RICOH



Camera User Guide



The serial number of this product is given on the bottom face of the camera.

Basic Operations

If you are using the camera for the first time, read this section.

This section provides a basic overview of how to turn on the camera, take pictures and play back pictures.

Advanced Operations

Read this section when you want to learn more about the different camera functions.

This section provides more detailed information about the functions used to take pictures and play back pictures, as well as information on how to customize the camera settings, print pictures, and use the camera with a computer.

The rechargeable battery needs to be charged before use. The battery is not charged at the time of purchase.

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.

Ricoh Co., Ltd.

Safety Precautions	Read all safety precautions thoroughly to ensure safe use.	
Test Shooting	Please be sure to do some test shooting to make sure it is recording properly before normal use.	
Copyright	Reproduction or alteration of copyrighted documents, magazines, music and other materials, other than for personal, home or similarly limited purposes, without the consent of the copyright holder is prohibited.	
Exemption from Liability	Ricoh Co., Ltd. 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 thereof.	
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. • Reorient the TV or radio antenna. • Plug the devices into separate electrical outlets.	

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Safety Precautions

Warning Symbols

Various symbols are used throughout this instruction manual and on the product to prevent physical harm to you or other people and damage to property. The symbols and their meanings are explained below.

\land Danger	This symbol indicates matters that may lead to imminent risk of death or serious injury if ignored or incorrectly handled.
🕂 Warning	This symbol indicates matters that may lead to death or serious injury if ignored or incorrectly handled.
\land Caution	This symbol indicates matters that may lead to injury or physical damage if ignored or incorrectly handled.

Sample Warnings

0	The () symbol alerts you to actions that must be performed.
\bigcirc	The \bigcirc symbol alerts you to prohibited actions. The \bigcirc symbol may be combined with other symbols to indicate that a specific action is prohibited. • Examples \textcircled Do not touch \textcircled Do not disassemble

Observe the following precautions to ensure safe use of this equipment.

	🗥 Danger	
(Do not attempt to disassemble, repair or alter the equipment yourself. The high- voltage circuitry in the equipment poses significant electrical hazard. 	
(• Do not attempt to disassemble, alter or directly solder the battery.	
\bigcirc	 Do not put the battery in a fire, attempt to heat it, use it in a high temperature environment such as next to a fire or inside a car, or abandon it. Do not put it into water or the sea or allow it to get wet. 	
\Diamond	 Do not attempt to pierce, hit, compress, drop, or subject the battery to any other severe impact or force. 	
\Diamond	• Do not use a battery that is significantly damaged or deformed.	

∆ Warning

0	 Turn off the power immediately in the event of abnormalities such as smoke or unusual odors being emitted. Remove the battery as soon as possible, being careful to avoid electric shocks or burns. If you are drawing power from a household electrical outlet, be sure to unplug the power cord from the outlet to avoid fire or electrical hazards. Discontinue use of the equipment immediately if it is malfunctioning. Contact the nearest service center at your earliest convenience.
0	• Turn off the power immediately if any metallic object, water, liquid or other foreign object gets into the camera. Remove the battery and memory card as soon as possible, being careful to avoid electric shocks or burns. If you are drawing power from a household electrical outlet, be sure to unplug the power cord from the outlet to avoid fire or electrical hazards. Discontinue use of the equipment immediately if it is malfunctioning. Contact the nearest service center at your earliest convenience.
0	 Avoid any contact with the liquid crystal inside the picture display, should the monitor be damaged. Follow the appropriate emergency measures below. SKIN: If any of the liquid crystal gets on your skin, wipe it off and rinse the affected area thoroughly with water, then wash well with soap. EYES: If it gets in your eyes, wash your eyes with clean water for at least 15 minutes and seek medical advice immediately. INGESTION: If any of the liquid crystal is ingested, rinse the mouth out thoroughly with water. Have the person drink a large amount of water and induce vomiting. Seek medical assistance immediately.
\otimes	 Follow these precautions to prevent the battery from leaking, overheating, igniting or exploding. Do not use a battery other than those specifically recommended for the equipment. Do not carry or store together with metal objects such as ballpoint pens, necklaces, coins, hairpins, etc. Do not put the battery into a microwave or high pressure container. If leakage of battery fluid or a strange odor, color change, etc. is noticed during use or during charging, remove the battery from the camera or battery charger immediately and keep it away from fire.
0	 Please observe the following in order to prevent fire, electrical shock or cracking of the battery while charging. Use only the indicated power supply voltage. Also avoid the use of multi-socket adapters and extension cords. Do not damage, bundle or alter power cords. Also, do not place heavy objects on, stretch or bend power cords. Do not connect or disconnect the power plug with wet hands. Always grip the plug section when disconnecting a power cord. Do not cover equipment while charging.
0	 Keep the battery and SD memory card used in this equipment out of the reach of children to prevent accidental ingestion. Consumption is harmful to human beings. If swallowed, seek medical assistance immediately.

\Diamond	• Keep the equipment out of the reach of children.	
8	 Do not touch the internal components of the equipment if they become exposed as a result of being dropped or damaged. The high-voltage circuitry in the equipment could lead to an electric shock. Remove the battery as soon as possible, being careful to avoid electric shocks or burns. Take the equipment to your nearest dealer or service center if it is damaged. 	
When the camera is used in kitchens or in other locations where it will be exposed to steam or high levels of humidity, care should be taken to prevent moisture accumulating inside the device. Failure to observe this precaution could result in fire or electric shock.		
\oslash	 Do not use the equipment near flammable gases, gasoline, benzene, thinner or similar substances to avoid the risk of explosion, fire or burns. Do not use the equipment in locations where usage is restricted or prohibited as this may lead to disasters or accidents. 	
0	 Wipe off any dust that accumulates on the electrical plug as this may lead to fire. Use only the specified AC adapter in household electrical outlets. Other adapters pose the risk of fire, electric shock or injury. 	
\bigcirc	 To avoid the risk of fire, electric shock or injury, do not use the battery charger or AC adapter with commercially available electronic transformers when traveling abroad. 	

