure 3

Your camera may not be recognized correctly if you connect to the USB Port of your computer via a USB hub.

Follow the steps below to change the USB port.

- Connect your camera directly to the USB port of your computer.
- If there are several root ports, change to another one.

If you are using a port other than USB, connect via a USB port.

Measure 4

The batteries may have worn out.

Check whether the batteries have worn out. If worn out, replace them with new ones.

Measure 5

The free space on the hard disk in your computer may be insufficient.

Check whether the hard disk has a space for running Windows, and the drive where you are loading image files has the same capacity or more as that of the memory card inserted in the camera.

Symptom 2   Even if you check [The same image will not be saved] in the DL-10 Optional Settings, the same images are loaded into your computer.

Measure

The camera's clock is incorrectly set or the camera's clock information has been reset.

To allow the [The same image will not be saved] function to work properly, the camera's clock information must be set properly. Set it properly.

Symptom 3   Files loaded from the camera into the computer were deleted. You attempted to load the same files from the camera again but failed.

Measure

If [The same image will not be saved] is checked in the DL-10 Optional Settings, files loaded into your computer once cannot be loaded again. In the DL-10 Optional Settings, uncheck [The same image will not be saved].

Symptom 4   Cannot play back movies

Measure

DirectX may not be installed. (Windows 98/98SE/Me/2000) Install DirectX from the CD-ROM.

Symptom 5   DL-10 is always activated when the camera is connected to a Windows XP computer through a USB cable.

Measure

Connect the camera to the computer through the USB cable, and then open My Computer from the Start menu on Windows Taskbar. Right-click the camera icon on the My Computer screen and click Properties to open the camera's Properties screen. Click the [Event] tab on the Properties screen. For the computer operation, select "None" or "Select Program to Execute " and click OK. If "None" is selected, nothing happens when the camera is connected to the computer. If "Select Program to Execute" is selected, a screen is displayed each time the camera is connected to the computer. Then you can choose a program to activate.