Rollei

Instruction Manual





Rollei dr4 Rollei dr5







Preface

This manual provides information on how to use the shooting and playback functions of this product, as well as warnings on its use. To make the best use of this product's functions, read this manual thoroughly before use. Please keep this manual handy for ease of reference.

Safety Precautions

For the safe use of your camera, be sure to read Safety

Precautions thoroughly before use.

Test shooting

Please be sure to do some test shooting to make sure it

is recording properly before using it for real.

Copyright

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Exemption from Liability

We assumes no liability for failure to record or play back images caused by malfunction of this product.

Warranty

This product is manufactured to local specifications and the warranty is valid within the country of purchase. Should the product fail or malfunction while you are abroad, the manufacturer assumes no responsibility for servicing the product locally or bearing the expenditure

incurred therefore.

Radio Interference

Operating this product in the vicinity of other electronic equipment may adversely affect the performance of both devices. In particular, operating the camera close to a radio or television may lead to interference. If interference occurs, follow the procedures below.

Move the camera as far away as possible from the TV, radio or other device

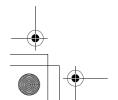
- device.
- Reorient the TV or radio antenna.
 Plug the devices into separate electical outlets.

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 This booklet was created with thorough attention to the content. If, however, you have a question, spot an error, or find a description lacking, please refer to the end of this booklet for information on how to contact us.

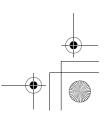
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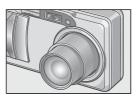








Key Features



Equipped with a wide zoom lens in 4.8x high magnification

This product has a compact body only 25 mm thick, featuring a 28- to 135-mm* wide 4.8x lens that applies to most normal shooting. The lens supports the shooting of various indoor and outdoor scenes.

* Equivalent to that on a 35mm camera



Rapid shutter response to capture a moment (P.26)

The shutter release time lag is as short as 0.1 seconds.

Hybrid auto focusing system technology even keeps action shots looking good.



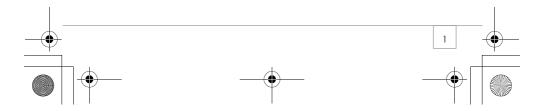
1-cm macro (P.32) and close flashing for 13 cm (for Telephoto) or 20 cm (for Wide-angle) (P.33)

The unsurpassed macro function allows you to capture details from a very close distance at only 1 cm. The camera also has a built-in flash for very close shots within 13 cm (for Telephoto) and 20 cm (for Wide-angle). This combination will give you clear macro shots even under low light conditions.



AF target shift function for easy focus lock even on a tripod (P.63)

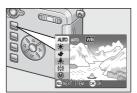
The camera has an AF target shift function. At macro shooting, the AF target shift function allows you to lock the focus only by button operation without moving the camera itself.











Adjust (adjust) button for easy customizing to optimum setting (P.49)

The adjust button reduces button operation steps. It allows you to quickly adjust the exposure, white balance, and ISO sensitivity with minimum steps. You can also assign a function as required.



High-quality movie with sound of 30 frames/second (P.79)

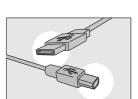
A high-quality movie of 320 x 240 pixels can be shot at 30 frames/second with sound.





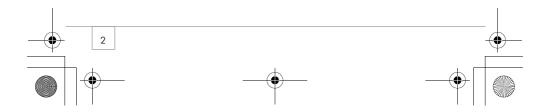
Scene mode for easy and beautiful shooting (P.34)

In Scene Mode, you need only to select from among six types of shooting modes for shooting with optimal settings for the scene.

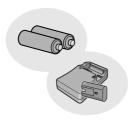


Instant transfer to PC through the **USB** cable

If the provided software is installed on your computer, just connecting the camera to your computer with the provided USB cable will automatically transfer images to your computer.

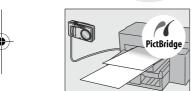






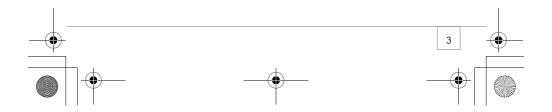
Choice of two power sources makes sure you wont miss any shooting opportunities (P.16)

The camera can be used with one of three power supplies: AA alkaline battery easily available anywhere and a large-capacity rechargeable battery (sold separately) for continuous shooting up to 5,000 pictures.



Direct printing without requiring any computer (P.44)

A direct print compatible printer can be connected to the camera with the USB cable for direct transfer. This allows for easy printing without using a computer.









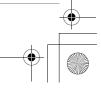


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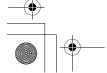
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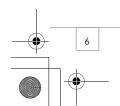


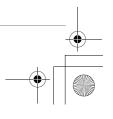
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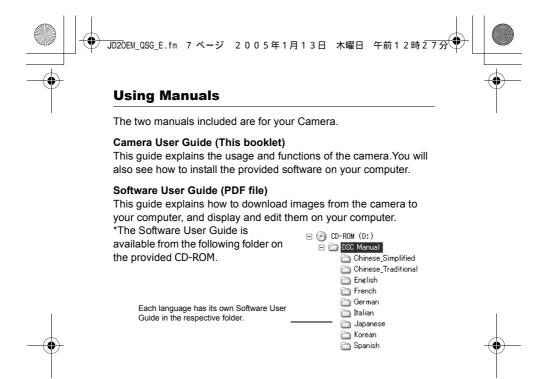
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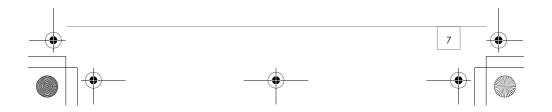


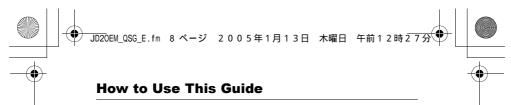






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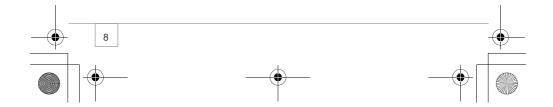
Chapter 1 explains the basic operations of this product. If you are using the camera for the first time, read from this chapter.

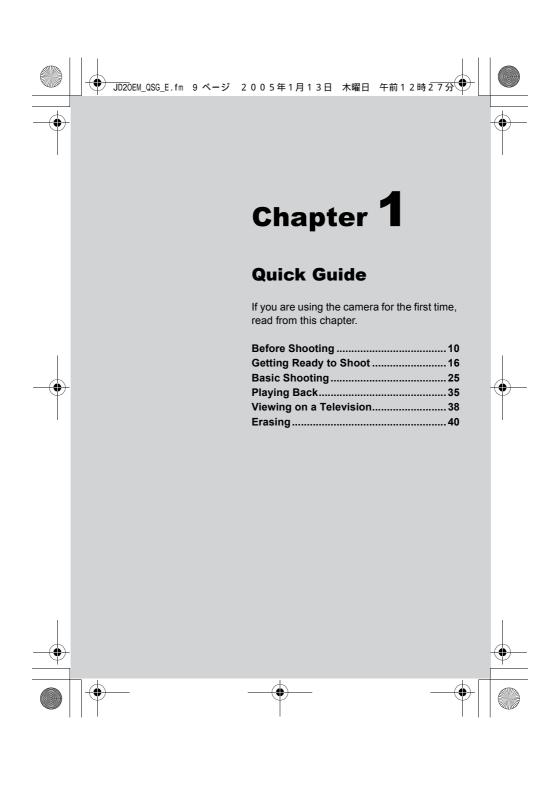
The following symbols are also used in this guide:

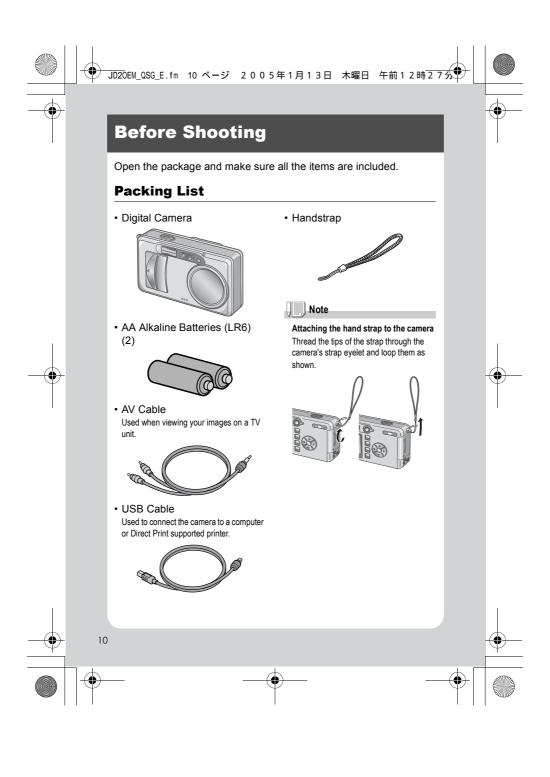
Important	This indicates important notices and restrictions for using this camera.
Note	This indicates supplementary explanations and useful tips about camera operations.
Term	This indicates terms that are useful for understanding the explanations.
Reference	This indicates page(s) relevant to a particular function.

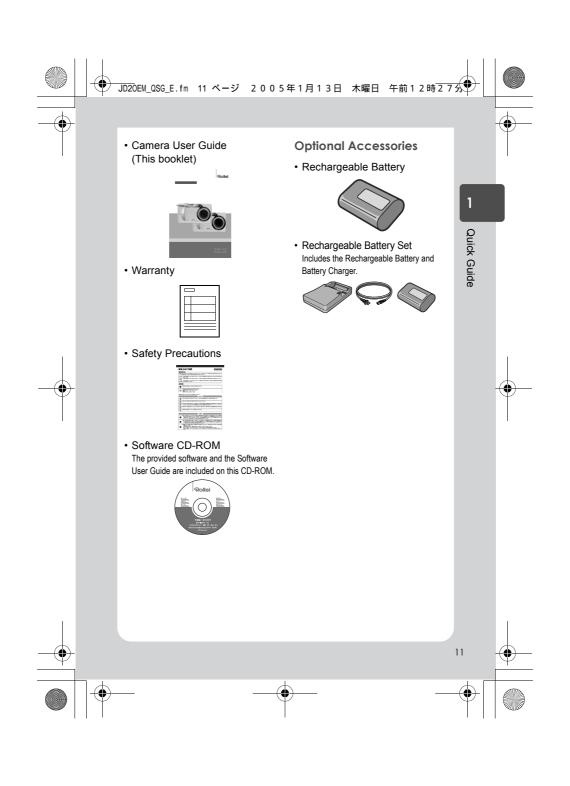
The LCD Monitor Display examples may be different from actual display screens.













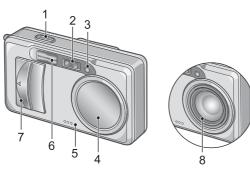






Names of parts

Camera





- 1. Shutter Release Button (P.25)
- 2. AF Window
- 3. Viewfinder
- 4. Lens Cover
- 5. Microphone (P.81)
- 6. Flash (P.33)
- 7. Power Switch (P.21)
- 8. Lens (P.25)

About the Mode Selector

You can select one of three modes with the mode selector.



Movie Mode	Allows you to shoot movies.
Still Image Mode	Allows you to shoot still images.
Voice Memo Mode	Allows you to record sounds.

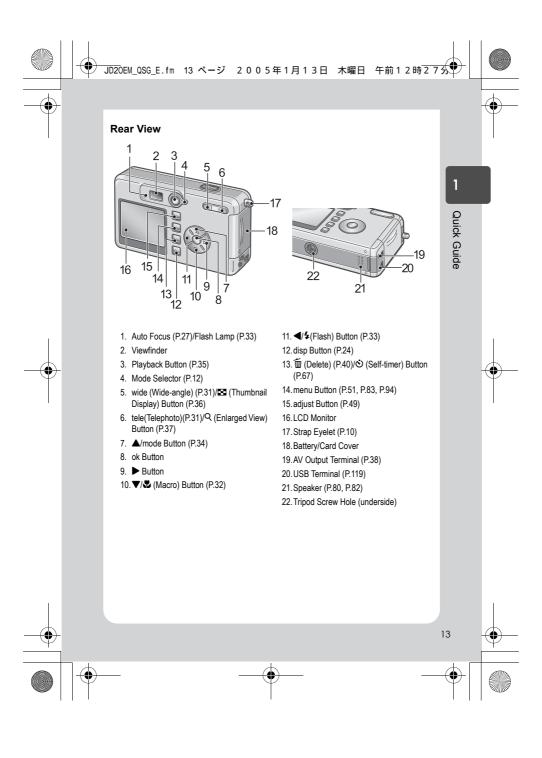


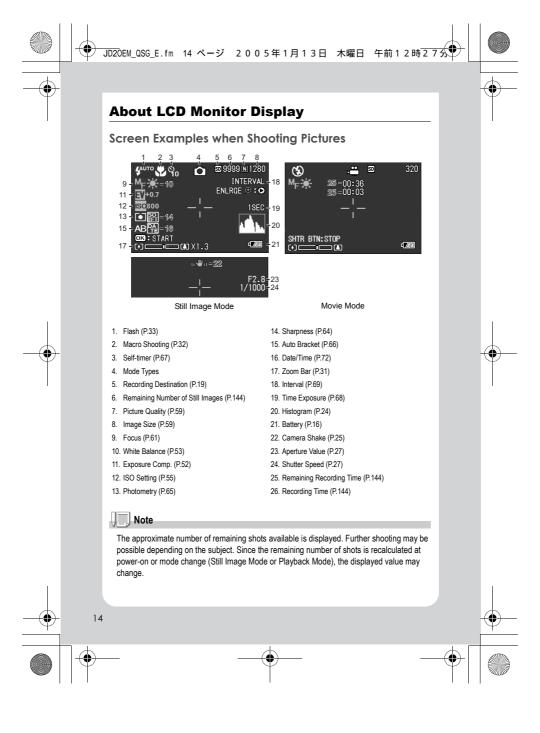


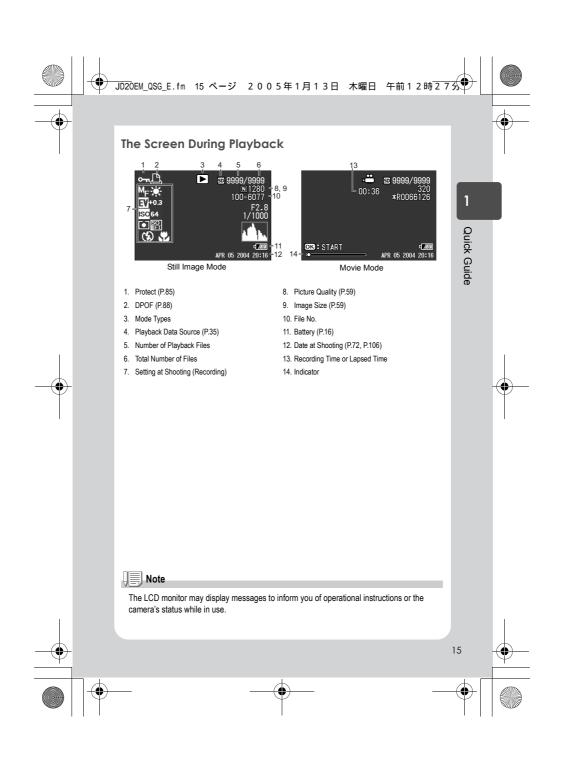


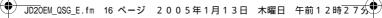












Getting Ready to Shoot

Turn the power on and get ready to shoot.

Note

If you have already used this camera, follow the steps below to make sure it is turned off before removing or loading batteries.

- 1. Make sure the LCD monitor is turned off.
- 2. Make sure the lens cover is closed.

For how to turn the camera off, see P.21.



About the Batteries

The following batteries can be used in the camera. Please choose which kind to use according to your needs.

• AA Alkaline Batteries (LR6) (included)

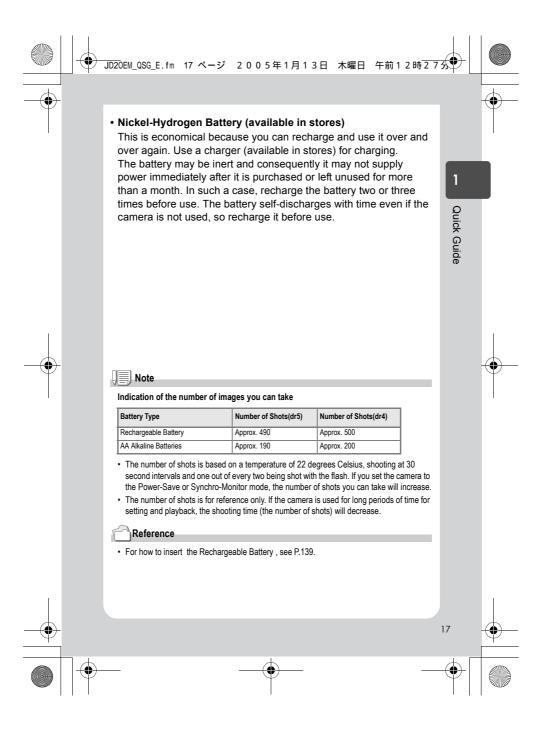
You can obtain them anywhere, so they are convenient for travel. However, in a low-temperature environment the number of shots you can take will decrease. Warm the batteries before use. It is recommended that you use the rechargeable battery when using the camera for a long time.

• Rechargeable Battery (sold separately)

This is a lithium-ion battery. This is economical because you can recharge it using the battery charger (sold separately) and use it over and over again. They last a long time, so they are convenient for travel

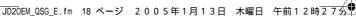
• AA Nickel Batteries (available in stores)

These batteries are not rechargeable. However, they last a long time as compared with AA Alkaline Batteries when used with a digital camera.















- Other batteries, such as manganese dry cell (R6) and Ni-Cd, cannot be used.
- You may not use CR-V3.
- Please remove the batteries if you are not going to use the camera for a long period of
- The life of an AA alkaline battery (LR6) depends on the brand and the storage time from the date of production. In addition, the life of an alkaline battery becomes shorter at low temperatures.
- The Nickel-Hydrogen Battery is not factory-charged. Charge it before use. Immediately after the purchase or after a long storage, the battery may not be charged fully. Repeat charging and discharging before use. For details, see the documentation that came with the battery or charger.
- The battery may become very hot immediately after operation. Turn the camera off and leave it to cool down sufficiently before removing the battery.

Note

Battery level indication

A battery mark appears at the lower left of the LCD monitor to indicate the battery level. Prepare new batteries before the batteries wear out.

Battery Mark	Description
6 7272	Sufficient battery charge
E	Low remaining charge: Prepare new batteries.
47 /4	No remaining charge: Replace the batteries.

Caution

• If you are using nickel metal hydride batteries, $\ensuremath{\text{\tiny CMM}}$ may not appear or $\ensuremath{\text{\tiny CMM}}$ or may appear immediately depending on the battery type and environmental conditions. Check the batteries at hand before use.













Quick Guide







You can store still images you have taken either in the camera's internal memory or on an SD Memory Card (available in stores). The internal memory capacity is 12 MB. When you want to record a lot of images, or images at high resolutions, use a highcapacity SD Memory Card.



Where images are recorded

When no SD memory card is inserted, the camera records images in the internal memory; when an SD memory card is inserted, it records images on the memory card.

When no memory card is loaded	When an SD Memory Card is loaded
Records to internal memory	Records to the SD memory card

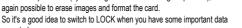


- If an SD memory card is loaded, the camera will not record to the internal memory, even if the card is full.
- · Take care not to get the metal parts of the card dirty.



Write-protecting your images

If you move the card's write-protection switch to LOCK, your still images cannot be accidentally erased and the memory card cannot be formatted. If you release the protection (by returning the switch to its original position), it is once again possible to erase images and format the card.



Note that you cannot shoot images in the LOCK state because no data can be recorded on the card. Unlock the card when shooting.

Reference

- For switching between the SD Memory Card and internal memory during playback, see P.35.
- For recording capacities, see P.144.

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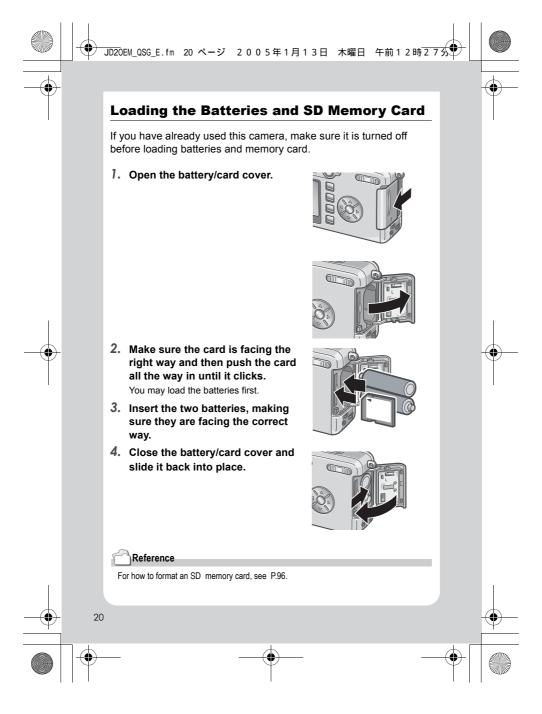
















To turn the power on:

1. Slide the power switch to open the lens cover.

After the start sound, the auto-focus/flash lamp blink for several seconds.