Observe the following precautions to ensure safe use of this unit.

▲ Caution		
 Contact with fluid leaking from a battery can lead to burns. If part of your comes in contact with a damaged battery, rinse the area with water imm (Do not use soap). If a battery starts to leak, remove it immediately from the equipment and the battery chamber thoroughly before replacing it with a new battery. 		
0	 Plug the power cords securely into the electrical outlets. Loose cords pose a fire hazard. 	
\bigcirc	 Do not expose the interior of the camera to moisture or allow water to enter the camera when handling the device with wet hands. Failure to observe these precautions could result in electric shock. 	
\bigcirc	• Do not fire the flash at drivers of vehicles, as this may cause the driver to lose control and result in a traffic accident.	
Safety Precautions When using optional products, carefully read the instructions provided for Accessories with the product before using that product.		

Using the Manuals

The following two manuals are included with your G700SE.

G700SE RECOH	"Camera User Guide" (This booklet)		
Control of the second s	This guide explains the usage and functions of the camera. It also explains how to install the provided software on your computer.		
	"Software User Guide" (PDF file)		
RICOH	The "Software User Guide" is available in the following folders on the provided CD-ROM. This guide explains how to download images from the camera to your computer.		
RECOM	Each language has its own "Software User Guide" in the respective folder.		
	To copy the User Guide onto your hard disk, copy the PDF file from the respective folder directly to your hard disk.		

"MediaBrowser" image viewing and editing software (for Windows only) is also included with the camera. For how to use MediaBrowser, see the displayed "Help".

For more information on MediaBrowser, contact the Customer Support Center below.

North America (U.S.)	TEL: (Toll Free) +1-800-458-4029	
Europe		
UK, Germany, France and Spain:	TEL: (Toll Free) +800-1532-4865	
Other Countries:	TEL: +44-1489-564-764	
Asia	TEL: +63-2-438-0090	
China	TEL: +86-21-5385-3786	

Business hours: 9:00 AM to 5:00 PM

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Basic Operations

If you are using the camera for the first time, read this section.

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Packing List

Open the package and make sure all the items are included.

* The actual appearance of items included may differ.

• G700SE

The serial number of the camera is provided on the bottom face of the camera.



- USB Cable (Mini B cable)
- AV Cable
- Neck Strap

Note -----

Rechargeable Battery



Battery Charger



Accessory Shoe Cover



- Warranty
- Camera User Guide
- CD-ROM (@ P.149)

Optional Accessories

- Rechargeable Battery (DB-65)
- Battery Charger (BJ-6)
- Soft Case (SC-700) Used to store your camera.
- Wide Conversion Lens (DW-5)

Attaching the Neck Strap to the Camera

Thread the small end of the strap through the strap eyelet on the camera and loop the ends as shown.



 For the latest information on optional accessories, see the Ricoh website (http:// www.ricohpmmc.com/).

How to Use the Mode Dial

Set the mode dial to the desired mode before shooting still images or movies.



Mode Dial Symbols and Descriptions

Symbol	Function Description		Refer to
CALS	CALS Mode	Quality and size are adjusted to produce photographs suitable for public works photography. Picture quality and size can be selected from six options using the [CALS Pic Quality] item in the setup menu (I P.87).	P.37
Auto Shooting Mode		Automatically sets the optimal aperture value and shutter speed depending on the subject.	P.31
MY 1, My Settings Mode MY2		You can shoot using the settings registered in [Reg. My Settings].	P.37
SCENE Scene Mode		Optimize settings for the current subject or scene or shoot movies.	P.52

Names of Parts

Camera

Front View



	Item Name	Refer to
1	AF Auxiliary Light	P.84
2	Shutter Release Button	P.31
3	Mode Dial	P.17, 31, 37, 52
4	POWER Button	P.28
5	Accessory Shoe	P.180
6	Speaker	P.56
7	Strap Eyelet	P.16
8	Flash	P.35
9	Microphone	P.55
10	Lens	—

Rear View



	Item Name	Refer to
1	Picture Display	P.20
2	Auto Focus/Flash Lamp	P.32, 35
3	Strap Eyelet	P.16
4	(Telephoto)/ Q (Enlarged View) Button	P.33, 38, 40
5	📢 (Wide-angle)/🖼 (Thumbnail View) Button	P.33, 38, 40
6	▶ (Playback) Button	P.38
7	MENU/OK Button	P.62, 72, 82, 94
8	DISP. Button	P.40, 44
9	▼/Ÿ (Macro) Button	P.34
10	🛍 (Delete)/论 (Self-timer) Button	P.36, 41
11	 ◄/¼ (Flash) Button 	P.35
12	ADJ./MEMO Button	P.50, 57
13	Terminal Cover	P.81, 144, 155, 157
14	AV Output Terminal	P.81
15	USB Terminal	P.144, 155, 157
16	Tripod Screw Hole	—
17	Battery/Card Cover	P.27, 179