Using the Camera in Playback Mode

If the Playback button is pressed with the lens cover closed, the power is turn on in Playback Mode and the camera can be used in this mode.



To turn the power off:

1. Slide the power switch to close the lens cover.



If the LCD monitor does not come on

When the Power-Save mode is set to ON, the LCD monitor does not come on during the Still Image/Movie mode. Display the SETUP menu to turn the Power-Save mode OFF.

Power-Save Mode

The power consumption of the LCD monitor can be reduced and the battery life extended by setting the Power Saving mode to on.

Auto Power Off

If the camera goes unused for a set period of time, it will automatically turn itself off to save power. To continue on using the camera, slide the power switch to close the lens cover once (power-off) and slide it again to open (power-on).



- For how to activate Power Save Mode, see P.104.
- For how to change the Auto Power Off setting, see P.102.

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Setting the language

When the power is turned on for the first time, the language setting screen appears (for the LCD monitor display language). After setting the language, go on to the date/time setting (for printing the date and time on your photos).

You can shoot without these settings. However, be sure to set the language, and the date/time later. Use the SETUP screen for these settings.



To display the SETUP screen, turn the mode dial to SETUP.

1. Turn the power on for the first time after purchase.

The language selection screen appears.

To skip language setting, press the menu button.

When the menu button is pressed, the language setting is cancelled and the video signal format-setting screen appears.

- 2. Press the ▲▼◀▶ buttons to select a language.
- 3. Press the ok button.

The display language is set, and the date/ time setting screen appears.





For how to set the display language and date/time on the SETUP screen, see "Changing the Display Language (LANGUAGE)" and "Setting the Date and Time (DATE SETTINGS)" in this guide.



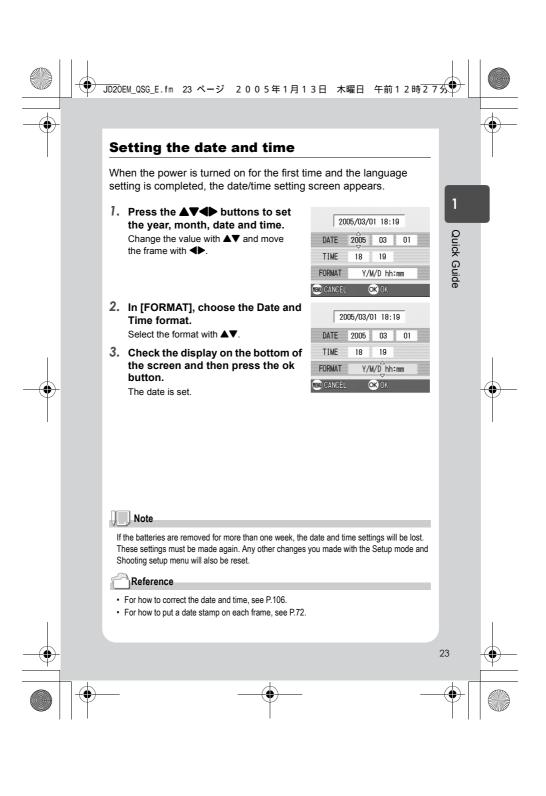


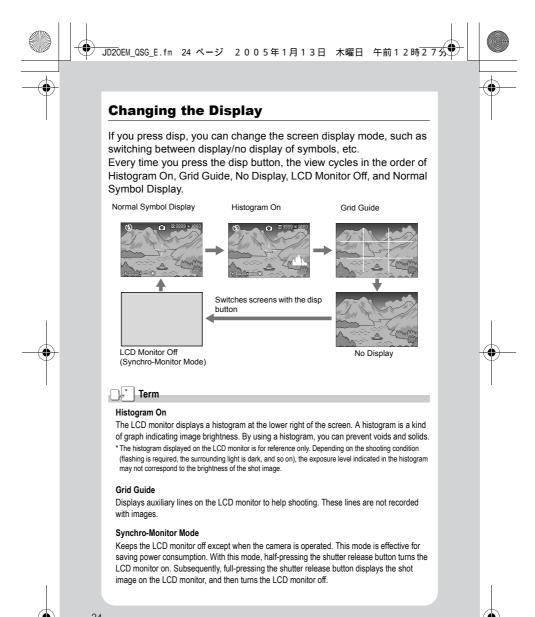


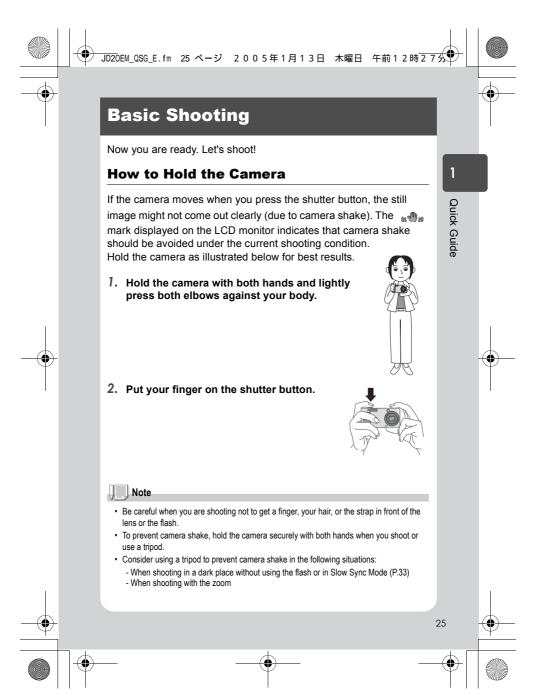


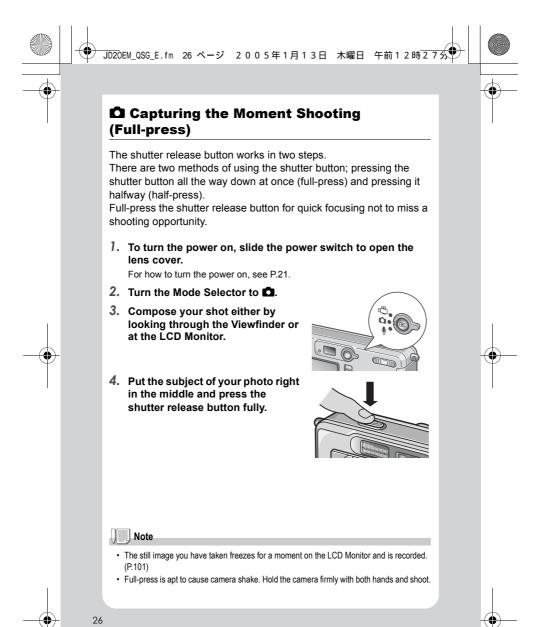






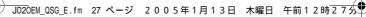












☐ Checking the Focus and Shooting (Half-press)

When you press the shutter release button halfway (half-press), the autofocus function is triggered to determine the focal distance. Subsequently press it all the way down (full-press) to shoot. This is useful when the subject is not in the middle (see P.29).

1. To turn the power on, slide the power switch to open the lens cover.

For how to turn the power on, see P.21.

2. Turn the Mode Selector to



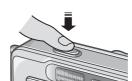
Compose your shot either by looking through the Viewfinder or at the LCD Monitor.



 Since the focus is adjusted at the center of the screen, position the subject at the center of the screen and half-press the shutter.

Once focused, the exposure and white balance are fixed.

If the automatic focusing fails, the crosshairs in the center of the LCD monitor turn red and the auto-focus lamp in the upper left of the viewfinder blinks in green.





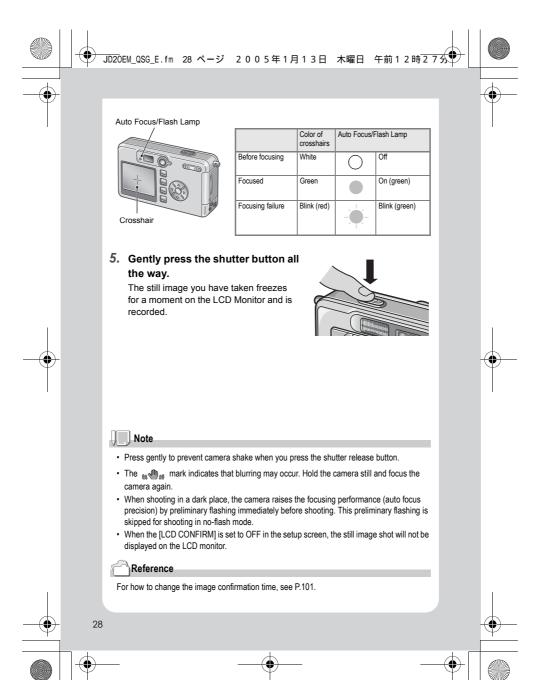












Quick Guide







⚠ When the Subject is not Centered (Shooting with Focus-lock)

When your subject is not in the center of your composition, compose your photo after focusing. (Focus-lock)

Example: Taking a photograph of the castle in the background with the camera focused on a person in front.

Shooting range Subject to be focused on





Final still image

1. To turn the power on, slide the power switch to open the lens cover.

For how to turn the power on, see P.21.

2. Turn the Mode Selector to .



Put the subject of your photo right in the center of the LCD Monitor or the Viewfinder and press the shutter button half-way.





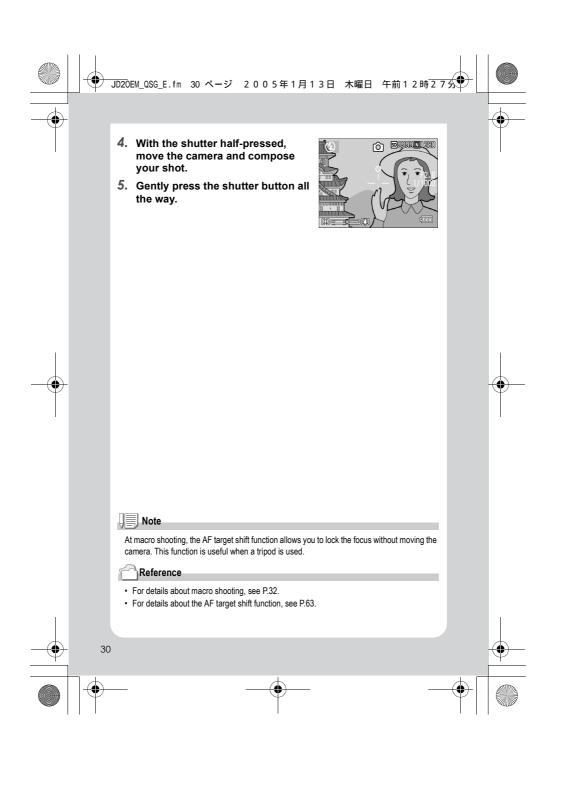














Quick Guide





If you use the wide (Wide angle)/ tele (Telephoto) button, you can alter the size of the subject in your photo without having to change your distance from it.

By pressing the wide button, the field in the LCD monitor and the viewfinder becomes wider. By pressing the tele button, the subject you see in the LCD monitor and the viewfinder becomes larger.



wide tele



 With the camera ready to shoot, press the wide button or the tele button

You can check the Zoom status on the Zoom Bar of the LCD monitor.



- 2. Compose your picture and halfpress the shutter release button.
- 3. Press the shutter release button all the way.





Using the Digital Zoom

Digital zooming enables you to enlarge the subject more than the maximum magnification (x4.8) that can be specified by pressing the tele (Telephoto) button (up to x3.6). For digital zooming, release the tele button once when the zoom reaches the limit on the tele (Tele) end on the Zoom Bar, and then hold the button down again.



















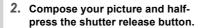


■ Shooting Close-Ups (Macro-Mode)

Using the **(Macro)** button allows you to take a tight close-up (Macro Photo). It is good for shooting small subjects because you can get up to one centimeter (1/2 inch) away.



- 1. With the camera ready to shoot, press the 🏖 button.
 - is displayed momentarily in a large size at the center of the LCD monitor and then at the upper part.





To get out of Macro Mode, press the : button again.







- The zoom function enables macro shooting from the front end of the lens barrel to the following distance:
- In Wide-Angle (W): Min. Approx. 1cm. In Telephoto (T): Min. Approx. 13cm.
- During Macro Shooting, the Viewfinder cannot be used. Use the LCD Monitor.
- The AF target shift function enables you to lock the focus for macro shooting only by button operation without moving the camera. This function is useful for shooting on a tripod. (P.63)







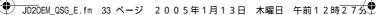












4 Using the Flash

Press the **\$** (Flash) button to switch between flash modes. By default, your camera is set to Flash Off.

From the front edge of the lens, flashlight reaches about 0.2 to 2.7 m (wide) or about 0.13 to 2.1 m (tele) when ISO sensitivity is set to AUTO.

Flash Modes

(7)	Flash Off	The flash will not fire.
⊈ AUTO	Auto	When your subject is poorly lit or backlit, the flash fires automatically.
0	Red-eye reduction	Reduces the red-eye phenomenon, in which people's eyes appear red when shooting images of people.
4	Forced Flash	The flash fires, whatever the light conditions are, when you shoot.
#SLOW	Slow Synchro	The flash fires with the shutter speed slowed. (Slow Synchro)

1. Turn the Mode Selector to .

2. Press the \$ (Flash) button to switch between flash modes.

The Flash mode mark appears momentarily in a large size at the center of the LCD monitor and then is displayed at the upper left. During flash charging, the flash lamp keeps blinking. Once the flash is charged, the lamp goes off and it is possible to shoot.





- The settings are saved until you press the **\$** (Flash) button to change them.
- When shooting movies or in Multi-Shot mode, the flash turns off.
- When shooting in a dark place, the camera raises the focusing performance (auto focus precision) by preliminary flashing immediately before shooting. This preliminary flashing is skipped for shooting in no-flash mode.
- If you are using the camera on AA alkaline batteries, the LCD Monitor is turned off during flash charging.





















Shooting with Scenery-Matching

If you use the Scene Mode, you can select from among six types of still image modes and shoot automatically with optimal settings for that kind of scene.

•	PORTRAIT	Use when taking portrait pictures.
•	SPORT	Use when taking pictures of moving objects.
A	LANDSCAPE	Use when you are taking scenery pictures with abundant greens or blue sky.
74	NIGHTSCAPE	Use when shooting night scenes. You can also shoot with persons in the frame.
	TEXT MODE	Use when capturing text images, for example, notes written on the whiteboard at a meeting.
Ť	HIGH SENSITIVITY	Use when taking pictures in dimly lit places. Also, LCD monitor becomes brighter.

- 1. Turn the Mode Selector to .
- 2. Press the ▲ button.

The still image mode selection screen appears.

- 3. Press the ▼ button to move to the SCENE menu.
- Press the ◆ buttons to move the orange rectangle to the mode you want to select.





The Mode's symbol is displayed on the upper part of the LCD monitor.

6. Press the shutter release button.

If you press the \blacktriangle button, the still image mode selection screen appears and you can change the mode.

To return to ordinary shooting mode, on the still image mode selection screen, press the \triangle button to select [Ordinary Shooting], and then press the ok button.

Reference

- For how to change PIC QUALITY/SIZE, see P.59.
- For how to change to density in TEXT Mode, see P.56.
- For combination of Scene Mode and the functions, see P.141.











Quick Guide







Viewing Your Images

In the Playback Mode you can check still images you have taken. You can also delete or zoom in on them.

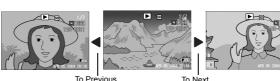
1. Press the Playback button.

The camera switches to Playback mode and the last still image you took is displayed.

You can view your pictures in order by using the $\blacktriangleleft \blacktriangleright$ button.

To switch the camera from playback mode to still image mode (or movie or voice memo mode), press the Playback button again.







About power-on in playback mode

When you press the Playback button while the camera is turned off (the lens cover is closed), the camera is turned on in playback mode with the lens cover still closed. In this status, you can playback still images or make settings in the Setup Menu, while shooting is not possible.

Where images are played back from

When no SD memory card is inserted, the camera plays back from the internal memory. When an SD memory card is inserted, it plays back from the SD memory card.



- For how to playback movies, see P.80.
- For how to playback sounds, see P.82.
- For how to playback still images with voice memo, see P.73.

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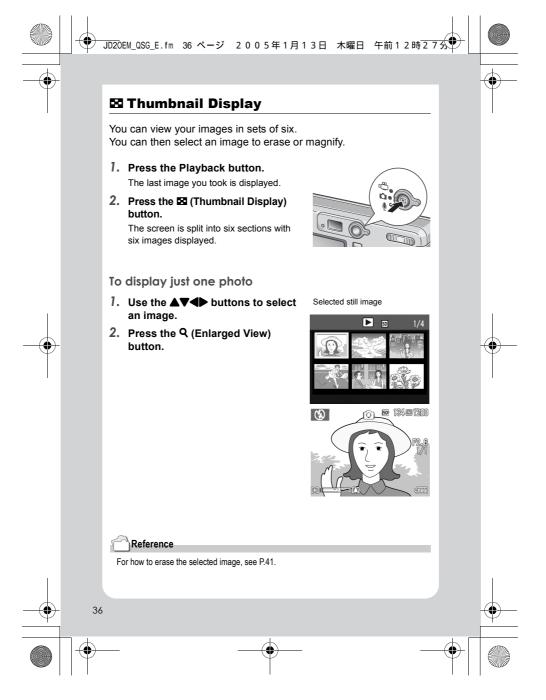












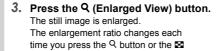






You can enlarge a still image displayed on the LCD Monitor.

- dr5: An image can be enlarged up to 8 times when its size is 2560x1920 or 2048x1356, up to 6.7 times when its size is 1280x960, and up to 3.4 times when its size is 640x480.
- dr4: An image can be enlarged up to 8 times when its size is 2304x1728, up to 6.7 times when its size is 1600x1200 or 1280x960, and up to 3.4 times when its size is 640x480.
- 1. Press the Playback button. The last image you took is displayed.
- 2. Press the buttons to display the still image you want to enlarge.



To move to a part you want to

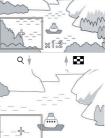
1. Move around using the ▲▼◀▶ buttons.

To return the image to its original size.

1. Press the ok button.

magnify.



















Viewing on a Television

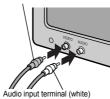
You can view still images you have taken on a TV screen. The camera displays everything on the TV screen just as it would on the LCD Monitor

To use your television for viewing, connect your camera to the television with the AV cable that came with your camera. To view still images on a television, follow the steps below.

 Securely connect the AV cable to the Video In terminal on the television.

Connect the white plug of the AV cable to the audio input terminal (white) of the TV unit and the yellow plug to the video input terminal (yellow).

Video input terminal (yellow)



- 2. Make sure the camera power is off.
- 3. Securely connect the AV cable to the Video Out terminal.



4. Set the television to "Video" mode. (Set the input to "Video".)

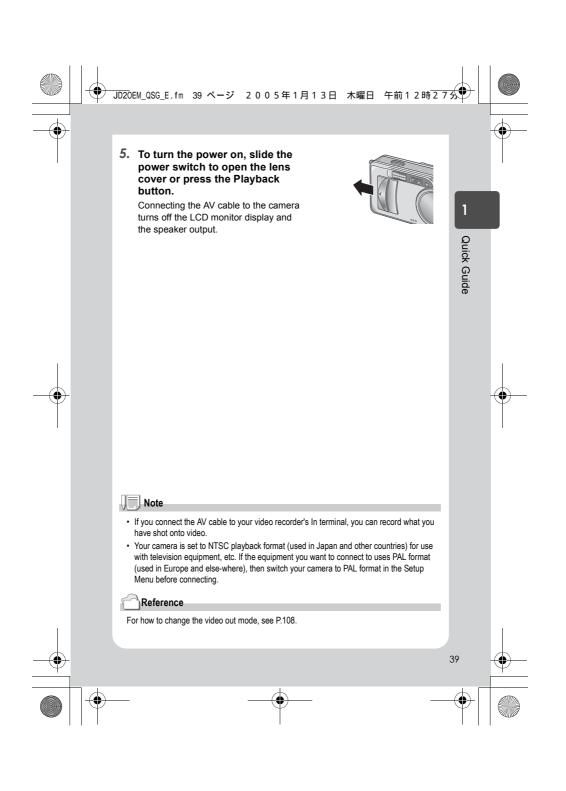
For details, see the documentation that came with the television.



















Erasing

TErasing Unwanted Images

You can erase unwanted images from the internal memory or SD Memory Card.

You can erase them in the following three ways:

- · One file at a time
- · Deleting all frames at once
- · Select multiple frames and erase together
- 1. Press the Playback button.
- To erase images one at a time, press the ◀▶ buttons to display the image you want to erase.
- 3. Press the to (Delete) button.
- ▲▼Press the ▲▼ buttons to select [DELETE ONE] or [DELETE ALL].

If you selected [DELETE ONE], you can also change the image for deletion with the ◀▶ buttons.

5. Press the ok button.

If you selected [DELETE ONE]:

6. The display indicates deletion is in progress; once finished, it returns to the screen in step 4.

If you selected [DELETE ALL]:

6. You will be prompted to confirm that you want to erase; if so, press the ▶ button to select [Yes], and then press the ok



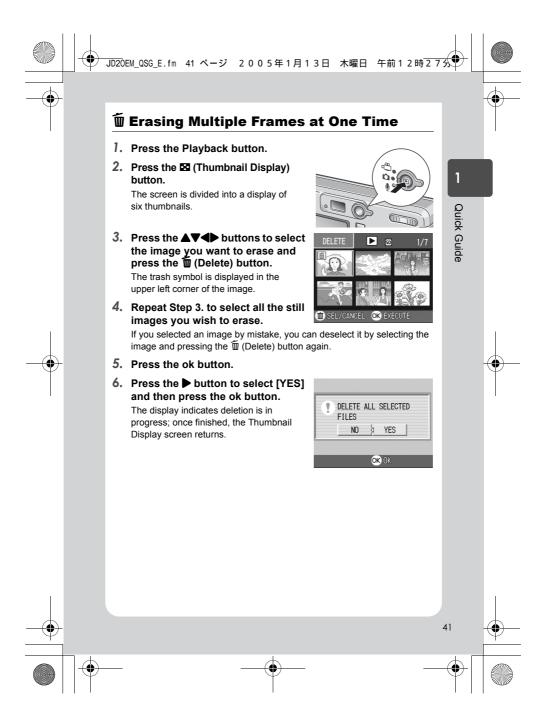






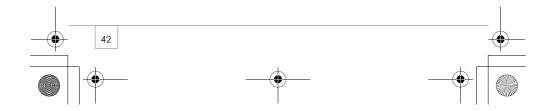


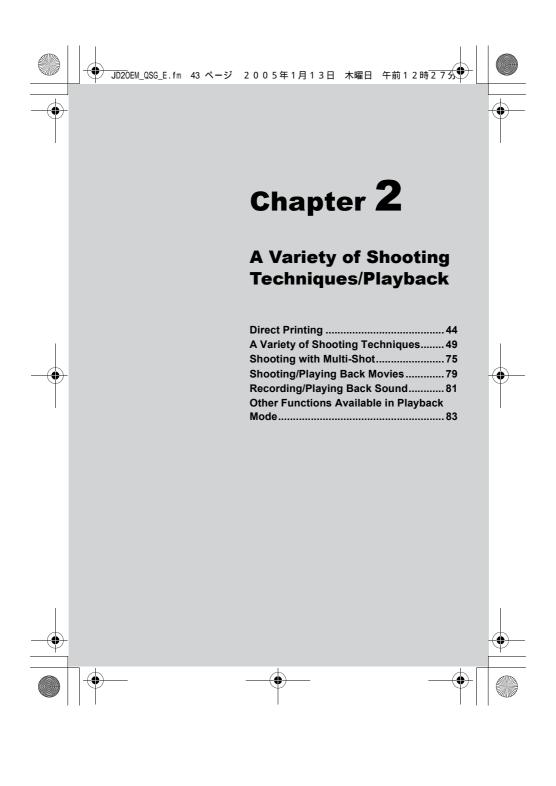




















Direct Printing

Direct Print Function

The Direct Print standard enables direct printing from a camera to a printer, by connecting them via a USB cable. Photos can be printed quickly and easily from your digital camera without using a computer.



- You cannot print movies (.AVI) with this function. For still images with sounds (.JPG and .WAV), only the still images (.JPG) are printed.
- Some printer does not support images taken in Text mode (TIFF). Even when TIFF images are printed, their printed contents cannot be guaranteed.



- This camera uses PictBridge, an industry standard for Direct Printing.
- Your printer must comply with the PictBridge to use the Direct Print function. For support information, see the documentation that came with the printer.

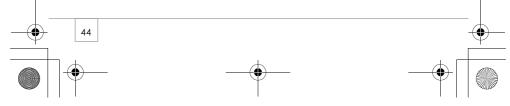
Connecting the Camera to a Printer

Connect your camera to a printer using the USB cable provided.

- 1. Make sure the camera power is off.
- Make sure the printer power is off.Load paper into the printer and check that the printer is ready to print.
- Connect one end of the USB cable provided to the USB port of your printer.
- Connect the other end of the USB cable to the USB terminal on your camera.
- 5. Turn the printer power on.



To disconnect the camera from the printer, check that the power is off on both units before disconnecting the USB cable between them.













Printing Still Images

You can send still images from the camera to a PictBridge compatible printer to print them.

Still images are sent from the internal memory when no SD memory card is loaded or from an SD memory card when one is loaded.



Do not disconnect the USB cable during printing.

Note

If a printer error message appears during transmission, check the condition of the printer, and take the appropriate action.

Printing One or All Still Images

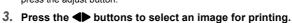
1. Check that the printer is ready for printing.

The "Connecting" screen appears.

2. Press the adjust button.

The "Connecting" screen appears. When the connection between the printer and the camera is established, the Direct Print playback mode screen appears. For some printers, the "Connecting" screen automatically appears before you press the adjust button.

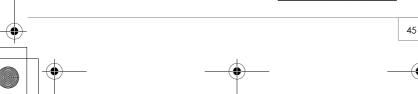




- 4. Press the adjust button.
- 5. Press the ▲▼ button to select [1 FILE] or [ALL FILES].
- 6. Press the ok button.

The Direct Print menu appears.





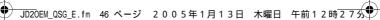












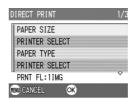




 Press the ▲▼ buttons to select an item, and then press the ▶ button to display the detailed options screen.

If there are no options available for an item, the detailed options screen does not appear even if you press the ▶ button.

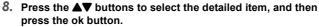
Also, items that are not available on the printer do not appear.



The following items are available:

Item Name	Function
PAPER SIZE	Sets the paper size.
PAPER TYPE	Sets the paper type.
LAYOUT	Sets the number of images printed on a sheet of paper.
DATE PRINT	Selects whether to print the date (shooting date). The date format can be set using the date/time option in the SETUP Mode.
FILE NAME PRINT	Selects whether to print the file name.
OPTIMIZE IMAGE	Selects whether to optimize the image data (still image) prior to printing on the printer.





The display returns to the Direct Print menu.

9. Repeat steps 7 and 8 to change the settings as required.

10. Press the ok button.

The selected still images are sent to the printer and the "Connecting" screen appears.

Press the menu button to cancel the operation.

At the end of transmission, the display returns to the Direct Print playback mode screen and printing starts.









Printing Several Still Images

1. Check that the printer is ready for printing.

The "Connecting" screen appears.

2. Press the adjust button.

The "Connecting" screen appears. When the connection between the printer and the camera is established, the Direct Print playback mode screen appears.

For some printers, the "Connecting" screen automatically appears before you press the adjust button.



3. Press the M (Thumbnail Display) button.

The screen is split into six sections with the still images displayed at a reduced size.

- 4. Press the ▲▼◀▶ buttons to select an image for printing.
- 5. Press the ok button.
- Press the ▲▼ buttons to set the number of copies to print.

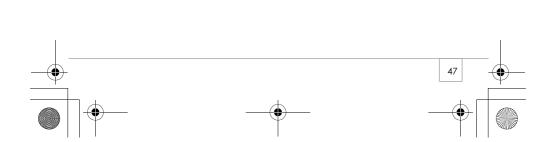
Press the ▲ button to increase the number, or the ▼ button to decrease it.



- 7. Press the **◆**▶ buttons to select an image for printing.
- 8. Press the ▲▼ buttons to set the number of copies to print.
- 9. Repeat steps 7 and 8 to select all the still images to be printed and the number of copies for each.
- 10. Press the menu button.

The Direct Print menu appears.









If there are no options available for an item, the detailed options screen does not appear even if you press the ▶ button. Also, items that are not available on the printer do not appear.

For settings available, see P.46.

12. Press the ▲▼ buttons to select the detailed item, and then press the ok button.

PRINTER SELECT

PRNT FL:1IMG

MENU CANCEL

The display returns to the Direct Print menu.

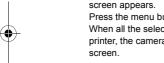
13. Repeat steps 11 and 12 to change the settings as required.

14. Press the ok button.

The selected still images are sent to the printer and the "Connecting" screen appears.

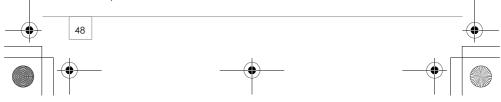
Press the menu button to cancel the operation.

When all the selected still images have been sent from the camera to the printer, the camera display returns to the Direct Print playback mode





- Only images with a printer mark (()) are printed. When you cancel printing and then try to print again, make sure that the printer mark is on the images you want to print.
- The same still image can also be printed several times on a single sheet.
- The items available vary depending on the functions of the printer.
- To print images using the printer's default settings, select Printer Setting on the detailed options screen.





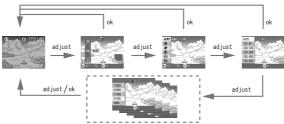




A Variety of Shooting Techniques

Using the adjust (Adjust) Button

The adjust button allows exposure correction, white balancing, and ISO sensitivity setting by fewer operations. You can also register a function other than these adjustment functions to the adjust button. If a frequently used function is registered, they can be set easily by fewer button operations.



Use the SETUP menu to register a function to the adjust button (P.99).

Adjustments Using the adjust Button

Adjustments that can be made with the adjust button differ between SCENE mode and Movie mode.

Still Image Mode	Exposure control, white balance, ISO sensitivity
	1 ' '
Movie Mode	White Balance
Scene Mode (Text Mode)	Density
Scene Mode (other than Text Mode)	Exposure control, white balance

Reference

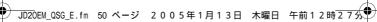
- Exposure Comp, see P.52.
- White Balance, see P.53.
- · ISO Setting, see P.55.
- Text Density, see P.56.
- For how to set a function to the adjust button, see P.99.



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A Variety of Shooting Techniques/Playback









Shooting Setting Menu

The Shooting Setting menu enables you to shoot pictures by setting the items listed in the table below.





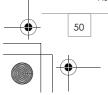


*Among the choices listed in the table below, default values at purchase are enclosed in [].

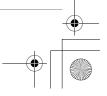
Setting	Option	Refer to
PIC QUALITY/SIZE	dr5: F2560, N2560, F2048, N2048, F1280,[N1280], N640 dr4: F2304, N2304, F1600, N1600, F1280,[N1280], N640	P.59
FOCUS	[AF], MF, SNAP, ∞	P.61
PHOTOMETRY	[MULTI], CENTRE, SPOT	P.65
SHARPNESS	SHARP, [NORMAL], SOFT	P.64
CONT. MODE	[OFF], CONT, SCONT, MCONT	P.75
AUTO BRACKET	ON, [OFF], WB-BKT	P.66
TIME EXPOSURE	[OFF], 1, 2, 4, 8 seconds	P.68
INTERVAL		P.69
IMAGE WITH SOUND	[OFF], ON	P.73
DATE IMPRINT	[Off], Date, Date and Time	P.72
EXPOSURE COMP.	-2.0 to +2.0	P.52
WHITE BALANCE	[AUTO], [AUTO]	P.53
ISO SETTING	[AUTO], ISO64, ISO100, ISO200, ISO400, ISO800	P.55
SLOW SHUTTER LMT	[OFF], ON	P.71
RESTORE DEFAULTS		P.74

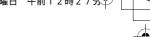


The SETUP menu can be accessed from within the Shooting Setting menu. For details, see $P.94\,$







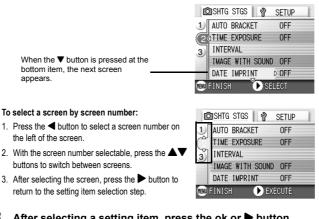




Using the Shooting Setting Menu

- 1. With the camera ready to shoot, press the menu button. The Shooting Setting menu appears.
- 2. Press the ▲▼ buttons to select the desired item.

The setting items are provided on three screens.



3. After selecting a setting item, press the ok or ▶ button. Choices for the setting item are displayed.

- 4. Press the ▲▼ buttons to select a choice.
- 5. Press the ok or ◀ button.
- If you pressed the

 button in step 5, press also the menu button.

The Shooting Setting menu disappears and the camera becomes ready for shooting.



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A Variety of Shooting Techniques/Playback









Changing the Exposure (EXPOSURE COMP.)

The exposure setting allows you to select brightness levels for your shots. Normally, if your subject is centered, backlight compensation is automatically activated, and you can shoot with correct exposure.

However, in the following cases, or when you intentionally want to change the exposure, you can change the exposure setting. Exposure can be specified in the range from -2.0 to +2.0. Setting the level higher (+) makes pictures brighter and lower (-) makes pictures darker.

For Backlighting

When the background is particularly bright, the subject will be dark (underexposure). In this case, set the exposure level higher (+).

When your subject is whitish

It will turn out entirely dark (underexposure). Set the exposure level higher (+).

When your subject is darkish

It will turn out entirely bright (overexposure). Set the exposure level lower (-). The same happens when you take photos of people in a spotlight.

To change the setting, use either the Shooting Setting menu or the adjust button. This section explains easy ways with the adjust button.

When using the Shooting Setting menu, see "Using the Shooting Setting Menu" (P.51).



2. Press the adjust button.

The Exposure Compensation bar appears.

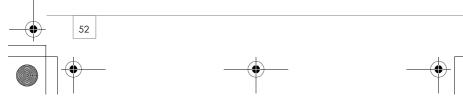
3. Press the ▲▼ buttons and specify a value.

4. Press the ok button.

Exposure Compensation settings are completed and the setting value appears in the right-hand portion of the screen.



When shooting in particularly bright places, you may fail in preventing overexposure. In that case, the [!AE] symbol will be displayed.









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Adjust the white balance so that a white subject may be reproduced as white. At purchase, the White Balance is set to "AUTO"; normally you do not need to change the setting, but if the camera is having difficulty determining the white balance when shooting an object of a single color or under several light sources, you can change the setting.

Types of Modes You Can Select			
Symbol	Mode Description		
AUTO	Auto	Make adjustments automatically.	
	Daylight	Select when shooting outdoors (Sunny) and White Balance fails to adjust properly.	
F	Overcast	Select when shooting in cloudy weather or shade and the White Balance fails to adjust properly.	
,Ō,	Tungsten light	Select when shooting under tungsten light and White Balance fails to adjust properly.	
\	Fluorescent light	Select when shooting under fluorescent light and White Balance fails to adjust properly.	
M	One-push	Manually set White Balance.	

To change the setting, use either the Shooting Setting menu or the adjust button. This section explains easy ways with the adjust button. When using the Shooting Setting menu, see "Using the Shooting Setting Menu" (P.51).

- 1. Turn the Mode Selector to **Q**.
- 2. Press the adjust Button three times.

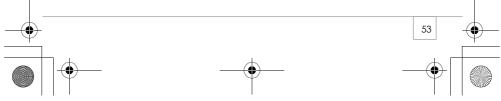
The White Balance menu appears.

You can also press the shutter button in this state.

4. Press the ok button.

White Balance settings are completed and the symbol appears on the screen. This setting will be used for shooting until you change it.





A Variety of Shooting Techniques/Playback











Setting the White Balance Manually (One Push)

- 1. Turn the Mode Selector to .
- 2. Press the adjust Button twice.

The White Balance menu appears.

- Press the ▲▼ buttons to select
 (One Push).
- Point the camera at a piece of paper or something white under the lighting conditions for your picture.



5. Press the ▶ button.

White Balance is set.

6. Press the ok button.

White Balance settings are completed and the symbol appears in the upper left of the screen.

This setting will be used for shooting until you change it.

If you press the ▶ button in step 5, the screen refreshes to show the White

Balance settings made. If the result is not as expected, repeat steps 4 and 5 to change the settings as many times as required.



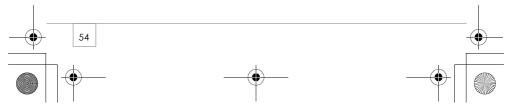




- In Auto Mode, white balance may not be adjusted correctly for a subject mostly dark. In this
 case, add something white as the subject.
- When shooting with flash, white balance may not be adjusted correctly in Daylight, Overcast, Tungsten light, or One Push mode. In this case, switch to Auto Mode for shooting with flash.



When shooting with flash in a mode other than Auto, the white balance may not be adjusted correctly.









The ISO sensitivity indicates how sensitive to light the film is. A greater value means higher sensitivity. High sensitivity is suitable for shooting an object in a dark place or moving fast and suppresses blurring. However, the images become rough.

For higher or lower sensitivity, you can select from the following six levels:

AUTO, ISO64, ISO100, ISO200, ISO400, ISO800

A digital camera can automatically vary the sensitivity according to the distance, brightness, zoom, and macro (AUTO). Usually use your camera in the AUTO mode.

To change the setting, use either the Shooting Setting menu or the adjust button.

This section explains easy ways with the adjust button.

When using the Shooting Setting menu, see "Using the Shooting Setting Menu" (P.51).

1. Turn the Mode Selector to .

2. Press the adjust Button three times.

The ISO Sensitivity menu appears.

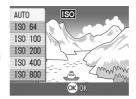
Press the ▲▼ buttons to select an ISO setting.

You can also press the shutter button in this state.

4. Press the ok button.

The ISO Sensitivity settings are completed and the setting value appears in the right-hand portion of the screen.

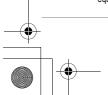
This setting will be used for shooting until you change it.







In Wide-angle Zoom mode, when the ISO Sensitivity is set to Auto, the sensitivity is equivalent to ISO160 with flash or ISO100 without flash.







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A Variety of Shooting Techniques/Playbach







Changing Shading for Shooting Text (DENSITY)

You can change the shading of text for shooting in Text Mode of Scene Mode.

You can select from DEEP, NORMAL and LIGHT.

To change the setting, use either the Shooting Setting menu or the adjust button. This section explains easy ways with the adjust button.

When using the Shooting Setting menu, see "Using the Shooting Setting Menu" (P.51).

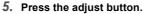
- 1. Turn the Mode Selector to 🗅.
- 2. Press the ▲ button.

The still image mode selection screen appears.

- 3. Press the ▼ button to move to the SCENE menu.
- 4. Press the ◆▶ buttons to select the text mode and then press the ok button.







The Text Density menu appears.

6. Press the ▲▼ buttons to select the desired density setting.

You can also press the shutter button in this state

7. Press the ok button.

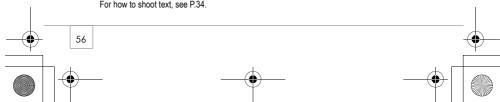
Text Density settings are completed.

The Text Density setting value does not appear on the screen. This setting will be used for shooting until you change it.





For how to shoot text, see P.34.













Three images are automatically recorded - a reddish image, a bluish image, and an image of the current white balance.

This is useful if the appropriate white balance cannot be judged.

- 1. Turn the Mode Selector to .
- 2. Press the menu button.

The Shooting Setting menu appears.

- 3. Press the ▼ button to select [AUTO BRACKET] and press the ok or ▶ button.
- 4. Press the ▲▼ buttons to select [WB-BKT].
- 5. Press the ok or ◀ button.

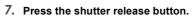
White Balance Bracket settings are complete.





6. If you pressed the ◀ button in step 5, press also the menu button.

The Shooting Setting menu disappears and the screen displays [WB-BKT].

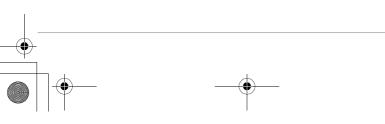


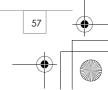
Three images (reddish, bluish, and equal to the current white balance) are automatically recorded.

This setting will be used for shooting until you change it or you turn the power off.

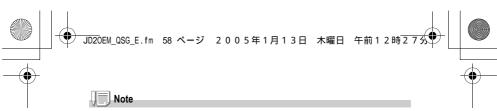










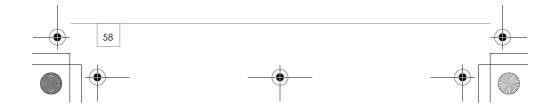


- This function is not available for Multi-Shot shooting (P.75) and Auto Bracket shooting (P.66).
 The flash cannot be used.
- Time Exposure (P.68) is set to OFF.



For how to change the White Balance, see P.53.











The size of a stored still image and movie file depends on picture quality and size settings.

In Picture Quality Mode, there are two types, N (Normal) and F (Fine).

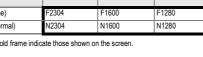
Types of M	Types of Modes You Can Select		
Symbol	Mode	Description	
N	Normal Mode	The compression ratio is high, resulting in a small file. Normally, shooting is done in this mode.	
E	Fine Mode	The compression ratio is low, resulting in a large file, but the picture quality is better than in Normal Mode.	