Picture Display

Example of Picture Display when Shooting Pictures



	Item Name	Refer to		Item Name	Refer to
1	Flash Mode	P.35	18	Camera Shake Correction	P.65
2	Edit Detection	P.6	19	Battery Symbol	P.22
3	Scene Mode/Multi-shot	P.52, 64	20	Time Exposure	P.64
4	Shooting Mode Types	P.17	21	Self-timer	P.36
5	My Settings Mode	P.37	22	Macro Shooting	P.34
6	Remaining Number of Still Images	P.174	23	Digital Zoom Magnification/ Auto Resize Zoom	P.34, 89
7	Recording Destination	P.25	24	Zoom Bar	P.33
8	Image Size	P.63	25	Interval Shooting	P.65
9	Picture Quality	P.63	26	Aperture	P.171
10	Focus Mode	P.63	27	Shutter Speed	P.171
11	White Balance	P.70	28	Exposure Compensation	P.69
12	Exposure Metering	P.63	29	ISO Setting	P.71
13	Image Settings	P.64	30	Level Indicator	P.47
14	Auto Bracket	P.64	31	AF Frame	P.31
15	Histogram	P.48	32	Exposure Warning Indicator	P.69
16	Memo indicator	P.94	33	Camera Shake Warning Symbol	P.33, 65
17	Date Imprint	P.65			

IVIO	vie wid	Jue				
	34	35				
36-	00:00 / •REC	/00:02	1	•	SD VGA	640
			L	7		
	Shutter	r button : S	Start			(

	Item Name	Refer to		Item Name	Refer to
34	Recording Time	P.174	36	Movie Recording Indicator	P.55
35	Remaining Recording Time	P.174			

٢

Movio Modo

When the number of remaining shots is 10,000 or more, "9999" is displayed.

Example of Picture Display During Playback

Still Image Mode

Note ----

Movie Mode





	Item Name	Refer to		Item Name	Refer to
1	File Number	—	9	Picture Quality	P.63
2	Number of Playback Files	—	10	Date at Shooting	P.30
3	Total Number of Files	_	11	Memo indicator	P.94
4	Mode Types	—	12	Aperture	P.171
5	Protect	P.79	13	Shutter Speed	P.171
6	DPOF	P.80	14	Battery Symbol	P.22
7	Playback Data Source	P.25	15	Recording Time or Lapsed	—
				Time	
8	Image Size	P.63	16	Indicator	_

- Note -----
- The picture display may display messages to inform you of operational instructions or the camera's status while in use.
- Additional information can be viewed by pressing the DISP. button (P.44).



	Item Name	Refer to		Item Name	Refer to
1	Shooting Mode	—	9	Flash Mode	P.35
2	Continuous Mode	P.64	10	Focal Length of the Zoom	P.33
3	Aperture	P.171	11	Macro Shooting	P.34
4	Shutter Speed	P.171	12	Focus Mode	P.63
5	ISO Setting	P.71	13	Auto Bracket	P.64
6	Exposure Compensation	P.69	14	Image Settings	P.64
7	Exposure Metering	P.63	15	Memo indicator	P.94
8	White Balance	P.70			

Battery Level Indication

A battery symbol appears at the lower right of the picture display to indicate the battery level. Recharge the battery before it is depleted.

Battery Symbol	Description
Green	Battery is sufficiently charged.
(Battery partially discharged. Recharging is recommended.
Orange	Battery level is low. Recharge the battery.

🚺 Caution

Depending on battery make and condition, the level of AAA NiMH batteries may not be shown correctly.

Turn the power on and get ready to shoot.

- 🕭 Note---
 - Be sure the camera is off before removing the battery.
 - For information on how to turn the camera off, see P.29.

About the Battery

The G700SE can be used with the following batteries:

- DB-65 rechargeable Li-ion batteries (supplied)
- AAA Alkaline Batteries (available in stores)
- AAA Nickel-Hydrogen Batteries (available in stores)

🍟 Number of shots you can take -----

Approximate number of shots you can take on a single charge

Battery Type	Number of Shots (Normal Mode)
Rechargeable Battery (DB-65)	approx. 360
AAA Alkaline Batteries (available in stores)	approx. 40

* When [LCD Auto Dim] (1 P.84) is set to [On].

- Based on CIPA standard (Temperature: 23 degrees Celsius, picture display on, 30 seconds between shots, changing the zoom setting from telephoto to wideangle or wide-angle to telephoto for each shot, 50% flash usage, turning the power off after each 10 shots).
- The figure for the number of shots that can be taken with AAA alkaline batteries is based on measurements made with batteries manufactured by Panasonic.
- If [Off] is selected for [LCD Auto Dim], up to 345 shots can be taken with DB-65 batteries and up to 40 shots with AAA alkaline batteries.
- Set the camera to synchro-monitor mode to increase the number of shots you can take (1277 P.44).
- The number of shots is for reference only. If the camera is used for long periods
 of time for setting and playback, the shooting time (the number of shots)
 will decrease. If you intend to use the camera for a long period of time, we
 recommend carrying a spare battery.

- Caution--
 - The battery may become very hot immediately after operation. Turn the camera off and leave it to cool down sufficiently before removing the battery.
 - Please remove the battery if you are not going to use the camera for a long period of time.
 - When using a lithium-ion battery, use only the specified rechargeable lithiumion battery (DB-65). Do not use any other battery.
 - DB-60 Li-ion batteries can not be used.
 - NiMH batteries are not charged at purchase; charge before use.
 - NiMH batteries may suffer a drop in performance immediately after purchase
 or following a month or more of disuse and may need to be recharged two or
 three times before they will hold a charge.
 - The battery life of alkaline batteries varies with make and the time elapsed since the date of manufacture. Capacity drops at low temperatures.
 - Manganese and Ni-Cd batteries can not be used.
 - The drain on the battery increases when a GPS unit or barcode reader is connected or pictures are uploaded via Bluetooth® or over a wireless LAN. Use a DB-65 or ready spare AAA batteries.

About the SD Memory Card (available in stores)

Pictures can be stored in the camera's 103 MB internal memory or on optional SD, SDHC, and SD WORM memory cards (hereafter referred to as "memory cards").



SD WORM cards -----

Data stored on SanDisk[®] SD[™] WORM (**W**rite **O**nce **R**ead **M**any) cards can not be deleted or modified. The following are not available with SD WORM cards:

Deleting files	P.41	Recover File	P.74
Skew Correction	P.54, 78	Trim	P.75
Movie shooting	P.55	Contrast Correction	P.77
Memos	P.57	Protect	P.79
Continuous Mode	P.64	DPOF	P.80
Resize	P.73	Format [Card]	P.83
Copy to Card from Internal	P.73		
Memory			

- SD WORM cards can contain up to 510 folders, each holding a maximum of 510 photographs.
- Files can not be copied from a computer to an SD WORM card when the camera is connected via USB.



About Formattina -----

Before using a memory card for the first time or after using a memory card in other devices, be sure to format it with this camera. Memory cards can be formatted using the [Format [Card]] item (127 P.83) in the setup menu (127 P.82).



🎬 Where images are recorded -----

When no SD memory card is loaded, the camera records images to the internal memory (IN); when an SD memory card is loaded, it records images to the SD memory card (SD).



Where images are played back from -----

When no SD memory card is loaded, the camera plays back from the internal memory (IN). When an SD memory card is loaded, it plays back from the SD memory card (SD).



Caution-----

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



Move the write-protection switch on the SD memory card to LOCK to prevent your still images from being accidentally erased or the card from being formatted.

Note that you cannot shoot images on a locked card because no data can be recorded to the card. Unlock the card before shooting. Although SD WORM cards do not have a write-

protection switch, they can not be formatted, and data can not be deleted from SD WORM cards



🔦 Note-----

- The [Copy to Card from Internal Memory] item (1277) in the playback menu (127 P.72) can be used to copy the pictures in internal memory to a memory card
- An SD/SDHC memory card with a Speed Class of 6 or better is recommended when recording movies with [HD 1280] selected for [Movie Size] (CP P.63).



Charging the Rechargeable Battery (DB-65)

DB-65 Li-ion batteries must be charged before use.

- 1 Insert the battery into the battery charger, making sure that the ⊕ and ⊖ markings on the battery match those on the battery charger.
 - The battery label should face up.

Caution-----

Be careful not to reverse the \oplus and \ominus sides.

2 Plug the power cable into an outlet.

- Use the battery charger (BJ-6) to recharge the battery.
- Charging starts. Charging status is indicated by the charger lamp as shown in the table below. Once charging has finished, unplug the battery charger from the power outlet.



Charger Lamp	Description
Lit	Charging
Off	Charging complete
Flashing	The battery charger terminal may be soiled or the battery charger/battery may be faulty. Unplug the battery charger from the power outlet, and remove the battery.

• The approximate time needed to recharge a fully-exhausted battery is shown below.

Rechargeable Battery Charging Time			
DB-65	Approx. 150 min. (25 °C)		

Loading the Battery and SD Memory Card

After recharging the rechargeable battery, load the battery and the SD memory card. Be sure the camera is off before removing the battery or the SD memory card.



- Make sure the SD memory card is facing the right way and then push the card all the way in until it clicks.
- When the rechargeable battery is loaded in place, it is locked with the hook shown in the figure.







Loading the specified dry cell batteries (available in stores)

• Insert the batteries in the direction shown.

3 Close and knob the battery/card cover.

• Close the battery/card cover and rotate the knob to the position opposite the \mathfrak{S} icon.

Logo side





Removing the Rechargeable Battery

Turn the battery/card cover knob toward the \bigcirc mark to open the cover. Release the hook that locks the rechargeable battery. The battery is ejected. Pull the battery out of the camera. Be careful not to drop the battery when removing it from the camera.

Removing the Dry Cell Batteries

Turn the battery/card cover knob toward the \bigotimes mark to open the cover. The batteries will be ejected. Pull the batteries out of the camera. Be careful not to drop the dry cell batteries when removing them from the camera.

Removing the SD Memory Card

Turn the battery/card cover knob toward the \bigcirc mark to open the cover. Push in the SD memory card and gently release to eject it. Pull the card out of the camera.

Caution-----

- To prevent moisture or dust from entering the camera, close the battery/card cover securely.
- Before opening or closing the battery/card cover, choose a location free of water, sand, mud, and other foreign matter and remove any such matter as may be adhering to the camera.
- Make sure that the rechargeable battery and SD memory card are facing the right way when inserted into the camera. Inserting the rechargeable battery or SD memory card in the wrong direction and forcing close the battery/card cover may damage the camera, rechargeable battery or SD memory card.

Turning the Power On/Off

Press the POWER button to turn the camera on or off.

When the camera is turned on, a start-up sound plays and the picture display turns on.

If the POWER button is pressed when the camera is on, the number of files recorded on that day is displayed, and then the camera turns off.





- If you adjust the clock before turning the camera off, the camera will display the number of shots taken since the clock was set.
- A zero is displayed if the clock is not set.

Using the Camera in Playback Mode

Pressing and holding the 🖻 (Playback) button turns on the camera in playback mode, allowing you to start playback at once.

When the camera has been turned on with the button, pressing the button again switches playback mode to shooting mode.





🍟 About Auto Power Off ------

- If the camera goes unused for a set period of time, it automatically turns itself off to save power (Auto Power Off).
- The auto power off setting can be changed (CP P.84).



Setting the Language, Date and Time

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

Setting the Language

- Press the ▲▼ buttons to select a language.
 - When the DISP. button is pressed, the language setting is canceled and the date/time setting screen appears.



2 Press the MENU/OK button.

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

Setting the Date and Time

Press the ▲▼◀► buttons to set the year, month, date, time and format.

- Change the setting with ▲▼ and move the item with ◀▶.
- You can cancel the setting by pressing the DISP. button.



2 Check the information on the screen and then press the MENU/OK button.

• The confirmation screen appears.