Combining Picture Quality Mode and Image Size.

dr5		Size	Size			
		2560 X 1920	2048 X 1536	1280 X 960	640 X 480	
Mode	F (Fine)	F2560	F2048	F1280	-	
	N (Normal)	N2560	N2048	N1280	N640	

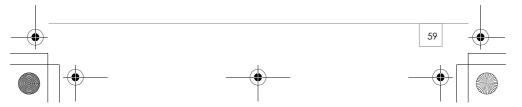
dr4		Size	Size			
uii	WIT .		1600 X 1200	1280 X 960	640 X 480	
Mode	F (Fine)	F2304	F1600	F1280	-	
	N (Normal)	N2304	N1600	N1280	N640	

Figures inside the bold frame indicate those shown on the screen.



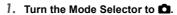


For internal memory/SD memory card recording capacities, see P.144.



A Variety of Shooting Techniques/Playback





2. Press the menu button.

The Shooting Setting menu appears.

- Press the ▼button to select [PIC QUALITY/SIZE] and press the ok or ▶ button.
- Press the ▲▼ buttons to select a picture quality/size.
- 5. Press the ok or ▶ button.

Picture Quality/Image Size settings are completed.



Still Image Mode(dr5)



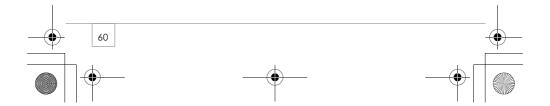
Still Image Mode(dr4)

The Shooting Setting menu closes and the setting value appears on the upper right of the screen.

This setting will be used for shooting until you change it.



Movie Mode











When Auto-Focus does not focus as desired, you can focus manually (Manual Focus).

Manual focusing allows shooting at a fixed distance. When using a fixed shooting distance, it can be set to either Snapshot or Infinity (∞) .



- Manual focus cannot be used in Scene Mode.
- Manual focusing can focus the camera also on an object that requires macro shooting.
- 1. Turn the Mode Selector to 🗅.
- 2. Press the menu button.

The Shooting Setting menu appears.

- Press the ▼ button to select [FOCUS] and press the ok or ▶ button.
- Press the ▲▼ buttons to select [MF].
- 5. Press the ok or ◀ button.

Focus settings are complete.

If you pressed the

■ button in step 5, press also the menu button.

The Menu closes and "MF" is displayed on the screen.

You can display the enlarged view by pressing the ▶ button.

Pressing the ok button alternates the display between the focus bar and the zoom bar. For manual focusing, display the focus bar by pressing the ok button.





A Variety of Shooting Techniques/Playback





Variety of Shooting Techniques/Dlavh









7. Press the tele/wide buttons to focus the camera.

If you press the tele button, the focus moves further away.

If you press the wide button, the focus moves closer.

Manual Focus is used for shooting until you change the settings.

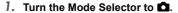


- By pressing the ok button, you can operate the zoom bar with the tele/wide buttons.
- At interval shooting, the ok button cannot be used to operate zooming or switch to manual focusing.

Shooting at a Fixed Distance

The shooting distance can be set to short distance or infinity. Infinity is useful to shoot a distant view.

To shoot with the shooting distance fixed, follow the steps below.



2. Press the menu button.

The Shooting Setting menu appears.

- Press the ▼ button to select [FOCUS] and press the ok or ▶ button.
- Press the ▲▼ buttons to select [SNAP] or [∞] (Infinity).

Selecting [SNAP] will fix the shooting distance to 2.5 meters.

Selecting $[\infty]$ will fix the shooting distance to infinity.



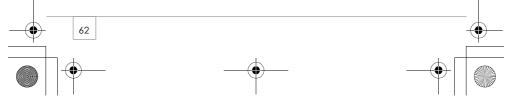
5. Press the ok or ◀ button.

Focus settings are complete.

If you pressed the ◀ button in step 5, press also the menu button.

The Shooting Setting menu closes and the setting value appears on the screen.

This setting will be used for shooting until you change it.











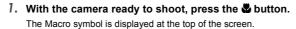
At macro shooting, the AF target shift function allows you to lock the focus (P.29) by using the ▲▼◀▶ buttons on the camera without moving the camera.

This is useful for macro shooting on a tripod with locked focus. The AF target shift function allows you to shift the cross at the center of the LCD monitor to the subject with the $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$ buttons for focusing.









2. Press the adjust Button four times.

Press five times if the adjust button has the fourth function.



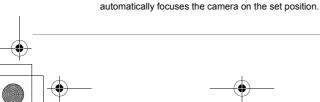
- 3. Shift the cross to the subject with the ▲▼◀▶ buttons for focusing.
- 4. Press the ok button.
- **5.** Half-press the shutter button The camera focuses on the cross.

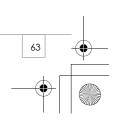
The camera locuses on the cross.

Gently press the shutter button all the way.

Until you get out of the Macro mode, the AF target shift function automatically focuses the camera on the set position.

















You can change the definition of your still images to either sharp or soft.

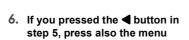
- 1. Turn the Mode Selector to 🗅.
- 2. Press the menu button.

The Shooting Setting menu appears.

- Press the ▼ button to select [SHARPNESS] and press the ok or ▶ button.
- Press the ▲▼ buttons to select the desired setting.
- 5. Press the ok or ◀ button.

Sharpness settings are complete.





button.The Shooting Setting menu disappears and the setting value appears.

This setting will be used for shooting until you change it.











You can change the metering method (the range to use for metering) to determine the exposure value.

Changing the Light Metering (PHOTOMETRY)

There are three Light Metering Methods available: MULTI, CENTER, and

Types of Modes You Can Select			
Symbol	Mode	Description	
(No Symbol)	MULTI	The entire shooting range is divided into 256 partitions, and subjected to photometry for overall decision.	
	CENTER	The light metering is determined by a measurement of the whole, with the central part emphasized. Use this when the brightness of the center and surroundings are different.	
	SPOT	Light metering is determined by measuring only the central part. Use this setting when you want to use the brightness of the center. It is useful if there is marked difference in contrast or backlighting.	

1. Turn the Mode Selector to .

2. Press the menu button.

The Shooting Setting menu appears.

- 3. Press the ▼ button to select [PHOTOMETRY] and press the ok or ▶ button.
- 4. Press the ▲▼ buttons to select the desired setting.
- 5. Press the ok or ◀ button.

Light Metering Method setting is complete.

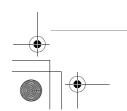
6. If you pressed the **◄** button in step 5, press also the menu button.

The Shooting Setting menu disappears and the setting value appears. This setting will be used for shooting until you change it.



























Shooting Consecutively with Different Exposures (AUTO BRACKET)

The Auto Bracketing function automatically shoots three consecutive shots, with the specified exposure value as standard, at three exposure levels, at -0.5EV, ±0, and +0.5EV.



This function is not available when shooting with sound.

- 1. Turn the Mode Selector to .
- 2. Press the menu button.

The Shooting Setting menu appears.

- Press the ▼ button to select [AUTO BRACKET] and press the ok or ▶ button.
- Select [ON] and then press the ok or ■ button.

The Shooting Menu closes and [AB] is displayed on the right side of the screen.



Three consecutive shots are taken, with the specified Exposure Compensation value as the standard, at -0.5EV, ± 0 , and +0.5EV.

After shooting, three still images are displayed on the LCD Monitor. They are, from the left, at -0.5EV (darker), standard compensation, and +0.5EV (brighter).

This setting will be used for shooting until you change it or you turn the power off.

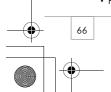




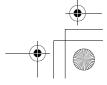


Reference

- For how to change the Exposure Compensation, see P.52.
- $\bullet\,$ For how to change the White Balance, see P.53.













OUsing the Self-Timer

You can set the Self-timer to shoot after either two or ten seconds. A setting of two seconds is useful for preventing camera shake.

1. Turn the Mode Selector to

2. Press the 🕲 (Self-timer) button.

The Self Timer mark appears momentarily in a large size at the center of the LCD monitor and then is displayed at the upper left

The "10" to the right of the symbol indicates the number of seconds. In this case, if you press the shutter button, the camera will shoot after 10 seconds.



2

A Variety of Shooting Techniques/Playback

3. Press the shutter release button.

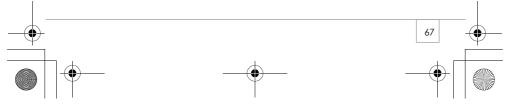
The focus is locked, the flash goes on, and the self-timer starts. Once the picture is taken, the self-timer mode is cleared.







- Each press of the ⊗ (Self-timer) button, it selects a function in the following sequence: 10 sec, 2 sec, Self-timer Off, 10 sec, 2 sec.
- Self-timer settings are released when the power is turned off.
- When the self-timer is set to 2 seconds, the flash for self-timer does not fire.











Using Long Time Exposure (TIME EXPOSURE)

You can select an exposure time of 1, 2, 4 or 8 seconds. By using long time exposure, you can capture the track of moving subjects such as fireworks and car lights, when you shoot a night scene.

- 1. Turn the Mode Selector to .
- 2. Press the menu button.

The Shooting Setting menu appears.

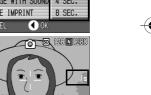
- 3. Press the ▼ button to select [TIME EXPOSURE] and press the ok or ▶ button.
- ▲▼Press the ▲▼buttons to select the exposure time.
- Press the ok or

 button.
 This completes the setting of time exposure.
- If you pressed the

 button in step 5, press also the menu button.

The Shooting Setting menu disappears and the setting value appears. This setting will be used for shooting until you change it.

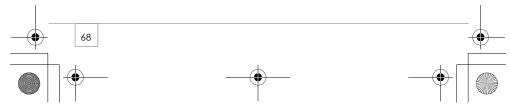








- When using long time exposure, the shutter speed may go down and images may be blurred. Hold the camera securely by both hands or use a tripod for shooting.
- · While shooting with long time exposure, the LCD Monitor display turns off.







Shooting Pictures Automatically at Set Intervals (INTERVAL)

You can set the camera to automatically take pictures at fixed intervals.

You can set the shooting interval at any length from 30 seconds to 3 hours, in increments of 30 seconds.

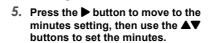
- 1. Turn the Mode Selector to .
- 2. Press the menu button. The Shooting Setting menu appears.
- 3. Press the ▼ button to select [INTERVAL] and press the ok or ▶ button.



OO TIME OO MIN. OO SEC.

Automatically shoots at the set interval





- 6. Press the ▶ button to move to the seconds setting, then use the $\blacktriangle \blacktriangledown$ buttons to set the seconds.
- 7. Press the ok button.

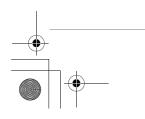
The setting of interval shooting is completed and "Interval" appears on the upper-right of the screen.

8. Press the shutter release button.

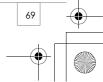
A picture is taken every time the fixed interval elapses.













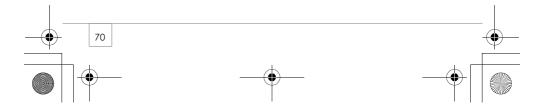








- In step 5, press and hold either the ▲ or ▼ button to quickly raise or lower the setting value for minute.
- Even during Interval Shooting, if you press the shutter button, the camera will shoot as usual. However, Interval Shooting Mode is unaffected. After shooting, once the time specified in Interval Shooting elapses, the next shot is taken.
- Depending on Picture Quality Mode and Flash Mode settings, the shooting interval may become longer than the time set.
- When Interval Shooting is on, even when Multi-Shot is set to [CONT] or [MCONT], consecutive shooting is automatically switched off.







Limiting the Shutter Release Speed (SLOW SHUTTER LMT)

By setting this function to [ON], the maximum shutter release speed can be limited to the following:

In Wide-Angle (Wide): 1/8 second In Telephoto (T): 1/30 second

When the function is set to [OFF], the maximum shutter release speed is 1 second.

- 1. Turn the Mode Selector to 🗅.
- 2. Press the menu button.

The Shooting Setting menu appears.

- 3. Press the ▼ button to select [SLOW SHUTTER LMT] and press the ok or button.
- 4. Press the ▲▼ buttons to select [ON] or [OFF].
- 5. Press the ok or ◀ button.

The setting of shutter release speed limit is complete.

6. If you pressed the ◀ button in step 5, press also the menu

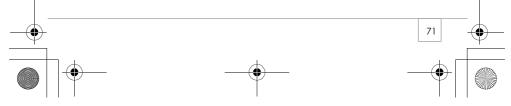
The Shooting Setting menu disappears and the setting value appears. This setting will be used for shooting until you change it.







- $\bullet\,$ When Time Exposure is set to ON, priority is given to Time Exposure.
- $\bullet \ \ \text{When Nightscape is selected in Scene Mode, priority is given to Nightscape}.$
- · When the flash is in Slow Synchro mode, the longest shutter speed is one second.







You can insert the date (YY/MM/DD) or the date and time (YY/MM/DD hh:mm) at the lower right of a still image.

- 1. Turn the Mode Selector to 🗖.
- 2. Press the menu button.

(DATE IMPRINT)

The Shooting Setting menu appears.

- Press the ▼ button to select [DATE IMPRINT] and then press the ok or ▶ button.
- Press the ▲▼ buttons to select the desired setting.
- 5. Press the ok or ◀ button.

The Date Imprint settings are completed.



If you pressed the

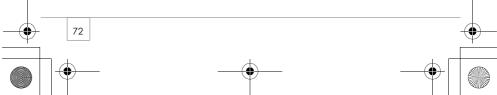
■ button in step 5, press also the menu button.

The Shooting Setting menu closes and present appears at the left part of the screen. This setting will be used for shooting until you change it.





- If the date and time have not been set, DATE IMPRINT cannot be used. First make the date and time settings (P.106).
- DATE IMPRINT cannot be used with movies.
- A thumbnail image is not displayed with a date.











Shooting a Still Image with Sound (IMAGE WITH SOUND)

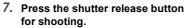
You can shoot a still image with a voice memo. Voice recording can continue for up to eight seconds.

- 1. Turn the Mode Selector to 🗅.
- 2. Press the menu button.

The Shooting Setting menu appears.

- 3. Press the ▼ button to select [IMAGE WITH SOUND] and then press the ok or ▶ button.
- 4. Press the ▲▼ buttons to select [ON].
- 5. Press the ok or ◀ button.
- 6. If you pressed the ◀ button in step 5, press also the menu button.

The Shooting Setting menu disappears.



After shooting, the voice mark appears on the screen to indicate the recording

8. Press the shutter release button to stop recording.





A Variety of Shooting Techniques/Playback



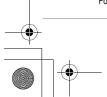


When playing back a still image with sound, display the image in the same way as an ordinary image without voice. Pressing the ok button plays back the sound.

Press the $\blacktriangle \blacktriangledown$ buttons to display the volume adjustment bar, where you can adjust the volume with the ▲▼ buttons.



For how to display still images, see P.35.











Settings to their Defaults (RESTORE DEFAULTS)

- To return the Shooting Setting menu settings to their defaults, follow the steps below.
- 1. Turn the Mode Selector to 🗅.
- 2. Press the menu button.
- Press the ▲▼ buttons to select [RESTORE DEFAULTS] and press the ok or ▶ button.
- 4. Make sure that [YES] is selected, and then press the ok button.

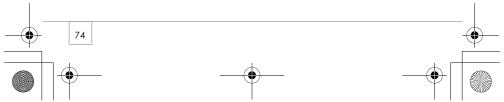
The display indicates the camera is restoring the initial settings; once it is finished, the display returns to the Mode screen.







For a list of functions whose settings are not cleared by power-off, see P.143.







Shooting with Multi-Shot

If you switch to Multi-Shot, you can shoot consecutive images. Multi-shot can be classified into the following types:

CONT (Multi-Shot)

As long as you hold the shutter button down, pictures continue to be taken. The still images are recorded one file each, just as in normal shooting.



S (Stream) Multi-Shot

With just one full-press of the shutter, you can take 16 consecutive shots at intervals of 1/7 second (in about 2.2 seconds). The 16 still images are grouped together as a set and are recorded as one image file (dr5: 2560 x 1920 pixels, dr4: 2304 x 1728 pixels).



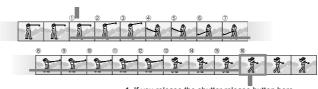


M (Memory-reversal) Multi-Shot

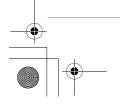
The camera memorizes the scene while you hold the shutter release button down, and once you release it the previous 2.2 seconds of shots are recorded.

The 16 still images are grouped together as a set and are recorded as one image file (dr5: 2560 x 1920 pixels, dr4: 2304 x 1728 pixels).

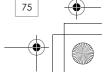
2. The camera records for about 2.2 seconds ahead



1. If you release the shutter release button here...



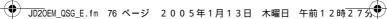


















- When shooting with S Multi- or M Multi-Shot, the ISO sensitivity is fixed to AUTO even if it is set to 64,100.
- The maximum number of images that can be shot in the Multi-Shot mode depends on the image size setting as follows:

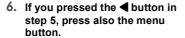
dr5	F2560	N2560	F2048	N2048	F1280	N1280	N640
lais .	3	3	3	3	13	13	13
dr4	F2304	N2304	F1600	N1600	F1280	N1280	N640

- 1. Turn the Mode Selector to 🗅.
- 2. Press the menu button.

The Shooting Setting menu appears.

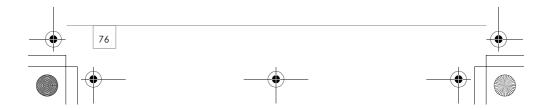
- Press the ▼ button to select [CONT] and press the ok or ▶ button.
- Press the ▲▼ buttons to select [CONT], [SCONT], or [MCONT].
- 5. Press the ok or ◀ button.





The Shooting Setting menu closes and the symbol is displayed at the top of the screen.







A Variety of Shooting Techniques/Playback









☐ CONT

Compose your picture, then press and hold the shutter button.

As long as you hold the shutter button down, pictures continue to be taken.

8. Release your finger from the shutter release button to stop memorizing.

To playback consecutive images shot in Multi-Shot mode, turn the camera to playback mode (see P.35) and select the still image with the ◀▶ buttons for playback.

S SCONT (S Multi-Shot)

Compose your picture, then press the shutter button.
 pictures are taken automatically.



MCONT (M Multi-Shot)

7. Compose your picture, then press and hold the shutter button.

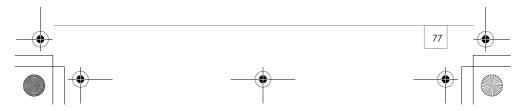
The camera memorizes the scene while you hold the shutter release button down.

8. Release your finger from the shutter release button.

The camera stops memorizing and the previous 16 still images (in about 2.2 seconds) are recorded as one still image.



- When you want to return to normal single-shot shooting, follow step 1 through 3, select [OFF] in step 4, and press the ok button.
- In MCONT mode, if you release the shutter button within 2.2 seconds from the time you
 first pressed it, the shots from the time you pressed the shutter until you released it will be
 recorded (the number of consecutive shots will be less than 16).
- Flash is switched to OFF.









Viewing an S Multi-Shot or M Multi-Shot Still Image in Enlarged Display Mode

While still images (16 frames in a file) taken by SCONT or MCONT are displayed, one of the 16 frames can be displayed in an enlarged view. While viewing an enlarged frame image, you can switch between frames.

To view a shot from S Multi-Shot or M Multi-Shot still images in Enlarged Display Mode, follow the steps below.

1. Press the Playback button.

The last shot taken is displayed.

 Press the ◆▶ buttons to display an S Multi-Shot or M Multi-Shot still image.





3. Press the Q (Enlarged Display) button.

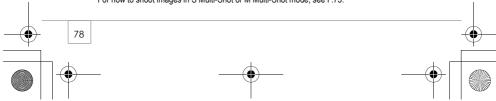
The first frame of consecutive images is displayed in Enlarged Display Mode. The shot position bar appears at the lower part of the LCD monitor. Press the ◀▶ buttons to feed the shot. To return to the 16-shot display, press the ok button.



Press the disp button to turn on or off the bar display at the lower part of the LCD moitor.



For how to shoot images in S Multi-Shot or M Multi-Shot mode, see P.75.









Shooting/Playing Back Movies

C Shooting Movies

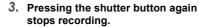
You can shoot movies with sound.

You can select the image size, either 320 x 240 or 160 x 120 pixels. Each movie you shoot is recorded as one AVI file.

1. Turn the Mode Selector to 🖰 (Movie Mode).

2. Press the shutter release button.

The camera starts recording. Recording continues until you press the shutter button again.







Caution

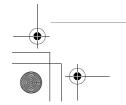
- While shooting movies, operation sounds may be recorded.
- The maximum recording time per shooting depends on your card. Even within the maximum recording time, some card may end shooting.



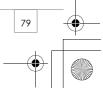
- · The flash cannot be used.
- While shooting movies, only Digital Zoom can be used.
- At the time you press the shutter button in Step 2, the shot comes into focus and the white balance is automatically fixed.
- The remaining recording time may not change uniformly because it is recalculated from the remaining memory capacity during movie recording.