3 Press the MENU/OK button.

- The date and time are set.
- If the battery is low, a warning will be displayed. Use of a fullycharged battery is recommended; to clear the warning from the display, press MENU/OK.
- Note -----
 - The language, date, and time can be changed at any time using the [Language/ 言語] and [Date Settings] items ((2) P.86) in the setup menu (2) P.82).
 - The [Date Imprint] item (1 167 P.65) in the shooting menu (167 P.62) can be used to stamp photographs with the date and time of recording.
 - If the battery is removed for more than three days, the date and time settings will be lost. These settings must be made again.
 - To retain the date and time settings, load a battery with adequate remaining power for more than ten hours.

Now you are ready.

Shooting in Auto Shooting Mode (Focus and Shoot)

Turn the mode dial to **D** to shoot with auto shooting mode.

The shutter release button works in two steps. When you press the shutter release button halfway (Half-press), the auto-focus function is triggered to

determine the focal distance. Next, press it all the way down (Fullpress) to shoot.

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

- Hold the camera with both hands and 1 lightly press both elbows against your body.
- 2 Put your finger on the shutter release button.









- The camera focuses on the subject and the exposure and white balance are fixed.
- The focal distance is measured at a maximum of nine points. Green frames appear to indicate the positions that are in focus.



4 To take a picture with the subject in the foreground in focus against a background, half-press the shutter release button to focus on the subject, and then compose your shot.

Subject to be focused



Shooting range



5 Gently press the shutter release button all the way.

The still image you have taken appears momentarily on the picture display and is recorded to the internal memory or the SD memory card.

🚺 Caution---

When you are shooting, be careful not to obstruct the lens or flash with your fingers, hair, or the strap.

🖗 About Focusing------

The frame in the center of the picture display and the auto focus/flash lamp indicate whether the subject is in or out of focus.

Focus Status	Frame Color	Auto Focus/Flash Lamp
Before focusing	White	Off
Subject in focus	Green	On (Green)
Subject not in focus	Red (Flashing)	Blinks (Green)

It may be impossible to bring the following subjects into focus, or they may not be in focus even when the frame color is green.

- Objects that lack contrast, such as the sky, a wall that is only one color, or the hood of a car.
- Flat two-dimensional objects with only horizontal lines and no significant protrusions.
- Quickly moving objects.
- Things in poorly lit places.
- Areas with strong backlighting, or reflections.
- Things that flicker, such as fluorescent lights.
- · Point light sources, such as light bulbs, spotlights, or LEDs.

When you want to shoot subjects like this, first focus on an object the same distance as your subject and then shoot.



🍳 Preventina Camera Shake -------

- Press the shutter release button gently to prevent camera shake.
- If you move the camera when pressing the shutter release button, the still image might not come out clearly due to camera shake. Camera shake tends to occur in the following cases:

- When shooting in a dark place without using the flash
- When using the zoom function
- When [Time Exposure] (127 P.64) is selected in the shooting menu (127 P.62)
- When the Mm symbol appears on the picture display, this indicates that camera shake may occur. To prevent camera shake, try any of the following.
 - Selecting [On] for [Camera Shake Correction] (1 P.65) in the shooting menu (EPP.62)
 - Setting the flash to [Auto] or [Flash On] (
 - Raising the ISO setting (12 P.71)
 - Using the self-timer (CP P.36)

Using the Zoom Function

Press the 🚺 (Telephoto) button to zoom in so that your subject fills more of the frame. To zoom out and increase the area visible in the frame, press the [+] (Wide-angle) button.









Zoom bar



The [Stepped Zoom] option (2 P.83) in the setup menu (2 P.82) allows optical zoom to be adjusted in six discrete steps.

🍟 Using the Digital Zoom -

Optical zoom offers magnifications of up to $5.0 \times$; if desired, magnification can be further increased by up to $4.0 \times$ using digital zoom. For digital zooming, release the **(A)** button once when the zoom reaches the limit on the **(A)** end on the zoom bar, and then hold the **(A)** button down again. If **(120)** 4:3 F] or **(120)** 4:3 N] is selected for [Picture Quality/Size], you can select [Auto Resize] for [Digital Zoom Image] (**(CF)** P.89).

Shooting Close-Ups (Macro Shooting)

Use macro mode for close-ups. Press the S (macro button) to enable or disable macro mode.



- 🕭 Note-
 - [Focus] (1 P.63) is set to [Spot AF].
 - Macro mode is not available in manual focus mode (127 P.63).
 - To take a further close-up picture during macro shooting, use [Zoom Macro] (1277 P52) in scene mode.
 - The minimum shooting distance and shooting range when using the zoom are shown below.

Zoom position	Minimum Shooting Distance (from the front of the lens)	Shooting Range
Wide-angle	Approx. 1 cm	Approx. 21.8 mm \times 16.4 mm
Talanhata	Approx. 15 cm	Approx. 42.3 mm × 31.7 mm (when digital zoom is not used)
Telephoto	Approx. 15 cm	Approx. 10.6 mm \times 7.9 mm (when 4.0 \times digital zoom is used)

Using the Flash

You can select the flash mode that best suits your shot. At the time of purchase, the camera is set to [Flash Off].

- 1 With the camera ready to shoot, press the 4 button.
 - The list of the flash modes symbol is displayed on the picture display.



	Flash Off	The flash will not fire.
4 AUTO	Auto	The flash fires automatically when the subject is poorly lit or backlit.
	Anti Red-Eye	Reduces the red-eye phenomenon, in which people's eyes appear red in pictures.
₹.	Flash On	The flash fires regardless of the lighting conditions.
G 10M	FLASH ON (10M)	The flash always fires with a range of 10 m. When zoomed in on your subject, the flash fires with a range of 6.2 m.
4 SLOW	Flash Synchro.	The flash fires with the shutter speed slowed. This is useful when taking portrait pictures in a nightscape. Camera shake may occur, so the use of a tripod is recommended.