- For how to change the image size for movies, see P.59.
- For how to use the Digital Zoom, see P.31.







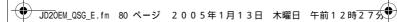
















Playing Back Movies

To playback movies, follow the steps below.

1. Press the Playback button.

The last shot taken is displayed. For movies, the first frame is displayed as a still image.

2. Move to the movie you want to view using the ◀▶ buttons.

Press the ▶ button to display the next file.

Press the ◀ button to display the previous file.



3. Press the ok button.

Playback begins.

The elapsed playback indicator or the elapsed time is displayed on the LCD Monitor.

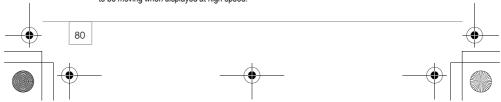


Fast Forward	Press the tele button during playback.
Rewind	Press the wide button during playback.
Pause/Playback	Press the ok button.
Slow Playback	Go on pressing the tele button during pause.
Slow Rewind	Go on pressing the wide button during pause.
Next Frame	Press the ▶ button during pause.
Previous Frame	Press the ◀ button during pause.
Volume Adjustment	Press the ▲▼ buttons during playback.



Movie Frames

A movie frame is also called a frame. Movies consist of many frames whose images appear to be moving when displayed at high speed.









Recording/Playing Back Sound

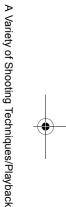
You can record sound. Recorded data is stored as a WAV file.

Turn the Mode Selector to
 (Voice Memo Mode).



- **2. Press the shutter release button.** Sound recording starts.
- 3. Release your finger from the shutter release button to stop recording.



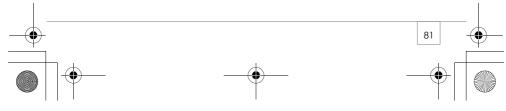




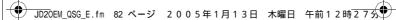


The voice recording time depends on the capacity of the SD memory card. The table below shows the available recording time.

Capacity	Recording Time
12MB (Internal memory)	dr5: 26 min 10 s dr4: 26 min 15 s
32MB	64 min 38 s
64MB	132 min 13 s
128MB	267 min 17 s
256MB	532 min 38 s
512MB	1073 min 11 s











Playing Back Sound

To playback sounds, follow the steps below.

1. Press the Playback button.

The last shot taken is displayed.

 Press the ◀▶ buttons to select a sound file for playback (speaker icon).

Press the ▶ button to display the next file.

Press the ◀ button to display the previous file.

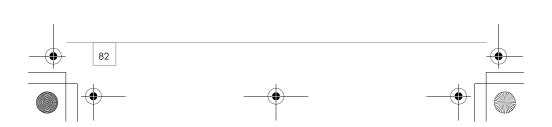


3. Press the ok button.

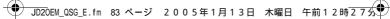
Playback begins.



Fast Forward	Press the tele button during playback.
Rewind	Press the wide button during playback.
Pause/Playback	Press the ok button.
Volume Adjustment	Press the ▲▼ buttons during playback.







Other Functions Available in Playback Mode

Playback Setting Menu

The Playback menu provides the functions shown in the table below:

Setting	Option	Refer to
SLIDE SHOW		P.84
PROTECT	Select/Deselect 1 FILE, Select/Deselect ALL FILES, Select Multi-files	P.85
DPOF	Select/Deselect 1 FILE, Select/Deselect ALL FILES, Select Multi-files	P.88
RESIZE	1280, 640	P.91
COPY TO CARD		P.92



The SETUP menu can be accessed from within the Playback Setting menu. For details, see P.94.

Using the Playback Menu

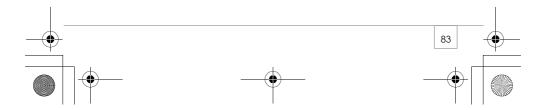
- Press the Playback button to turn the camera to playback mode.
- 2. Press the menu button.

The Playback menu appears.

- Press the ▲▼ buttons to select the desired setting.
- After selecting a setting item, press the ok or ▶ button.

Each function screen appears.









You can show the recorded still images, movies, and sound files sequentially on the LCD Monitor. This function is called a slide show. To view a slide show, follow the steps below.

1. Press the Playback button.

The last shot taken is displayed.

2. Press the menu button.

The Playback menu appears.

 Make sure that [SLIDE SHOW] is selected, and then press the ok or ▶ button.

The slide show starts and files are played back in order.

If you want to stop the slide show in progress, press any button on the camera.

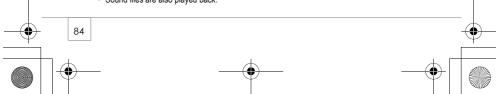
Until stopped, the slide show will repeat itself.







- Still images are displayed for 3 seconds each.
- · For movies, not just one frame, but the entire movie you shot is displayed.
- Sound files are also played back.



Write-protecting Your Images (PROTECT)

You can protect files from being accidentally deleted.



Protected files cannot be deleted normally. However, they will be deleted completely if you format the memory where the files are stored.

Protecting Files

1. Press the Playback button.

The last shot taken is displayed.

- Press the ◀▶ buttons to display the file you want to protect.
- 3. Press the menu button.

The Playback Setting menu appears.

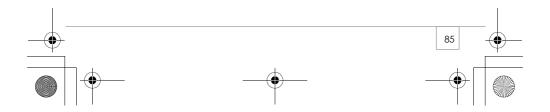
 Press the ▼ button to select [PROTECT] and press the ok or ▶ button.

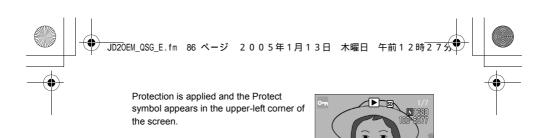


Make sure that [1 FILE] is selected, and then press the ok button.



A Variety of Shooting Techniques/Playback





Protecting All Files

To protect all your files, follow the steps below.

- 1. Press the Playback button.
- 2. Press the menu button.

The Playback menu appears.

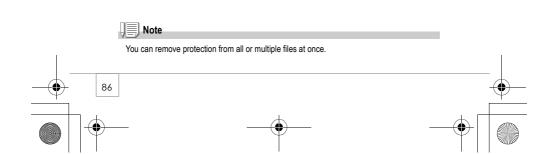
- Press the ▼ button to select [PROTECT] and press the ok or ▶ button.
- Press the ▲▼ button to select [ALL FILES].
- Make sure that [SELECT] is selected, and then press the ok button.

Protection is applied and the Protect symbol appears in the upper-left corner of the screen.

To remove protection from all your files, select [CANCEL] in step 5.

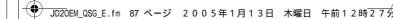














To protect selected files all at once, follow the steps below.

- 1. Press the Playback button.
- 2. Press the (Thumbnail Display) button.

The screen is split into six sections and thumbnail images are displayed in a reduced size.

- 3. Press the ▲▼◀▶ buttons to select the first file of the selection.

1 SLIDE SHOW

PROTECT

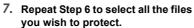
DPOF

RESIZE

COPY TO CARD MENU FINISH

Press the ▲▼◀▶ buttons to select the next file of the selection, and then press the ok button.

The Protect symbol appears in the upperright corner of the file.



If you selected a file by mistake, you can deselect by selecting the file and pressing the ok button again.

8. Press the menu button.

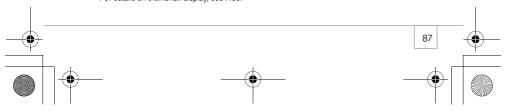
The display indicates that the selected images are being processed; once finished, the display returns to the Thumbnail Display screen.

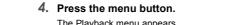


To remove protection from multiple files, follow the same steps described above to select them and remove protection.

Reference

For details on thumbnail display, see P.36.





The Playback menu appears. 5. Press the ▼ button to select [PROTECT] and press the ok or button. ▶PLBK STGS 🏻 🕈 SETUP





The still images recorded on an SD Memory Card can be printed out if you take them to a shop that offers a digital camera print service. To use a print service, it is necessary to make settings required for printing. These settings are called DPOF (Dee-Pof) settings. The DPOF setting specifies one print per still image. However, if multiple images are selected for batch setting, you can specify the number of copies to print.

Setting DPOF for the Still Image Displayed

- 1. Press the Playback button.
- 2. Display the still image you want to specify.
- 3. Press the menu button.

The Playback Setting menu appears.

4. Press the ▼ button to select [DPOF] and press the ok or ▶ button.



5. Make sure that [1 FILE] is selected, and then press the ok button.

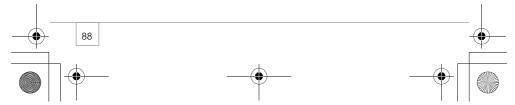
Once the DPOF setting is made, the DPOF symbol appears in the upper-left portion of the screen.







Removing the DPOF setting for one photo at a time is done in the same way as setting it.



Setting DPOF for All Still Images

To apply DPOF settings to all your still images, follow the steps

- 1. Press the Playback button.
- 2. Press the menu button.

The Playback menu appears.

- 3. Press the ▼ button to select [DPOF] and press the ok or ▶ button.
- 4. Press the ▲▼ buttons to select [ALL FILES].
- 5. Make sure that [SELECT] is selected, and then press the ok

Once the DPOF setting is made, the DPOF symbol appears in the upper-left portion of the screen.



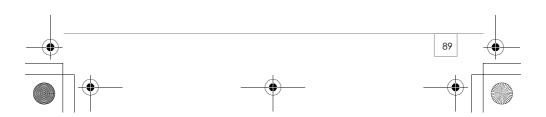






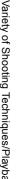
- To remove the DPOF setting from all your still images, select [CANCEL] in step 5.
- You can remove all or multiple still image DPOF settings at once.













1. Press the Playback button.

the steps below.

2. Press the
(Thumbnail Display) button.

The screen is split into six sections with the still images displayed at a reduced size

- Press the ▲▼◀► buttons to select the first still image for which you wish to make the DPOF setting.
- 4. Press the menu button.

The Playback menu appears.

 Press the ▼ button to select [DPOF] and press the ok or ▶ button.

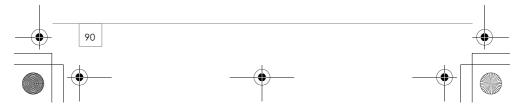




6. Press the ▲▼ buttons to set the number of copies to print.
Press the ▲ button to increase the number, or the ▼ button to decrease

- Press the ◀▶ buttons to select the next still image for which you wish to make the DPOF setting.
- 8. Press the ▲▼ buttons to set the number of copies to print. Press the ▲ button to increase the number, or the ▼ button to decrease
- Repeat Steps 7 and 8 to select all the still images for which you wish to make the DPOF setting.
- 10. Press the menu button.

The display indicates that the selected images are being processed; once finished, the display returns to the Thumbnail Display screen.









Changing the Image Size (RESIZE)

You can reduce the image size of a shot still image to additionally create a file of a different image size.



You can resize only still images and still images with voice memos. Movies cannot be resized.



The following types of resizing are possible:

	Original		Resized	
1	dr5	F2560/N2560/F2048/N2048	N1280	N640
ı	arə	F1280/N1280		N640
1	dr4	F2304/N2304/F1600/N1600	N1280	N640
ı	ui4	F1280/N1280		N640

To change the image size, follow the steps below.

- 1. Press the Playback button.
- 2. Press the menu button.

The Playback Setting menu appears.

- Press the ▼ button to select [RESIZE] and press the ok or ▶ button.
- 4. Press the ▲▼ buttons to select [1280] or [640].
- 5. Press the ok button.

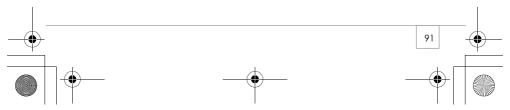
The image size is changed and the resized still image is displayed.







For how to change the image size at shooting, see P.59.



2

A Variety of Shooting Techniques/Playback



You can copy all movies, still images, and sound data stored in internal memory onto an SD Memory Card at once.

- 1. Turn the Camera Off
- 2. Inser an SD Memory Card.
- 3. Turn the camera on.
- 4. Press the Playback button.
- 5. Press the menu button.

The Playback Setting menu appears.

 Press the ▼ button to select [COPY TO CARD] and press the ok or ▶ button.

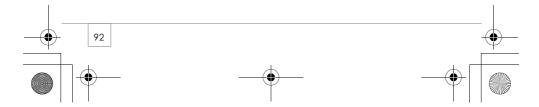
The display indicates copying is in progress; once finished, the display retuns to the playback screen.

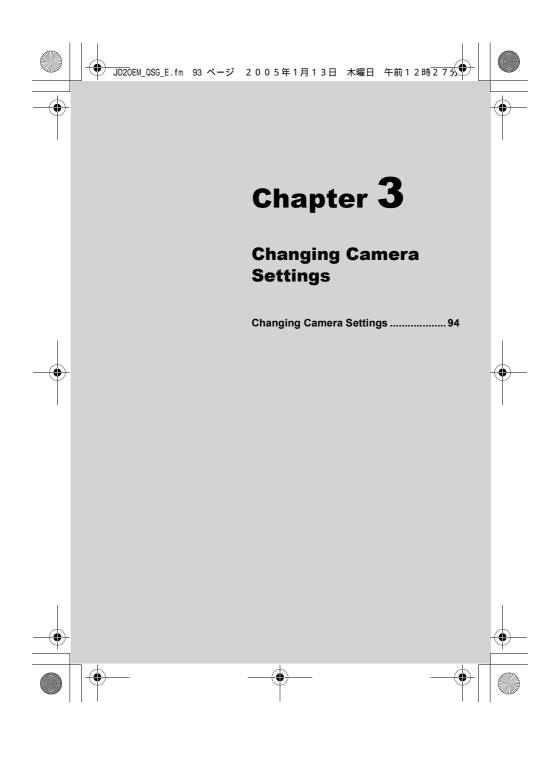


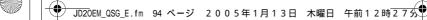




- If the capacity of the SD Memory Card you are copying to is insufficient, a message will be displayed indicating there is not enough capacity. To copy only the number of shots that will fit into the available capacity, select [YES] and then press the ok button. To cancel copying, select [NO] and then press the ok button.
- It is not possible to copy from SD Memory Card to internal memory.









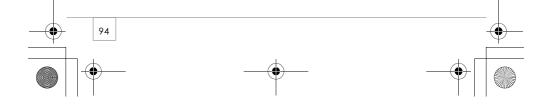
SETUP Menu

You can change camera settings by displaying the SETUP menu from the Shooting Setting menu (see P.50) or Playback Setting menu (see P.83).

The SETUP menu enables you to set the items listed in the table below.



Setting	Option	Refer to
FORMAT [CARD]	 	P.96
FORMAT [INT. MEM.]		P.97
LCD BRIGHTNESS	<u> </u>	P.98
ADJ. BUTT. SET.	[OFF], PIC QUALITY (), AF/ MF, SHARP, PHOTOMETRY ()	P.99
BEEP SOUND	[ON], OFF, Shutter release sound	P.100
LCD CONFIRM.	OFF, [1], 2, 3 Seconds	P.101
AUTO POWER OFF	OFF, [1], 5, 30 Minutes	P.102
SEQUENTIAL NO.	ON, [OFF]	P.103
POWER SAVE	ON, [OFF]	P.104
DATE SETTINGS		P.106
LANGUAGE	[日本語], ENGLISH, DEUTSCH, FRANÇAIS, ITALIANO, ESPAÑOL, 簡体中文 , 繁体中文 , 한국어	P.107
VIDEO OUT MODE	[NTSC], PAL	P.108
STEP ZOOM	ON, [OFF]	P.109
SHTG STGS WARNG.	[ON], OFF	P.110















To display and use the Setup menu, follow the steps below.



For some functions, the choice selection method may not be as explained here. For detailed operation, see the explanation of each function.

1. Press the menu button.

The Shooting Setting menu (or the Playback menu) appears.

2. Press the ▶ button.

The setup menu appears.

3. Press the ▲▼ buttons to select the desired setting.

The setting items are provided on three screens.



To select a screen by screen number:

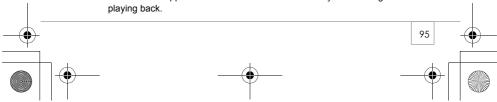
- 1. Press the ◀ button to select a screen number on the left of the screen.
- 2. With the screen number selectable, press the buttons to switch between screens.
- 3. After selecting the screen, press the ▶ button to return to the setting item selection step.



NOTISHTG STGS | ♥ SETUP

- 4. After selecting a setting item, press the ok or ▶ button. Choices for the setting item are displayed.
- 5. Press the ▲▼ buttons to select a choice.
- 6. Press the ok or ◀ button.
- 7. If you pressed the \ button in step 6, press also the menu button.

The menu disappears and the camera becomes ready for shooting and



Changing Camera Settings







Getting the SD Memory Card Ready for Use (FORMAT [CARD])

If the error message "This card cannot be used" is displayed, or if you have formatted a card with a computer or some other device, it will be necessary to format the SD Memory Card prior to use. Formatting is the process of preparing a card so image data can be written on it.



If you format a card that still has images stored on it, the images will be lost.



For how to format internal memory, see P.97.

To format a card, follow the steps below.

1. Display the setup menu.

For detailed operation, see P.95.

2. Press the ▼ button to select [FORMAT [CARD]] and press the ok or ▶ button.

A screen appears to confirm formatting.

3. Press the **◆▶** button to select [YES] and then press the ok button.

> Formatting starts. When it is done, the display returns to the SETUP menu.

If no SD Memory Card is inserted, a message will be displayed. After turning the power off, load an SD Memory Card and repeat the formatting process again.

SHTG STGS 🖞

BEEP SOUND

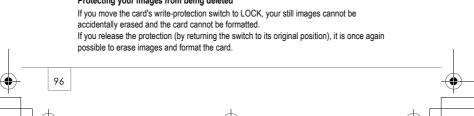
FORMAT (CARD)

LCD BRIGHTNESS ADJ BTN.SET.

ON



Protecting your images from being deleted













Formatting Internal Memory (FORMAT [INT. MEM.])

If an error message "Format the internal memory" is displayed, it will be necessary to format the internal memory prior to use.



Formatting the internal memory erases all of the images recorded in the memory. If you have images that you do not want to erase stored on the internal memory, please contact the Service offices prior to formatting it.

To format internal memory, follow the steps below.

1. Display the setup menu. For detailed operation, see P.95.

2. Press the ▼ button to select [FORMAT [INT. MEM.]] and then press the ok or ▶ button.

A screen appears to confirm formatting.

3. Press the **◆▶** buttons to select [YES] and then press the ok button.

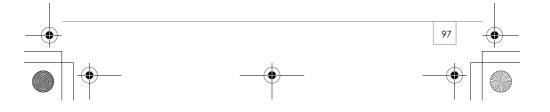
Formatting starts. When it is done, the display returns to the SETUP menu.

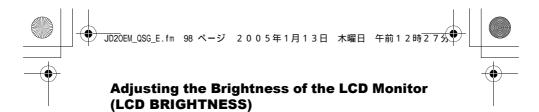


OK OK









To adjust the brightness of the LCD Monitor, follow the steps below.

1. Display the setup menu.

For detailed operation, see P.95.

 Press the ▼ button to select [LCD BRIGHTNESS] and press the ok or ▶ button.

The LCD Brightness Adjustment bar appears.



Press the ▲▼ buttons to adjust the brightness.

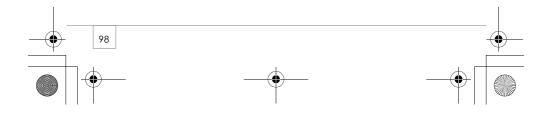
Moving it to the side makes it darker. Moving it to the side makes it brighter. The brightness of the screen behind the bar changes as you alter the setting.

4. When you attain the desired brightness, press the ok button.

The display returns to the SETUP screen. This setting will be used until you change it.













Each time the adjust button is pressed, the camera displays the setting screen in the order of exposure, white balance, and ISO sensitivity. By using the [ADJ BTN.SET] option, you can set a function to be activated when the adjust button is pressed the fourth time.

Possible Settings	(Refer to)
OFF (Set at purchase)	
QUALITY (PIC/QUALITY)	P.59
AF/MF (FOCUS)	P.61
SHARP (SHARPNESS)	P.64
PHOTOMETRY	P.65

To assign a function to the adjust button, follow the steps below.

1. Display the setup menu.

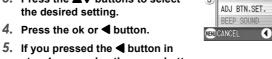
For detailed operation, see P.95.

- 2. Press the ▼ button to select [ADJ BTN.SET.] and press the ok or ▶ button.
- 3. Press the ▲▼ buttons to select
- step 4, press also the menu button.

This setting will be used until you change it.



Changing Camera Settings

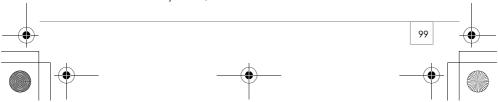




If a function is set with [ADJ BTN.SET], the AF target shift function (P.63) available from the adjust button at Macro shooting is activated when the adjust button is pressed the fifth time.

Reference

For how to use the adjust button, see P.49.









Changing the Beep Sound Setting (BEEP SOUND)

During operation, the camera generates four types of sounds: start sound, shutter release sound, focus sound, and beep sound.

Start sound : Sound when the camera power is turned on.
Shutter release sound : Sound when the shutter button is pressed.

Focus sound : When the focus is set, the camera generates the focus sound.

Beep Sound : If an impossible operation is attempted, the camera generates the beep

You can change the setting to mute these operation sounds.

Possible Settings
Shutter release sound (Shutter release sound, Beep Sound)
ON (all sounds on) *Initial setting at purchase
OFF (all sounds off)

To change the setting of operation sound, follow the steps below.

1. Display the setup menu. For detailed operation, see P.95.

 Press the ▲▼ button to select [BEEP SOUND] and press the ok or ▶ button.

- Press the ▲▼ buttons to select the desired setting.
- 4. Press the ok or ◀ button.
- If you pressed the
 button in step
 4, press also the menu button.











Changing Image Confirmation Time (LCD CONFIRM.)

Immediately after pressing the shutter button, the still image taken is displayed for a moment so you can check it.

At purchase, Confirmation Time is set to one second, but this can be changed.

Possible Settings	
OFF (Photo not displayed for confirmation)	
1 Second (Default)	
2 Seconds	
3 Seconds	

To change Confirmation Time, follow the steps below.

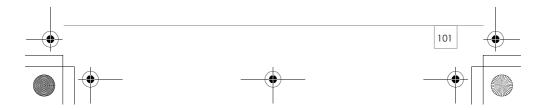
1. Display the setup menu.

For detailed operation, see P.95.

- 2. Press the ▲▼ button to select [LCD CONFIRM.] and press the ok or ▶ button.
- 3. Press the ▲▼ buttons to select the desired setting.
- 4. Press the ok or ◀ button.
- 5. If you pressed the \triangleleft button in step 4, press also the menu button.













Changing Auto Power-Off Settings (AUTO POWER OFF)

If you do not operate the camera for the set period of time, it will shut off automatically (Auto Power-off) to conserve battery power. At the time of purchase, Auto Power-Off is set to one minute, but you can change this setting.

Possible Settings
OFF (The Auto Power-Off function does not work)
1 Minute (Default)
5 Minutes
30 Minutes

To change the Auto Power-Off setting, follow the steps below.

1. Display the setup menu.

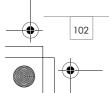
For detailed operation, see P.95.

- Press the ▼ button to select [AUTO POWER OFF] and press the ok or ▶ button.
- 3. Press the ▲▼ buttons to select the desired setting.
- 4. Press the ok or ◀ button.
- If you pressed the ◀ button in step 4, press the menu button.

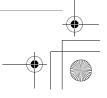




- To continue on using the camera after auto power-off, slide the power switch to close the lens cover once (power-off) and slide it again to open (power-on). When the Playback button is pressed, the lens cover does not open but the camera is turned on for use in Playback Mode.
- $\bullet\,$ The Auto Power-off function does not work when the camera is connected to a computer.
- When shooting with Interval Shooting, settings made here are not valid and Auto Power-Off does not work.

















When you shoot a still image, it is stored on an SD Memory Card or in internal memory, with a consecutively numbered file name automatically assigned. When you are switching SD Memory Cards, you can set your camera to continue consecutive numbering from the previously loaded SD Memory Card.

Possible Settings	
ON (Continue numbering)	File names will be automatically assigned to still images you take, in the format of "M" followed by 7 digits, from M0010001 jpg to M9999999 jpg. With this setting, even when one SD Memory Card is switched with another, consecutive file numbering from the previous card is continued.
OFF (Do not continue numbering) (Default)	Every time a new card is loaded, file numbering is assigned, from IMAG0001.jpg to IMAG9999.jpg. If numbering exceeds IMAG9999, further recording is not possible

To make changes to file numbering, follow the steps below.

1. Display the setup menu.

For detailed operation, see P.95.

- 2. Press the ▼ button to select [SEQUENTIAL NO.] and press the ok or ▶ button.
- 3. Press the ▲▼ buttons to select the desired setting.
- Press the ok or ◀ button.
- 5. If you pressed the ◀ button in step 4, press also the menu button.

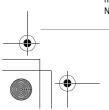
This setting will be used until you change it.



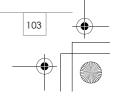
- When you are recording to internal memory, file names are assigned just as when [SEQUENTIAL NO.] is set to [OFF].
- When transferring images to a computer, if a file already exists with the same name in the destination folder, your image is renamed before saving to avoid overwrite problem.
- · When transferring images to a computer via the provided USB cable, the files are assigned names like IMAG**** jpg (**** indicates the number of the image), even if [SEQUENTIAL NO] is set to ON.



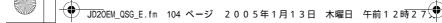








Changing Camera Settings







The display on the LCD Monitor will turn off.

Press the menu or adjust button to turn the LCD Monitor display on, and then press it again to turn the display off. After the end of setting, the display returns to off.

You cannot turn the LCD Monitor Display on/ off by pressing the 👏 (Self-timer) or **(Macro)** button.



To change the Power-Save Mode, follow the steps below.

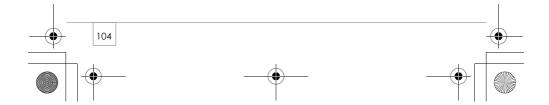
1. Display the setup menu. For detailed operation, see P.95.

2. Press the ▼ button to select [POWER SAVE] and press the ok





- 4. Press the ok or **◄** button.
- 5. When you selected [ON], a message appears for confirmation. Press the ◀▶ buttons to select [YES], and then press the ok button.
- 6. Press the menu button.









 When the Power-Save mode is set to ON, if the power is turned on or the mode dial is turned to another position, a warning appears for about two seconds to indicate Power-Save mode.

Pressing the 4 (Flash) button allows you to turn the LCD Monitor Display on, and then
change the flash setting (see P.33). Press the shutter button or ok button to turn the LCD
Monitor Display off.

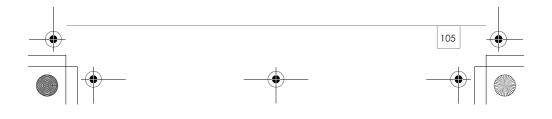
Caution

If you have activated Power-Save mode, power consumption will be reduced, but there are the following limitations:

- Processing time may be slower.
- It works only in Still Image/Movie modes. It does not work in Playback Mode.

Changing Camera Settings







You can take still images with the time or date stamped onto the picture.

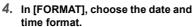
The date/time setting on the SETUP menu is explained here.

- 1. Display the setup menu.
 - For detailed operation, see P.95.
- Press the ▼ button to select [DATE SETTINGS] and press the ok or ▶ button.





If you hold down the \triangle or ∇ button, you can increase/decrease the value quickly.



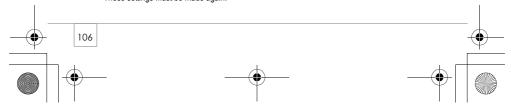
Check the display on the bottom of the screen and then press the ok button.

Once you have set the date and time, the display returns to the Setup menu.





If the batteries are removed for more than one week, the date and time settings will be lost. These settings must be made again.









Changing the Display Language (LANGUAGE)

You can change the language displayed on the LCD Monitor.

Possible Settings
日本語 (Japanese)
ENGLISH (English) (Default)
DEUTSCH (German)
FRANÇAIS (French)
ITALIANO (Italian)
ESPAÑOL (Spanish)
簡体中文 (Simplified Chinese)
繁体中文 (Traditional Chinese)
한국어 (Korean)

To change the display language, follow the steps below.

1. Display the setup menu.

For detailed operation, see P.95.

2. Press the ▼ button to select [LANGUAGE] and press the ok or button.

The language selection screen appears.

- 3. Press the ▲▼◀▶ buttons to select the desired setting.
- 4. Press the ok button.

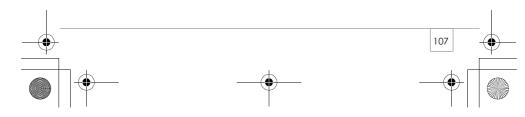
This setting will be used until you change it.





Changing Camera Settings







You can view your still images and movies on a television screen by connecting your camera to a television with the AV cable that came with your camera.

Your camera is set to NTSC video format (used in Japan and other countries) for use with television equipment, etc. If the equipment you want to connect to uses PAL format (used in Europe and elsewhere), then switch your camera to PAL format before connecting.

Possible Settings
NTSC (Default)
PAL

To change the playback format, follow the steps below.

- For detailed operation, see P.95. 2. Press the ▼ button to select
- [VIDEO OUT MODE] and press the ok or ▶ button.
- 3. Press the ▲▼ buttons to select the desired setting.
- 4. Press the ok or ◀ button.

1. Display the setup menu.

5. If you pressed the ◀ button in step 4, press also the menu button.

This setting will be used until you change it.



SHTG STGS 8 SETUP

NTSC

PAL

1 LANGUAGE

2) VIDEO OUT MODE

SHTG STGS WARNG.

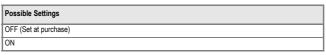
STEP ZOOM







The focal length with optical zooming can be fixed to any of five levels (28, 35, 50, 85, and 135 mm as converted equivalent to 35 mm cameras) (Step Zoom).



To set whether to use step zooming (ON) or not (OFF), follow the steps below.

1. Display the setup menu. For detailed operation, see P.95.

(STEP ZOOM)

2. Press the ▼ button to select [STEP ZOOM] and press the ok or button.



- 4. Press the ok or ◀ button.
- 5. If you pressed the ◀ button in step 4,Press the menu button.

This setting will be used until you change it.





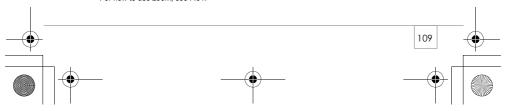


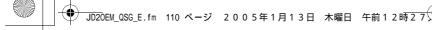


For step zooming in Macro Mode, the focal length changes in four steps (35, 50, 85, and 135 mm as converted equivalent to 35 mm).

Reference

For how to use zoom, see P.31.









Displaying a Setting Change Warning (SHTG STGS WARNG.)

You can set the icon of a changed function blink or a warning message indicating a change will be displayed at power-on for about 5 seconds if the initial settings are changed for the following functions.

- · White Balance
- Focus
- ISO Setting
- Exposure Comp
- Time Exposure

If you operate a camera button, the icon is changed from blinking to steady.

If you operate a camera button during warning message display, the message disappears.



Possible Settings	
OFF	
OFF (Default)	

To set whether to enable (ON) or disable (OFF) the shooting setting alert, follow the steps below.

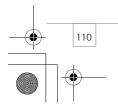
1. Display the setup menu.

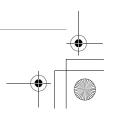
For detailed operation, see P.95.

- 2. Press the ▼ button to select [SHTG STGS WARNG.] and press the ok or button.
- 3. Press the ▲▼ buttons to select the desired setting.
- 4. Press the ok or ◀ button.
- 5. If you pressed the ◀ button in step 4, press also the menu button.

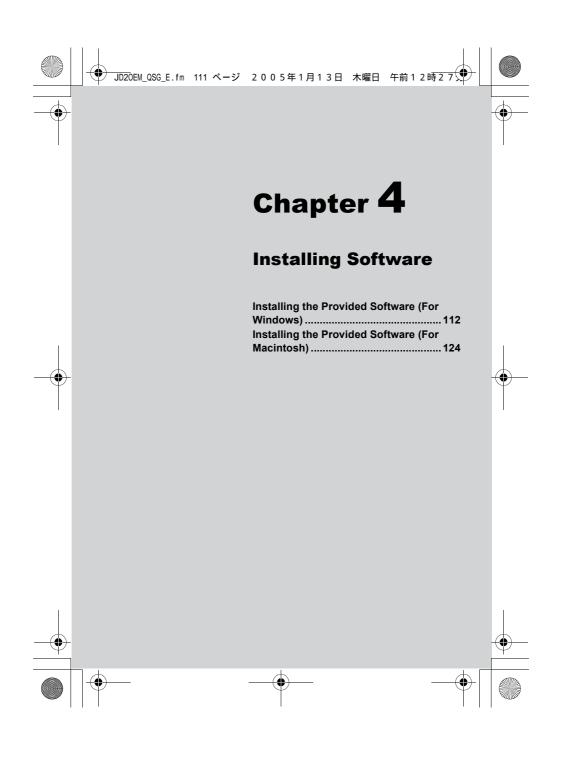
This setting will be used until you change it.



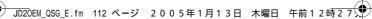
















Installing the Provided Software (For Windows)

You need to install software for transferring images to your computer before you can download images from the camera.



For how to download images from the camera into your computer, see the Software User Guide available from the Software CD-ROM. For how to display the Software User Guide,



Be sure to install the software before you connect the camera to your computer with the cable.



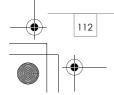


Software that can be installed from the Software CD-**ROM**

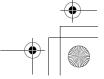
Once you insert the Software CD-ROM in the CD-ROM drive, the following screen appears automatically:

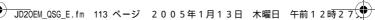


Item Name	Description	(Refer to)
Install Software	Use this button to install software required for handling the camera and images.	P.115
View Software User Guide	Use this button to display the Software User Guide (PDF).	P.113
Browse CD-ROM	Use this button to display the list of files contained on the CD-ROM.	P.113















When [Install Software] is clicked: (P.115)

The following software will be installed:

Software	Windo	WS	Description
	XP	98	
DL-10	0	0	Downloads images.
DU-10	0	0	Allows images to be displayed, edited, or corrected. DirectX (see P.122) is required to play back movies.
USB Driver	0	0	Connects the camera to your computer.
WIA Driver	0		Downloads images.
Mounter			Connects the camera to your computer.

XP:Windows XP

98:Windows 98/98SE/Me/2000



When [View Software User Guide] is clicked:

The Software User Guide (PDF file) on the Software CD-ROM can be displayed on your computer screen. If you are a Windows user and has Acrobat Reader installed on your computer, simply double-click [View Software User Guide].

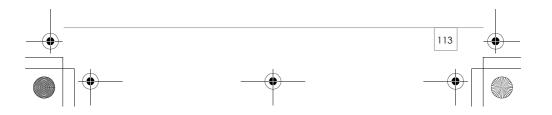
If not installed, Acrobat Reader should be installed (see P.121).



Click [Browse CD-ROM].

List of files on the CD-ROM can be displayed on your computer screen.

Software	Description			
Acrobat Reader	Required for viewing the Software User Guide.			
DirectX	Required for playing back movies.	P.122		





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System Requirements for Using the Provided Software

The following environments are necessary for using the provided software. Please check your computer, or the computer's user manual.

Operating Systems Supported	Windows 98/98 Second Edition		
	Windows 2000 Professional		
	Windows Me		
	Windows XP Home Edition/Professional		
CPU	Pentium 2 or higher		
Memory	Windows 98/98SE: 32MB or more (96MB or more recommended)		
	Windows 2000: 128MB or more (256MB or more recommended)		
	Windows Me: 64MB or more (96MB or more recommended)		
	Windows XP: 128MB or more (256MB or more recommended)		
Hard drive space required for	Windows 98/98SE: 10MB or more		
nstallation	Windows 2000: 10MB or more		
	Windows Me: 10MB or more		
	Windows XP: 10MB or more		
Display resolution	640 x 480 pixels or greater (800 x 600 or greater recommended)		
Display colors	256 colors or greater (65000 or greater recommended)		
CD-ROM drive	A CD-ROM drive compatible with the above-mentioned computer body		
USB port	A USB port compatible with the above-mentioned computer body		



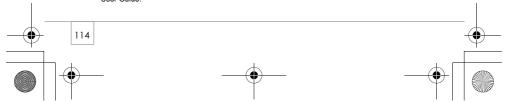


Caution

- If your computer has an upgraded OS, the USB function may not work normally, so it cannot be supported.
- Problems may arise due to changes made to the OS, such as through patches or a service package release.
- Connection to a USB port retrofitted using an extended function (PCI bus, etc.) cannot be supported.
- If used in conjunction with a hub or other USB devices, the software may not work properly.
- · When dealing with movies and other large files, a larger memory environment is



For how to download images to your computer using an SD Memory Card, see the Software







Installing the Software on Your Computer (Windows XP)



- Do not connect your camera to the computer until indicated. If you happened to connect your camera to the computer (resulting in the [Add New Hardware Wizard] screen appearing), simply click [Cancel], and after disconnecting your camera, install the software on your computer.
- For Windows XP, Administrator privileges are required to install this software.

Start your computer and insert the CD-ROM in the CD-ROM drive.

The screen shown on the right appears automatically.



2. Click [Install Software].

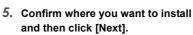
After a while, the [Select Setting Language] screen appears.

3. Confirm the language, and then click [OK].

After a few moments, the [Welcome to InstallShield Wizard] screen appears.

4. Click [Next].

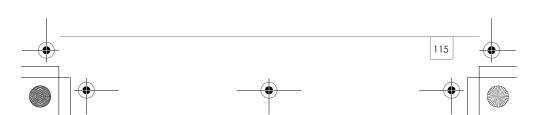
After a few moments, the [Select Installation Destination] screen appears.



The [Select Program Folder] screen appears.







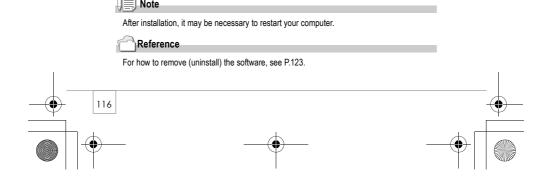


Installing Software













Installing the Software on Your Computer (Windows 98/98SE/Me/2000)



- Do not connect your camera to the computer until indicated. If you happened to connect your camera to the computer (resulting in the [Add New Hardware Wizard] screen appearing), simply click [Cancel], and after disconnecting your camera, install the software
- For Windows 2000, Administrator privileges are required to install this software.
- 1. Start your computer and insert the CD-ROM in the CD-ROM drive.

The screen shown on the right appears automatically.



Installing Software





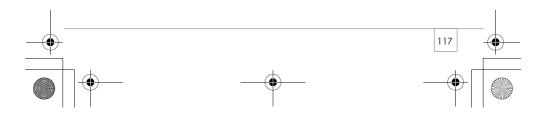
- 2. Click [Install Software].
- 3. Confirm the language, and then click [OK].
- 4. Click [Next].



5. Confirm where you want to install and then click [Next].

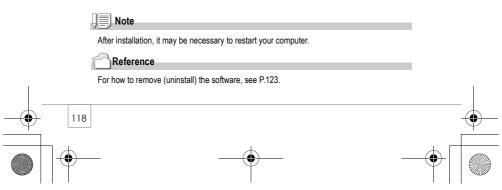
The [Select Program Folder] screen appears.















Connecting the Camera to Your 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.



Connect the USB cable to the USB terminal of your camera. Your camera turns on.





Installing Software



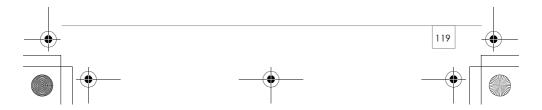


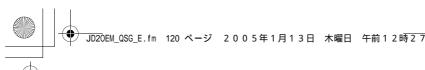
The first time you connect your camera to the computer using a USB cable, the [Found New Hardware Wizard] screen will appear.

- Select [Install from a list or specific location (Advanced)].
- 2. Select [Next].
- Select [Search for the best driver in these locations.] -[Include this location in the search] and then press the [Browse] button.

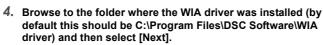












The WIA Driver is installed. The [DSC 724] screen appears.

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].

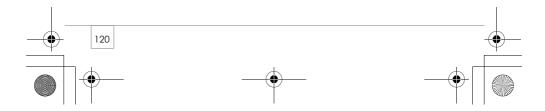
Leaving the [Always use this program for this action] check box unchecked will cause the [DSC 724] screen to be displayed each time you transfer images from the camera, thereby allowing you to choose whether to use DL-10 or the Scanner and Camera Wizard for image transfers.





Disconnecting the Camera from Your Computer:

- 1. Turn your camera off by pressing the power button.
- 2. Unplug the USB cable.





Installing Other Software

For Windows, in addition to the Software, you can also install the following software from the CD-ROM provided.

- Acrobat Reader
- DirectX

Do not install the software when the camera is connected to your computer with a USB cable.

Installing Acrobat Reader

Acrobat Reader is required to display the operation manual (PDF file).

If the computer is running under Windows, Acrobat Reader can be installed.

Acrobat Reader need not be installed if already installed on your computer.

For Windows XP or Windows 2000, Administrator privileges are required to install the software.

1. Start your computer, and insert the included Software CD-ROM into the CD-ROM drive.

The following screen appears automatically.