2 Press the ▲▼ buttons to select the flash mode.

- The flash mode symbol is displayed at the upper left of the picture display.
- The auto focus/flash lamp blinks while the flash charges. Photos can be taken when the lamp turns off.
- 🚺 Caution-----
 - You cannot shoot when the flash is charging (approx. 8 seconds).
 - If the camera is powered by AAA alkaline or NiMH batteries, the picture display will turn off while the flash charges.
 - After the camera is turned on, it may take longer for the camera to become ready for shooting when using the flash.
- 🔦 Note--
 - The flash mode setting is retained until you press the **\$** button again.
 - The auxiliary flash fires to increase the AF accuracy.
 - The flash can not be used in some shooting modes or with some shooting menu options (FF P.169).

Using the Self-timer

The camera offers a ten-second timer for self-portraits and a twosecond timer to prevent blur caused by camera movement when the shutter release button is pressed.

- With the camera ready to shoot, press the 🖄 (Self-timer) 1 button. ി
 - The Self-timer symbol appears on the screen.
 - The [10] to the right of the symbol indicates the number of seconds. In this case, if you press the shutter release button, the camera will shoot after 10 seconds.



 Each press of the O button changes the self-timer setting in the following order: 10 sec, 2 sec, and Self-timer Off.

Start the timer. 2

 Press the shutter release button to lock focus and start the timer. If the ten-second timer is selected, the AF auxiliary light will light.



- 🖪 Note--
 - The camera remains in self-timer mode even after the image is shot. To cancel the self-timer, press the 👏 button and change the self-timer setting to [Self-Timer Off].
 - When the self-timer is set to 2 seconds, the AF auxiliary light does not blink.
 - · When the self-timer is set, the [Interval Shooting] setting is disabled.

Shooting in CALS Mode

In CALS mode, you can shoot photos in a quality and size suitable to be submitted as official public works pictures. Picture quality and size are set beforehand in [CALS Pic Quality] on the setup menu (1277 P.87). At shipment, [CALS Pic Quality] is set to [1007 4:3 N] (normal image quality, 1280×960 pixels,



with a file size of about 363 KB) to conform to the Japanese standard for official public works photographs, which requires that images be 1 megapixel with a file size of 500 KB or less.



- When the mode dial is set to a mode other than CALS, [Picture Quality/size] returns to the setting in the previous mode.
- You can register [CALS Pic Quality] as My Settings (1277 P.88).

Shooting with My Settings Mode

Rotate the mode dial to **MY1** or **MY2** to take photos using settings saved with the [Reg. My Settings] option in the setup menu (E P.88).





Note-

You can change the camera settings set in my settings mode. Changing the mode or turning the camera off returns the settings to the original MY1 and MY2 settings.

Playing Back Images

Viewing Your Images

To select playback mode, press the (Playback) button. When the camera is off, pressing and holding the (Playback) button longer than 1 second turns the camera on in playback mode.

Press the ◀► buttons to display the previous file or the next file. Press the ▲▼

buttons to display the file 10 frames forward or backward.

To switch the camera from playback mode to shooting mode, press the 🗈 button again.

Thumbnail View

20 Frames

Press the 😫 (Thumbnail view) button to view pictures 20 at a time.

Press the DISP, button to change between the thumbnail list and page list. In the page list, press the $\blacktriangle \lor \blacklozenge \lor$ buttons to select the page.

To display the highlighted photo full frame, press the ADJ./MEMO or $\ensuremath{^{\mbox{Q}}}$ (Enlarged view) button.







To display pictures 81 at a time, press 🖬 in the 20-frame view.

Press the DISP. button to change between the thumbnail list and page list. In the page list, press the $\blacktriangle \lor \blacklozenge \lor$ buttons to select the page.

To display the highlighted photo full frame, press the ADJ./MEMO button or press $\ensuremath{\mathsf{Q}}$ twice.



Thumbnail list



Page list

Date of Recording

To switch to a calendar display, press 🗈 in the 81-frame view.

Press the DISP. button to change between the thumbnail list and date list. In the date list, press the \blacktriangleleft buttons to select the date, or press the \blacklozenge buttons to select the page.

To display the highlighted photo full frame, press the ADJ./MEMO button or press $\ensuremath{\mathsf{Q}}$ three times.



Thumbnail list





Enlarging Images

To zoom in on a photo that is currently displayed full frame, press the Q(Enlarged view) button. Maximum magnification varies with image size.

Image Size	Enlarged View (maximum magnification)	
VGA 4:3 F	3.4×	
1M 4:3F/1M 4:3N/2M 4:3F	6.7×	
Image sizes other than those above	16×	

Operations that can be performed in enlarged view		
Q/B	Zoom in or out. Press \blacktriangle , \bigtriangledown , \blacklozenge , or \blacktriangleright to view other areas of the image.	
MENU/OK	If the current magnification less than $8 \times$, zoom in to $8 \times$ or to maximum magnification, whichever is less. If the current magnification is $8 \times$ or more, zoom in to $16 \times$. If the picture is currently displayed at maximum magnification, pressing MENU/OK cancels zoom.	

Pressing the DISP, button at this point changes the display as follows.



Pressing and holding the DISP Button



Pressing and holding the DISP Button

Pressing the **AVI** buttons at this point displays the previous or next image enlarged.



- · Movies cannot be enlarged.
- Cropped copies (
 P.75) can not be zoomed in to the magnifications stated above.

Deleting Files

You can delete files from the SD memory card or internal memory.



- You can use the [Recover File] function to restore needed files that you
 accidentally deleted(127 P.74). Note, however, that files can not be recovered
 if, for example, the camera has been turned off or shooting mode has been
 selected since the files were deleted.
- · Files can not be deleted from SD WORM memory cards.

Deleting a File or All Files

- 1 Press the 🕨 (Playback) button.
 - The last file recorded is displayed.
- 2 Press the ▲▼◀▶ buttons to display the file you want to delete.
 - To select multiple pictures, use the 🖬 (Thumbnail view) button to select a multi-frame view before proceeding to Step 3.
- 3 Press the 🔟 (Delete) button.
- 4 Press the ▲▼ buttons to select [Delete One] or [Delete All].
 - You can change the image for deletion with the **I**buttons.



5 Press the MENU/OK button.

 If [Delete All] is selected, press the ◀► buttons to select [Yes] and then press the MENU/OK button.

Deleting Multiple Files

You can select multiple files for simultaneous deletion either individually or by selecting one or more ranges consisting of two images and all photographs between them. To delete multiple files, press the $\overleftarrow{\mathbf{m}}$ (Delete) button in playback mode and follow the steps below (to exit at any time without deleting images, press DISP.).

Specifying Multiple Files Separately

- Press the ▲▼ buttons to select [Delete Multi] and then press the MENU/OK button.
 - Omit this step if the camera is already in multi-frame view.
- 2 Press the ▲▼ buttons to select [Sel. Indiv.] and then press the MENU/OK button.

3 Press the ▲▼◀▶ buttons to select the file you want to delete and press the MENU/OK button.

- The trash symbol is displayed in the upper left corner of the file.
- Press the ADJ./MEMO button to switch to the display for specifying a range of files. See Step 3 and beyond on P.43.



4 Repeat Step 3 to select all the files you want to delete.

- If you selected a file by mistake, you can deselect it by selecting the file and pressing the MENU/OK button.
- Press DISP. to cancel and return to Step 2.
- 5 Press the 🔟 (Delete) button.
- 6 Press the ◀► buttons to select [Yes] and then press the MENU/OK button.

Specifying a Range of Multiple Files

- Press the ▲▼ buttons to select [Delete Multi] and then press the MENU/OK button.
 - Omit this step if the camera is already in multi-frame view.
- 2 Press the ▲▼ buttons to select [Sel. Range] and then press the MENU/OK button.
- 3 Press the ▲▼◀► buttons to select the starting point of the range of files you want to delete and press the MENU/OK button.
 - If you make a mistake when selecting the starting point for the range of files, press the DISP. button to return to the screen for selecting the starting point.
 - Press the ADJ./MEMO button to switch to the display for specifying files separately. See Step 3 and beyond on P.42.
- 4 Press the ▲▼◀▶ buttons to select the ending point of the range of files you want to delete and press the MENU/OK button.
 - The trash symbol is displayed in the upper left corner of the specified files.
 - Press DISP. to cancel and return to Step 2.
- **5** Repeat Steps 3 and 4 to specify all the ranges of files you want to delete.
- 6 Press the 🔟 (Delete) button.
- 7 Press the ◀► buttons to select [Yes] and then press the MENU/OK button.



Delete

Start



Changing the Display with the DISP. Button

Pressing the DISP. button allows you to change the screen display mode and toggle the information displayed on the picture display.

During Shooting Mode



- This displays auxiliary lines on the picture display to help you compose your picture. These lines are not recorded with images.
- Use [Grid Guide Display Options] on the setup menu to select the grid (1277 P85).

🍟 Synchro-Monitor Mode-----

This turns the picture display off except when the camera is operated. This is effective for saving power consumption. The picture display turns on when the shutter release button is pressed halfway; once a picture has been taken and the results displayed, the picture display will turn off (this differs from the [LCD Auto Dim] and [Monitor Auto off Delay] options in the setup menu).



Note

- When [Shooting Info, Display Frame] is set to [On] in the setup menu, the shooting information display frame can be displayed for normal symbol display and histogram display (12 P.85).
- Histograms are not displayed in movie mode. A blinking [•REC] icon, the recording time, and the time available are displayed during recording even when indicators are hidden or the grid guide is displayed.
- When [Level Setting] is set to [Display] or [Disp + Snd] (127 P.46), the level indicator is displayed during normal symbol display and histogram display (**L** P.47).
- · When the picture display is off (including when the display has turned off automatically in synchro-monitor mode), pressing any of the following buttons turns the picture display on: the MENU/OK, ADJ./MEMO, DISP. Q, 🖬 💌 (Plavback).

During Playback Mode



Memo Display

Maximizing the Picture Display Brightness

Hold the DISP. button down in shooting mode to maximize the display brightness in shooting mode. When the brightness is at the maximum setting, holding the DISP. button down returns the brightness to the level set in [LCD Brightness] (127 P.83).

The Level Indicator (Electronic Level)

If the level indicator is enabled using the [Level Setting] option in the setup menu, the camera will display an indicator and sound a beep to help you keep the camera level. The level indicator is displayed during normal symbol display and histogram display.



This is useful for keeping the image level when taking pictures of scenery or buildings. This is also very useful for taking pictures with the horizon visible.

Available Settings	Description	
Off	The level indicator will not display. The level sound will not emit.	
Display	The level indicator will display. The level sound will not emit.	
Disp + Snd	The level indicator appears on the screen and a level sound is emitted when the image is level.	
Sound	The level indicator will not display. A level sound is emitted when the image is level.	

1 Highlight [Level Setting] in the setup menu (☞ P.82) and press ►



2 Press the ▲▼ buttons to select the setting and then press the MENU/OK button.

If you are using the camera for the first time, read this section.

Level indicator display

When level:

The level indicator becomes green, indicating that the scale is in the middle.