2. Click [Browse CD-ROM].

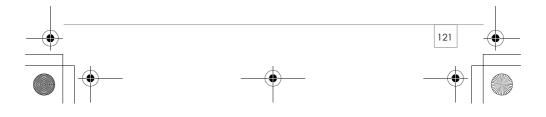
The files on the CD-ROM are listed.

- 3. Double-click the [Acrobat] folder.
- 4. Double-click the [English] folder.
- 5. Double-click [ar500enu] (ar500enu.exe).
- 6. Install Acrobat Reader by following the messages displayed.











DirectX is software to play back movies.

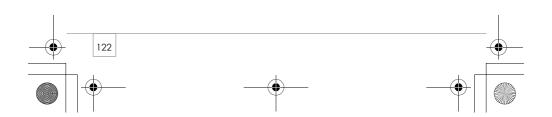
This camera requires DirectX 7.1 or later to play movie files in Windows. If you have an earlier version installed, please install the updated version available on the accompanying CD-ROM.

For Windows XP, installation of DirectX is not needed because the updated version is already installed.

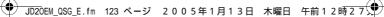
For Windows 2000, Administrator privileges are required to install the software.

- Start your computer, and insert the included Software CD-ROM into the CD-ROM drive.
- 2. Click [Browse CD-ROM].
- 3. Double-click the [DirectX] folder.
- 4. Double-click the [English] folder.
- 5. Double-click the following file:

Windows98/98SE/Me	[DX81xxx.exe] in the [Win98Me] folder
Windows2000	[DX81NTxxx.exe] in the [Win2000] folder











Uninstalling the Software

For Windows 2000/XP, Administrator privileges are required to uninstall the software.

- 1. Click [Start] on the Windows task bar.
- 2. Select [Settings] and then [Control Panel].
- 3. Double-click the [Add/Remove Programs] icon (or the [Add Or Remove Programs] icon in Windows XP).
- 4. Select [DSC Software] and then click [Change/Remove].
- Confirm file deletion and click [OK].The [Shared File Detected] dialog box appears.
- 6. Select the [Don't display this message again.] check box,

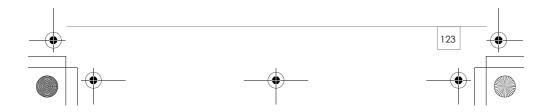
and then click [OK].

The uninstallation process begins. When it is finished, close the displayed window

4

Installing Software











Installing the Provided Software (For Macintosh)

You need to install software for transferring images to your computer before you can download images from the camera.



For how to download images from the camera into your computer, see the Software User Guide available from the Software CD-ROM. For how to display the Software User Guide, see P.113.

Caution

Be sure to install the software before you connect the camera to your computer with the cable.





Software that can be installed from the Software CD-ROM $\,$

Once you insert the Software CD-ROM in the CD-ROM drive, the following screen appears automatically:



Item Name	Description	(Refer to)
Install Software	Use this button to install software required for handling the camera and images.	P.127
View Software User Guide	Use this button to display the Software User Guide (PDF).	P.125
Browse CD-ROM	Use this button to display the list of files contained on the CD-ROM.	













When [Install Software] is clicked:

The following software will be installed:

Software	Mac		Mac Description	Description
	9	Х		
DL-10	0		Downloads images.	
USB Driver	0	0	Connects the camera to your computer.	
Mounter	0	0	Connects the camera to your computer.	

9:Mac OS 8.6 to Mac OS 9.2.2

X: Mac OS X 10.1.2 to 10.3

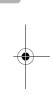
When [View Software User Guide] is clicked:

The Software User Guide (PDF file) on the Software CD-ROM can be displayed on your computer screen.

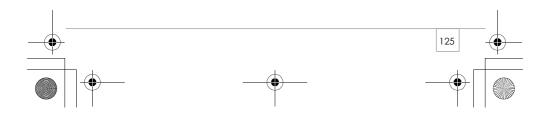
If not installed, Acrobat Reader should be installed.



Installing Software









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System Requirements for Using the Provided Software

The following environments are necessary for using the provided software.

Please check your computer, or the computer's user manual.

Operating System	Mac OS 8.6 to 9.2.2 / Mac OS X 10.1.2 to 10.3				
Macintosh	A USB port standard-equipped Apple Macintosh Series				
Internal Memory	Mac OS 8.6 to 9.2.2	96 MB or more (128 MB or more recommended)			
	Mac OS X 10.1.2 to 10.3	128 MB or more (256 MB or more recommended)			
Application Allocated Memory (For Mac OS 8.6 to 9.2.2)	Without using the compression utility, 16MB or more (24 MB or more is recommended) as Application Memory				
Hard Disc Drive Capacity	Mac OS 8.6 to 9.2.2	10 MB or more (at installation)			
	Mac OS X 10.1.2 to 10.3	100 MB or more (at installation)			
	100 MB or more (at operation)				
Display resolution	640 x 480 pixels or greater (800 x 600 or g	greater recommended)			
Display colors	256 colors or greater (32000 or greater recommended)				
CD-ROM drive	A CD-ROM drive compatible with the above-mentioned Macintosh machine				
USB port A USB port compatible with the above-mentioned computer body					





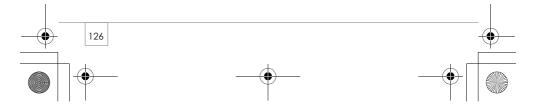
- Problems may arise due to changes made to the OS environment setting.
- Connection to a USB port retrofitted using an extended function (PCI bus, etc.) cannot be supported.
- If used in conjunction with a hub or other USB devices, the software may not work properly.

Note

- When dealing with movies and other large files, a larger memory environment is recommended.
- For Mac OS 8.6 to 9.2.2, use a larger memory environment, as well as allocating extra application memory.
- While the software can be operated at 256 colors or more for the Display Color, it is strongly recommended that 32,000 or more be used.



For how to download images to your computer using an SD Memory Card, see the Software User Guide.









Installing the Software on Your Computer (Mac OS 8.6 to 9.2.2)

- 1. Turn on your Macintosh and insert the Software CD-ROM in the CD-ROM drive.
- 2. Select the OS 9 folder.

The [DSC Installer] icon appears.

3. Double-click [DSC Installer].

The "DSC Installer" window opens.



DSC Installer

DSC Software

Browse Manual

- 4. Click [Install Software].
- 5. Click [OK].
- 6. Click [Install].

appears to inform you that it is necessary to restart your Macintosh.



message appears.

8. Click [Restart].

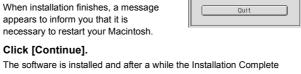
Your Macintosh restarts.

Note

To remove (uninstall) the software:

To remove (uninstall) the software from your Macintosh, drag and drop the installed file into the Trash.

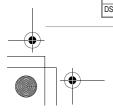
File Name	Folder Name	
DL-10	System Folder: Control Panels	
DL-10 Prefs	System Folder: Preferences	
DSC Mounter	System Folder: Extensions	
DSC Mounter Prefs	System Folder: Preferences	
DSC USB Driver	System Folder: Extensions	



















- 1. Turn on your Macintosh and insert the CD-ROM in the CD-ROM drive.
- 2. Open the Mac OS X folder.
 - The [DSC Mounter.pkg] icon appears.

(Mac OS X 10.1.2 to 10.3)

Double-click [DSC Mounter.pkg].
 The Installer starts. A screen appears prompting you to enter the administrator's password.



4. Click the key icon.

An authentication window appears.



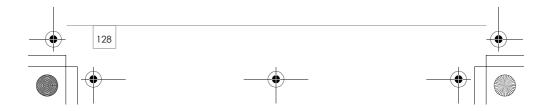
5. Enter the administrator's name and password, and then click [OK].



6. Click [Continue].

The [Select a Destination] screen appears.









want, and then click [Continue].



8. Click [Install].

When installation finishes, a message appears to inform you that it is necessary to restart your Macintosh.

9. Click [Continue Installation].

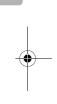
The software is installed, and after a while an Installation Complete message appears.

10. Click [Restart].

Your Macintosh restarts.





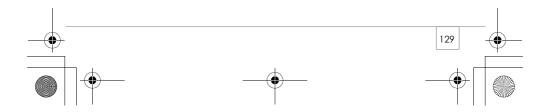






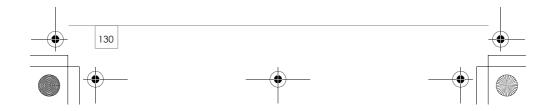
To remove (uninstall) the software:

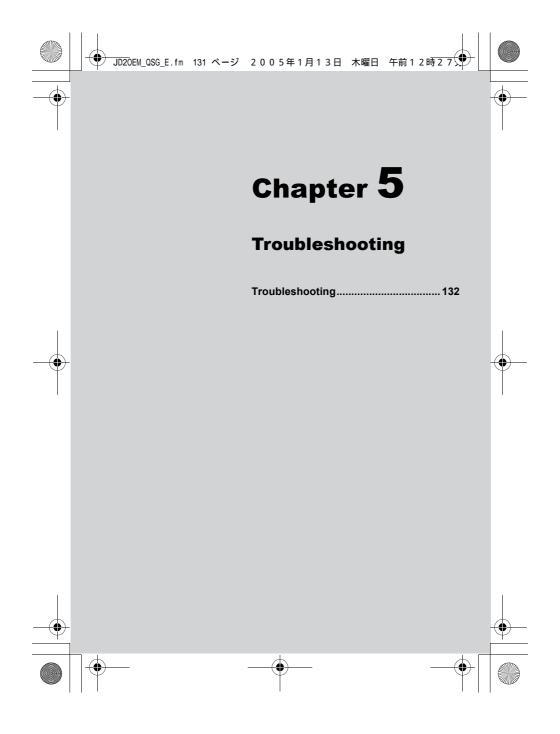
- 1. Start [DSC Mounter] in [Applications] folder.
- Select [Uninstall] in [File] menu.
 The uninstallation process begins.

















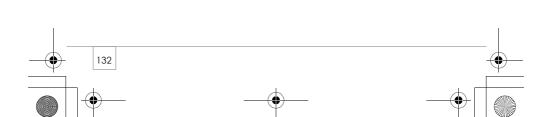


Troubleshooting

Troubleshooting the Camera

Power Supply

Symptom	Cause	Remedy	Refer to
The power does not come on.	Batteries are not loaded. Or they are exhausted.	Load the batteries correctly.	P.20 P.139 P.140
	Because the camera overheated the power was automatically turned off.	Wait until the temperature of the camera returns to normal. Do not attempt to cool the camera suddenly.	P.21
	The camre is automatically turned off by Auto Power-off.	Slide the power switch to close the lens cover once (power-off) and slide it again to open (power-on).	P.21
The power cuts out during use.	The camera was left unattended and unused, so Auto Power-Off shut it off.	Slide the power switch to close the lens cover once (power-off) and slide it again to open (power-on).	P.21
	Batteries are running low.	If using alkaline batteries, replace the batteries with a new set.	P.16
The power does not go off.	Camera malfunction.	Remove batteries once and load them again.	P.20 P.139 P.140
Cannot recharge the battery life.		Replace the batteries with a new set.	P.16
Batteries run out quickly.	They are being used in extreme high or low temperatures.	-	-
	Many shots are being taken in dark places inside, requiring flash.	-	-





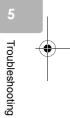


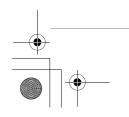




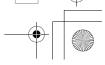


Symptom Cause		Remedy	Refer to
The camera does not shoot even if you press the shutter release button.	Batteries are not loaded. Or they are exhausted.	If using alkaline batteries, replace the batteries with a new set.	P.16 P.139 P.140
	The power is not on. The camera is not in Still Image, Movie, or Sound (Voice Memo) Mode.	Turn on the camera by sliding the power switch to open the lens cover. If the auto power-off function is enabled, the power may have been turned off automatically even when the lens cover is open. In that case, slide the power switch to close the lens cover once (power-off) and slide it again to open (power-on).	P.21
	The camera is in Playback Mode.	Set the model selector to a shooting mode (Still Image Mode, Movie Mode, or Voice Mode) and press the Playback button.	P.26 P.27
	The shutter button is not pressed all the way.	Press the shutter button all the way.	P.26 P.27
	The Memory Card is not formatted.	Format the card.	P.96
	The Memory Card does not have any free space.	Load a new card, or delete unwanted files.	P.20 P.40
	End of Memory Card life.	Load a new memory card.	P.20
	The flash is recharging.	Wait until the flash lamp stops blinking.	P.33
	The SD Memory Card is "locked".	Release the "Lock (write-protection)".	P.19
	The SD Memory Card's contact surfaces are dirty.	Wipe off with a soft, dry cloth.	-
Failed to confirm the shot image.	The image confirmation time is too short.	Lengthen the image confirmation time.	P.101
Images do not appear on the LCD Monitor.	The power is not on. Or the LCD Monitor is dark.	Turn the power on. Or adjust the brightness of the LCD Monitor.	P.21 P.98
	The VIDEO/AV cable is connected.	Diconnect the VIDEO/AV cable.	P.38
	The screen display status is in [SYNCHRO-MONITOR MODE].	Press the disp button and switch display.	P.24
	It is set to [Power-Save].	Set [Power-Save] to off.	P.104
Although it is set to Auto	The lens or AF Window is dirty.	Wipe clean with a soft, dry cloth.	P.12
Focus, it does not focus.	The subject is not in the center of the shooting range.	Shoot with Focus Lock.	P.29
	It is a hard-to-focus subject.	Shoot with Focus Lock or Manual Focus.	P.29 P.61

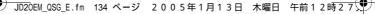
















	JD20EM_QSG_E.fm	134 ページ 2005年	1月13日 木曜日 午前1	2時27)
T	Symptom	Cause	Remedy	Refer to	T	
	A picture is blurred.	You moved the camera when pressing the shutter release button.	Hold the camera with your elbows tight on your body. Or use a tripod.	P.25		
		When shooting in a dark place (ex. indoor), the shutter speed slows down and pictures become easily blurred.	Use the flash. Or, raise the ISO sensitivity.	P.33 P.55		
	The flash does not fire. Or the flash cannot recharge.	The Shooting Mode is set to ■ (Multi-Shot) or — (Movie).	Switch the Shooting Mode to (Still Image).	P.12		
		The flash is set to (Flash Off).	Deselect the Flash Off with the \$ button.	P.33		
		Batteries are running low.	If using alkaline batteries, replace the batteries with a new set.	P.16		
	Even though the flash fired, the picture is dark.	The distance to the subject is greater than 2.1 meters in Telephoto or greater than 2.7 meters in Wideangle.	Get closer to your subject and shoot.	P.33		
		The subject is blackish.	Correct exposure. (Exposure correction also changes the light quantity of the flash.)	P.52		
	The image is too bright.	The light quantity of the flash is not appropriate.	Move a little away from the subject or light up the subject for shooting without flashing.	P.33		
_		It is over-exposed.	Use exposure compensation. Cancel Exposure Time.	P.52 P.68		
Ť		The brightness of the LCD monitor is not appropriate.	Adjust the brightness of the LCD Monitor.	P.98		
	The image is too dark.	The shot was taken in a dark place while set to (Flash Off).	Deselect the Flash Off with the 🕏 button.	P.33		
		It is under-exposed.	Use exposure compensation. Set to Exposure Time.	P.52 P.68		
		The brightness of the LCD monitor is not appropriate.	Adjust the brightness of the LCD Monitor.	P.98		
	The image lacks natural color.	The picture was shot in conditions that are hard for Auto White Balance to adjust to.	Add a white object to the composition. Or use a White Balance setting other than Auto.	P.53		
	The date, or recording information does not appear.	The screen display function is set to No Display.	Press the disp button and switch display.	P.24		
	The brightness of the LCD Monitor changes during AF.	You are using it in a dark place or when Auto Focus range and surrounding brightness are different.	This is normal.	-		
	There is a vertical smear on the image.	This is a phenomenon that occurs when a bright subject is shot. It is called the smear phenomenon.	This is normal.	-		











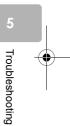




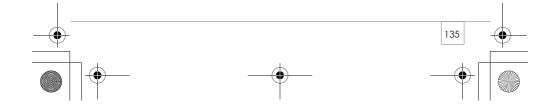


Playback/Deleting

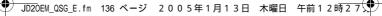
Symptom	Cause	Remedy	Refer to
Cannot Playback. Or the	The camera is not in Playback Mode.	Press the Playback button.	P.35
Playback screen does not come out.	The VIDEO/AV cable is not connected properly.	Reconnect it properly.	P.38
	The video format is set wrong.	Set to correct format.	P.108
The contents of SD Memory Card cannot be replayed. Or the Playback screen does not come out.	No memory card is loaded. Or a Memory Card with no stored images is loaded.	Load a card with stored images.	P.20
	You played back a Memory Card that was not formatted by this device.	Load a card that was formatted and stored on by this device.	P.20 P.96
	You played back a Memory Card that was not recorded normally.	Load a normally recorded card.	P.20
	The SD Memory Card's contact surfaces are dirty.	Wipe off with a soft, dry cloth.	-
	There is something wrong with the Memory Card.	Play another card and if there is nothing wrong with it, the camera is OK. There may be something wrong with the card, so do not use it.	-
An image disappeared.	Batteries are running low.	If using alkaline batteries, replace the batteries with a new set.	P.16
	The camera was left unattended and unused, so Auto Power-Off shut it off.	Turn the power back on.	P.21
Files cannot be deleted.	The file has been set to protect.	Release the protection.	P.85
	The SD Memory Card is "locked".	Release the "Lock (write-protection)".	P.19
Cannot format a Memory Card.	The SD Memory Card is "locked".	Release the "Lock (write-protection)".	P.19









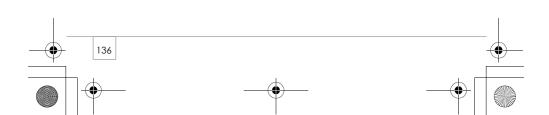






	JDZOEM_QSG_E.fm	136 ページ 2 0 0 5年 ²	l 月13日 木曜日 午前1	2時27
-	Other Proble	ms		-
	Symptom	Cause	Remedy	Refer to
	Cannot load the Memory Card.	The card is facing the wrong way.	Load correctly.	P.20
	Even when the camera's buttons are pressed, it does not operate.	Batteries are running low.	If using alkaline batteries, replace the batteries with a new set.	P.16 P.139 P.140
		Camera malfunction.	Slide the power switch to close the lens cover once (power-off) and slide it again to open (power-on).	P.21
			Remove batteries once and load them again.	P.20 P.139 P.140
	The date is wrong.	The correct date/time are not set.	Set the correct date/time.	P.106
	The date set has disappeared.	The batteries were removed.	If the batteries are removed for about one weeks, the date setting will be lost. Make the settings again.	P.106
	Auto Power-Off does not work.	Auto Power-Off is set to OFF.	Set the time for Auto Power-Off.	P.102
	The beep does not sound.	The camera is set to silent.	Set the beep to ON.	P.100
	Images do not appear on	The video format is set wrong.	Set to correct format.	P.108
7	the TV.	The cable is not connected.	Reconnect the cable properly.	P.38
·)		The TV in/out switch is incorrectly set.	Check that the TV in/out switch is set correctly.	-













Appendices

A. Specifications

General

Video Signal Format NTSC, PAL

Power Source Voltage AA Dry Alkaline Batteries (1.5 V) x 2

Rechargeable Battery (3.7 V) x 1

External Dimensions Weight 100.2mm (W) x 55.0mm (H) x 25.0mm (D) (excluding projecting parts

Approx. 150g (excluding battery/SD Memory Card/Strap) Weight

Operating Temperature Range 0 °C to 40 °C Operating Humidity Range 85% or less -20 °C to 60 °C Storage Temperature Range

Camera Parts

dr5: Total 5.19 million pixels (effective pixels 5.02million) dr4: Total 4.19 million pixels (effective pixels4.00million) Image Pickup Used

Lens 4.8 x Optical Zoom lens: F3.3 to 4.8 •Lens

 Focal Length F: 4.6 to 22.2 mm (35 mm equivalent, 28 to 135 mm) Shooting range 0.3m or more (from the front end of the lens barrel) · Macro Shooting Distance 0.01m or more (Wide-angle), 0.13m or more (Zoom-angle)

Digital Zoom

Monitor Display Parts

1.8" · Screen Size

 Type Transparent Amorphous Silicon TFT LCD

Approx. 110,000 Pixel Count

AUTO/Fixed (Daylight, Overcast, Tungsten light, Fluorescent light, One Push) • White Balance

Exposure Adjustment

Multi Light Metering (256 segments), Center-weighted Light Metering, Spot Metering Light Metering Sensitive Distribution

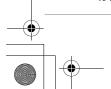
• Exposure Compensation Exposure Compensation +/-2.0EV (1/3EV Steps)

 Metering Method TTL-CCD Metering Method • Flash AF Yes (In Daylight Synchro: On) Still image: 8, 4, 2, 1 to 1/2000 seconds Movie: 1/30 to 1/2000 seconds Shutter

AUTO, ISO64, ISO100, ISO200, ISO400, ISO800 • ISO Sensitivity

Distance Control

Normal Shooting: External Passive / CCD method; Macro: CCD method · AF Method • AF Measurement Range Normal: approx. 30 cm (11.7") - infinity. Macro: approx. 1 cm - infinity

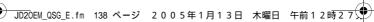
















Internal Flash

 Method Flashmatic

Approx. 0.2 to 2.7 m (W), Approx. 0.13 to 2.1 m (T) (ISO:AUTO) Shooting Distance Operating Modes Flash Off/Forced flash/Auto/Slow synchro/Red-eye reduction

 Date Maintain Time Approx. 1 week

Image Data Record/Replay Part

Pixels(dr5)

· Still Images 2560 X 1920, 2048 X 1536, 1280 X 960, 640 X 480

• Text 2560 X 1920, 2048 X 1536 Movies 320 X 240, 160 X 120

Pixels(dr4)

2034X 1728, 1600 X 1200, 1280 X 960, 640 X 480 · Still Images

• Text 2034 X 1728, 1280 X 960 • Movies 320 X 240, 160 X 120

File Formats

Compressed; JPEG (Exif Ver.2.21)) • Still Images TIFF (MMR Method ITU-T.6) Text

• Movies AVI (Open DML Motion JPEG Format Compliant)

• Sounds WAV (Exif Ver.2.21 μ law)

Camera File System DCF (DCF is an abbreviation for "Design rule for Camera File system", a JEITA Standard

Compression Format JPEG Baseline Format Compliant (Still, Movie)

Image Size(dr5)

•2560 X 1920 N; approx. 1032 KB/Screen, F; approx. 1806 KB/ Screen • 2048 X 1536 N; approx. 673 KB/Screen, F; approx. 1346 KB/ Screen • 1280 X 960 N; approx. 326KB/Screen, F; approx. 626KB/ Screen

N; approx. 83KB/ Screen •640 X 480

Image Size(dr4)

•2304 X 1728 N; approx. 804 KB/Screen, F; approx. 1.54 MB/ Screen • 1600 X 1200 N; approx. 495 KB/Screen, F; approx. 964 KB/ Screen • 1280 X 960 N; approx. 326KB/Screen, F; approx. 626KB/ Screen

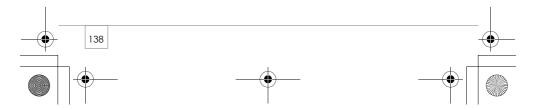
•640 X 480 N; approx. 83KB/ Screen

I/O Terminals

DC In 3.8 V Video Out 1.0 Vp-p (75Ω)

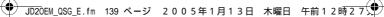
Memory Cards that can Record, Playback

SD Memory Card, Multi-Media Card Memory Type













B. Optional Accessories

This Camera can be used with the items (sold separately) listed below.

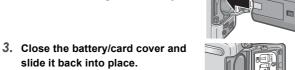
Item	Remarks
Rechargeable Battery	Available for this camera.
Rechargeable Battery Set	Includes the Rechargeable Battery and Battery Charger.

Inserting the Rechargeable Battery (sold separately)

The rechargeable battery is another option for powering this camera. This battery is convenient because it can be used over and over again by recharging, and the battery power lasts long. If you have already used this camera, make sure it is turned off before loading batteries.

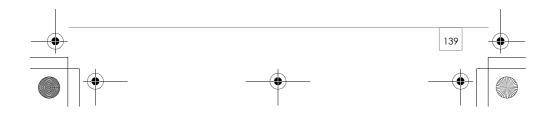


- 1. Slide the battery/card cover toward the rear side to open it.
- 2. Insert the rechargeable battery.







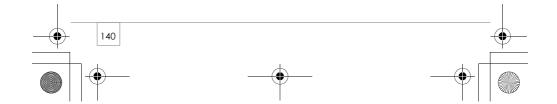




- Open the battery/card cover.
- 2. Remove the rechargeable battery.
- 3. Close the battery/card cover and slide it back into place.
- **Caution**
- Please remove the rechargeable batteries if you are not going to use the camera for a long period of time.
- Store the removed battery in a dry cool place.
- Use the battery charger (sold separately) to recharge the battery.

Rechargeable battery charging time About three hours (25°C)



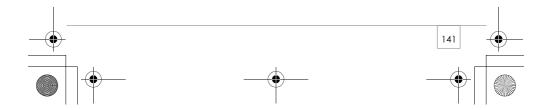




Depending on the Scene Mode, the way functions work may differ from when in normal shooting mode. Refer to the table below.

Mode Name	Flash	Macro Shooting
PORTRAIT	Initial setting: Flash Off	Disabled
SPORTS	Initial setting: Flash Off	Disabled
LANDSCAPE	Fixed on Flash Off	Disabled
NIGHTSCAPE	Forced flash is disabled	Disabled
	Initial setting: Auto	
TEXT MODE	Fixed on Flash Off	Enabled
HIGH SENSITIVITY	Fixed on Flash Off	Enabled













D. Menu Items By Mode

Shooting Menu (Movie Mode)

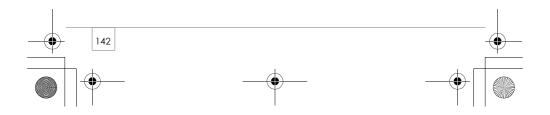
Setting	Option	Refer to
Movie Size	[320], 160	P.59
Focus	[AF], MF, SNAP, ∞	P.61
White Balance	[AUTO], [AUTO], (Overcast), (Tungsten light), (Volencescent light), (One Push)	P.53

Shooting Menu (Scene Mode, except in Text Mode)

Setting	Option	Refer to
Pic Quality/Size	dr5: F2560, N2560, F2048, N2048, F1280, [N1280], N640 dr4: F2304, N2304, F1600, N1600, F1280, [N1280], N640	P.59
Focus	[AF], SNAP, ∞ (except in Landscape)	P.61
Image With Sound	ON, [OFF]	P.73
Date Imprint	[Off], Date, Date and Time	P.72
Exposure Comp.	-2.0 to +2.0	P.52
White Balance	[AUTO], [AUTO], [Autorescent light], [Autorescent light]	P.53
SLOW SHUTTER LMT	[OFF], ON	P.71



Setting	Option	Refer to
Density	Deep, [Normal], Light	P.56
Size	dr5: 2560, [2048] dr4: 2304, [1280]	P.59
Image With Sound	ON, [OFF]	P.73
Date Imprint	[Off], Date, Date and Time	P.72
SLOW SHUTTER LMT	[OFF], ON	P.71

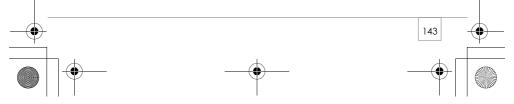






Power-off may reset some function settings to their defaults. The table below indicates whether or not the function will be reset to its defaults upon power-off.

Mode	Function	The current setting is kept:O, Restored:X
Setup	DATE SETTINGS	0
	POWER SAVE	0
	AUTO POWER OFF	0
	BEEP SOUND	0
	SEQUENTIAL NO.	0
	LCD CONFIRM.	0
	LCD BRIGHTNESS	0
	LANGUAGE	0
	VIDEO OUT MODE	0
	ADJ. BUTT. SET.	0
	STEP ZOOM	0
	SHTG STGS WARNG.	0
Shooting	CONT. MODE	X
	EXPOSURE COMP.	0
	WHITE BALANCE	0
	PIC QUALITY/SIZE	0
	FOCUS	0
	PHOTOMETRY	0
	ISO SETTING	0
	SHARPNESS	0
	AUTO BRACKET	X
	TIME EXPOSURE	0
	INTERVAL	X
	DATE IMPRINT	0
	IMAGE WITH SOUND	X
	SELF-TIMER	X
	FLASH	0
	MACRO SHOOTING	X
	DENSITY (Text Mode)	0
	SLOW SHUTTER LMT	0
	MOVIE SIZE (Movie Mode)	0
	SIZE (Text Mode)	0
Playback	VOLUME	0











The following table shows the approximate number of images that can be recorded onto an SD memory card at various image size and picture quality settings.

dr5									
Mode	Picture Quality	Image Size	IN	32MB	64MB	128MB	256MB	512MB	1GB
Still	F	2560 X 1920	6	15	31	63	126	255	491
Image	N	2560 X 1920	10	25	52	105	210	424	816
	F	2048 X 1536	8	20	41	83	166	334	643
	N	2048 X 1536	15	39	80	163	325	654	1259
	F	1280 X 960	15	38	79	159	318	641	1233
	N	1280 X 960	29	72	149	301	600	1209	2325
	N	640 X 480	127	315	645	1305	2600	5239	10075
TEXT		2560 X 1920	15	39	80	163	325	654	1259
MODE		2048 X 1536	29	72	149	301	600	1209	2325
Movie		320 X 240	18	44	91	182	363	739	1404
			Seconds	Seconds	Seconds	Seconds	Seconds	Seconds	Seconds
		160 X 120	67	168	340	697	1390	2762	5311
			Seconds	Seconds	Seconds	Seconds	Seconds	Seconds	Seconds
Sound	İ		26 min	64 min	132 min	267 min	532 min	1073 min	2063 mir
(Voice Memo)			10 s	38 s	13 s	17 s	38 s	11 s	27 s

dr4								
Mode	Picture Quality	Image Size	IN	32MB	64MB	128MB	256MB	512MB
Still	F	2304 X 1728	6	16	33	68	136	275
Image	N	2304 X 1728	12	31	64	130	260	523
	F	1600 X 1200	10	26	53	108	216	436
	N	1600 X 1200	20	51	104	211	421	849
	F	1280 X 960	15	38	79	159	318	641
	N	1280 X 960	29	72	149	301	600	1209
	N	640 X 480	128	315	645	1305	2600	5239
TEXT		2304 X 1728	20	51	104	211	421	849
MODE		1028 X 960	128	315	645	1305	2600	5239
Movie		320 X 240	17	44	90	182	364	733
			Seconds	Seconds	Seconds	Seconds	Seconds	Seconds
		160 X 120	68	168	345	697	1390	2802
			Seconds	Seconds	Seconds	Seconds	Seconds	Seconds
Sound		İ	26 min	64 min	132 min	267 min	532 min	1073 min
(Voice Memo)			15 s	38 s	13 s	17 s	38 s	11 s

















- The number of remaining shots available may differ from the actual number of shots, depending on the subject.
- The maximum number of pictures and other numeric values may be different even for cards of the same capacity if the manufacturer, type, or shooting conditions are different.
- The continuous shooting (recording) time depends on the card type, capacity, and performance.

G. Using Your Camera Abroad

This product is for domestic use. The warranty is only valid domestically. Should the product fail or malfunction while you are abroad, the manufacturer assumes no responsibility for servicing the product locally or bearing the expenditure incurred therefore.

Using Playback on Television in other Regions

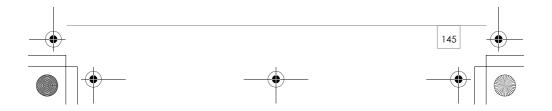
Playback is possible on televisions (or monitors) equipped with a video input terminal. Please use the video

cable provided.
This camera is compatible with both NTSC and PAL television formats. Switch the video format on the camera

to match the television environment in the region.
When you go overseas, set your camera to the local video format.

















H. Cautions on Use

- · This product is for domestic use. The warranty is only valid domestically.
- · Should the product fail or malfunction while you are abroad, the manufacturer assumes no responsibility for servicing the product locally or bearing the expenditure incurred therefore.

 Be sure not to drop or apply any sudden force to the camera.
- Firing the flash consecutively may heat the firing unit. Do not fire it consecutively more than necessary.
- Do not fire the flash near eyes, or view the sun or other strong light directly through the viewfinder. It could cause visual impairment (particularly for infants).
- Do not fire the flash near the driver of a vehicle to avoid causing accidents.
- The batteries may become hot after extended use. Touching the batteries immediately after use could result in burns to your fingers.
- If the LCD monitor or panel is exposed to sunlight, they may become washed out and images may become hard to view.
- The LCD monitor and panel may contain some pixels that do not remain lit up continually in part or at all. Also, the brightness may become uneven because of the characteristics of LCDs. These are not failures.
- While you are carrying the camera, be careful not to hit it against other objects.
- In an environment where the temperature changes suddenly, condensation may occur in the camera, resulting in troubles such as fogging of the glass surface or malfunctions of the camera. If this occurs, place the camera in a bag to slow the temperature change as much as possible. Take it out of the bag after the temperature difference from the atmosphere has decreased to a fairly small amount.
- To avoid damaging the connectors, do not put any objects into the camera's microphone or speaker holes.



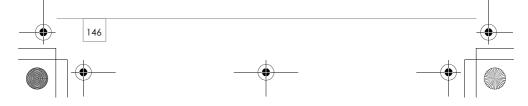




Conditions in which condensation may easily occur:

When the camera is moved to an environment where the temperature differs greatly.

- · In humid places
- In a room immediately after being heated, or when the camera is exposed directly to cooled air from an air-conditioner or another similar appliance







I. Care and Storage

Care

- Please note that if fingerprints, dirt, etc. get onto the lens, picture quality will suffer.
- When dust or dirt does get on the lens, do not touch it directly with your fingers, and either use a blower (available in stores) to blow it off, or a soft cloth to gently dust it off.
- · After use at the beach or around chemicals, wipe it off particularly carefully.
- In the unlikely event that your camera fails to work properly, please consult your Repair Center.
- There are high voltage circuits in this camera. As this is dangerous, do not
- dismantle this camera under any circumstances.

 Do not get volatile substances, such as thinner, benzene, or pesticides on your camera. This may cause a change in quality, paint to peel, etc.

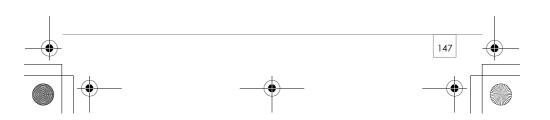
 As the surface of the LCD Monitor is easily scratched, do not rub hard
- objects against it.
- Please clean the surface of the LCD Monitor with solvents available on the market specially for cleaning LCD display surfaces. Gently wipe with a soft cloth dampened with a little cleaner.

Storage

- $\bullet\,$ Please avoid storing your camera in the following kinds of places, as breakdown may result.
 - In high heat and humidity, or where there is severe change in temperature or humidity.
 - Places with a lot of dust, dirt or sand,
 - Places with severe vibration.
 - In places of direct contact with vinyl products, rubber or chemicals, such as insect repellent, etc.
 - Places with strong magnetic fields (monitors, next to strong magnets,
- If you are using a battery or batteries, remove them if you are not going to use the camera for a long period of time.

Precautions regarding care of your camera

- 1. Be sure to turn the power off.
- 2. Remove the batteries before caring for your camera.















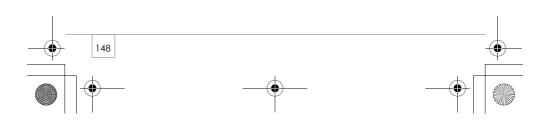


J. Error Messages

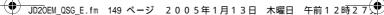
If an error message is displayed on the LCD Monitor, take the corresponding action.

Error Message	Cause and Action	Page
INSERT CARD	No card is loaded. Insert a card.	P.20
SET THE DATE ON THE SETUP MENU	The date is not set. Set the date.	P.106
FILE NUMBER OVER	The file number limit has been exceeded. Please use another card, or delete unwanted files.	P.103
UNMATCHED FILE	A file that cannot be played back was selected.	-
INSUFFICIENT MEMORY. CONTINUE?	Because there is not sufficient capacity on the card, all the files cannot be copied. Use another card.	P.19
PROTECTED	You are trying to delete a protected file.	P.85
THE CARD IS WRITE- PROTECTED.	The card is "Locked (write-protection)". Unlock the card.	P.19
PRINT SETTINGS CANNOT BE SET FOR THIS FILE	This file (movies and other) cannot be selected for printing.	-
INSUFFICIENT MEMORY	Files cannot be stored. Make sure there is enough free space, or delete files.	P.40, P.96, P.97
	The image print number limit has been exceeded. Select an image and set the number to 0.	-
FORMAT INTERNAL MEMORY	It is necessary to format internal memory.	P.97
FORMAT CARD	The card is not formatted.Format the card.	P.96
CARD ERROR	Please reformat. If, after doing so, the error message still appears, the card may be faulty. Do not use the card.	P.96
WRITE TO CARD	Writing file to memory. Wait until writing finishes.	-
NO FILE	There are no files that can be played back.	-
CANNOT RECORD	The Number of remaining shots is 0. Switch to another card or internal memory.	-
INSUFFICIENT MEMORY CANNOT RECORD	Files cannot be stored. Make sure there is enough free space, or delete files.	P.40, P.96, P.97













K. Warranty and Servicing

- This product is backed by a limited warranty. During the warranty period mentioned in the Warranty supplied with your camera, any defective parts will be repaired free of charge. In the event of a camera malfunction, contact the dealer from which you purchased the camera or your nearest service office. Please note that you will be not be reimbursed for the cost of bringing the camera to the service office.

 This warranty does not cover any damage resulting from:

 1/ailure to follow the instructions in the instruction manual;

- 2)repair, modification or overhaul not conducted by an authorized service center listed in the instruction
- manual;
 3)fire or natural disaster;
 4)Improper storage, such as exposing the camera to high temperatures, humidity, or moth-balls; storing it with a leaking battery; storing the camera in a dirty condition so that it becomes moldy; or otherwise insufficiently caring for the camera;
 5)Submergence; exposure to floods or spilled alcohol or other beverages; allowing sand or mud to enter

- Spauniergenice, exposure to indoos or spined accord or other beverages, anowing said of midd to enter the camera; exposure to physical shocks; or dropping the camera.

 After the warranty period has passed, you will be liable for all repair fees, including those incurred at an authorized service center.

 You will be liable for all repair fees, even within the warranty period, if the warranty card is not attached or if the distributor's name or the purchase date have been changed or are not indicated on the card.

 Expenses for overhaul and thorough inspection by special request of the customer will be charged to the customer, whether or not they are incurred during the warranty period.

 This warranty only anoplies to the camera and not to the accessories such as the case and strap nor does.
- 6. This warranty only applies to the camera and not to the accessories, such as the case and strap, nor does
- Inis warranty only applies to the camera and not to the accessories, such as the case and strap, nor does it apply to the battery and other consumables provided.
 Any consequential damages arising from failure of the camera, such as expenses incurred in taking pictures or loss of expected profit, will not be reimbursed whether they occur during the warranty period or not.
 The warranty is only valid domestically.

 The above provisions refer to repairs offered free of charge, and do not limit your legal rights.
 The intention of the above provisions is also described in the warranty card provided with this camera.

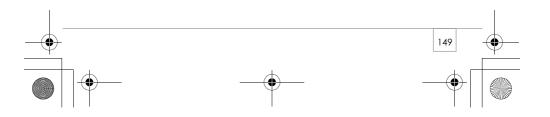
- 9. Parts essential to the servicing of the camera (that is, components required to maintain the functions and quality of the camera) will be available for a period of five years after the camera is discontinued.

 10. Please note that if the camera is servicusly damaged by flooding, submergence, infiltration of sand or mud, violent shocks or dropping, it may not be repairable, and restoration to its original condition may be

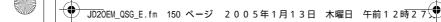


- Before sending the camera in for repair, check the battery and read the instruction manual again to ensure proper
- operation.
- Some repairs require a significant amount of time to be completed.
 When sending the camera to a service center, please include a note which describes the defective part and the problem as precisely as possible.
- Remove all accessories not related to the problem before sending the camera to the service center.
 Before taking any important pictures (such as at weddings, on trips abroad, etc.), test the camera to check operation and ensure proper functioning. We recommend that you keep this manual and spare battery on hand.
- This warranty does not apply to data stored on an SD Memory Card or in internal memory.













INFORMATION TO THE USER

USA FCC Part15 Class B

The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, then user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Connected.

 Consult the dealer or an experienced radio/TV technician for help. (FCC 15.105B)

 Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. (FCC 15.21)

 Properly shielded and grounded cables and connectors must be used for connection to a host computer in order to comply with FCC emission limits. (FCC 15.27) An AC adapter with a ferrite core must be used for RF interference suppression.

COMPLIANCE INFORMATION STATEMENT

Product Name: DIGITAL CAMERA

Model Number: dr4/dr5

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation

Rollei USA LLC

1275 Bloomfield Avenue, Building 7, Unit 38, Fairfield, NJ 07004 PHONE +1973 2 44 96 60 $\,$

Note to Users in Canada

Note: This Class B digital apparatus complies with Canadian ICES-003

Remarque Concernant les Utilisateurs au Canada

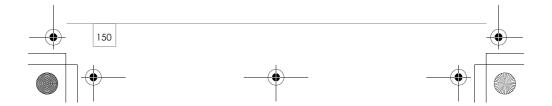
Avertissement: Cet appareil numerique de la classe Best conforme a la norme NMB-003 du Canada

IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.



Declaration of Conformity

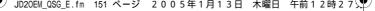
"The Product complies with the requirements of the EMC Directive















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