When tilted to the right or left:

The mark on the level indicator becomes orange, indicating the opposite side of the direction in which the camera is tilted.

When the camera is tilted too far to the right or left:

Half of the level indicator on the opposite side of the direction in which the camera is tilted becomes red. The mark on the level indicator is not displayed.

When the camera is tilted too far forward or backward, or it cannot be determined whether the camera is level:

The top and bottom of the level indicator become red. The mark on the level indicator is not displayed.

When the camera is held vertically:

When shooting with the camera positioned vertically, the level function can be used to determine whether the image is vertically level (the level indicator appears in a different place).

🚺 Caution----

- The level function is not available if the camera is held upside down, when recording movies, and during interval shooting.
- The level function becomes less accurate when the camera is moving or when shooting in an environment subject to moving, such as on a amusement ride.
- Use this function as a reference to see if images are level when shooting images. The accuracy of the level when using the camera as a level cannot be guaranteed.









When Histogram is on, a histogram appears in the lower right corner on the picture display. A histogram is a graph indicating the number of pixels on the vertical axis and the brightness on the horizontal axis (from left to right, shadows (dark areas), midtones, and highlights (bright areas)).

By using the histogram, you can determine the brightness of an image without being affected by the brightness around the picture display. This also helps you correct for areas that are overly bright or dark.

If the histogram has only peaks on the right side, this picture is overexposed with too many pixels only for highlight sections.

If the histogram has only peaks on the left side without anything else, this picture is underexposed with too many pixels only for shadow sections. Refer to this histogram when correcting the exposure.

- The histogram displayed on the picture display is for reference only.
- After taking a picture, you can correct its brightness and contrast by making adjustments to the histogram (IPP P.77).
- Depending on the shooting conditions (use of the flash, dark surrounding light, etc.), the exposure level indicated in the histogram may not correspond to the brightness of the shot image.
- Exposure compensation has its limitation. It does not necessarily achieve the best possible result.
- A histogram with peaks in the center may not necessarily provide the best result to suit your particular requirements. For example, an adjustment is required if you want to underexpose or overexpose the image.
- For information on how to correct the exposure compensation, see P.69.







Note-

Advanced Operations

Read this section when you want to learn more about the different camera functions.

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1 ADJ. Button Functions

The ADJ./MEMO button has the following functions.

- ① Assigning four functions from the shooting menu (ADJ. mode)
- ② Shifting the AE and AF targets
- ③ Memos (P.57)

Selecting Shooting Menu Options Assigned to the ADJ./MEMO Button

You can assign four functions from the shooting menu to the ADJ./ MEMO button (ADJ. mode). The fifth function is fixed to AE/AF target shift (1277 P.51) and cannot be changed.

ADJ. mode gives you quick access to settings by pressing a few buttons rather than via the menus. It is recommended for options you find yourself using frequently.

- 1 Set the functions you want to assign to the ADJ./MEMO button with [ADJ Button Setting 1/2/3/4] on the setup menu.
 - At the time of purchase, four of the functions are assigned. You can change the assigned functions.
- **2** Press the ADJ./MEMO button in shooting mode.
 - The ADJ. mode screen appears.



- **3** Press the **◄** buttons to select the desired item.
- 4 Press the ▲▼ buttons to select the setting and then press the MENU/OK button to confirm the setting.
 - For functions that can be assigned to the ADJ./MEMO button, see P.170.
 - When using a camera memo, the ADJ. mode is disabled.

🔦 Note-----

Shifting the AE and AF Targets

You can shift the target for automatic exposure (AE) and/or auto focus (AF).

Available Setting	Description
AE/AF	AE and AF are set to Spot AE and Spot AF respectively and the target can be moved for both simultaneously (The targets for Spot AE and Spot AF occupy the same position).
AF	The AF is set to Spot AF and the target can be moved. The exposure metering is set to the mode selected in [Exposure Metering] (127) P63) in the shooting menu.
AE	The AE is set to Spot AE and the target can be moved. The focus is set to the mode selected in [Focus] (CP P.63) in the shooting menu.

1 Select **D**/CALS mode and press ADJ./MEMO.

- 2 Press the ◀► buttons to select ∰.
- 3 Press the ▲▼ buttons to select the setting and then press the MENU/ OK or ADJ./MEMO button.
 - The target shift screen appears.
- 4 Press the ▲▼◀► buttons to position the target over the subject that will be used to set focus or exposure.
 - Pressing the DISP. button returns the display to the screen in Step 2.
- 5 Press MENU/OK or ADJ./MEMO.

Note --

- **6** Press the shutter release button halfway and then gently press it the rest of the way down.
 - In scene mode, the target icon () hanges to). The focus target for macro mode can be selected as described above.
 - This function is not available when [MF] is selected for [Focus] (CPP.63).





2 Taking Pictures in Scene Mode

Scene Mode Options

You can use scene mode to select from among five still image modes and movie, and shoot with settings automatically optimized for shooting conditions.



*	Use when taking pictures in dimly lit places. The picture display also becomes brighter.	
High Sens		
Firefighting	Use to capture images under difficult conditions such as the scene of a fire. The focal length is fixed to 2.5 m, allowing you to take clear pictures in a situation where the auto focus would normally produce blurred images due to flames, smoke and water vapor. Increasing the ISO sensitivity extends the range of the flash, and prevents camera	
	shake by controlling the shutter speed even when the flash is not used. The sharpness level is also increased in this mode and the picture display becomes brighter and is suited for firefighting.	
	Reduce the effects of perspective when	
Skew Correct Mode	photographing rectangular objects, such as message boards or business cards.	
	For detailed operations, see P.54. Image size can be set to [111 4:3 F], [111 4:3 N], or [112 4:3 F] using the [Picture Quality/Size] option (112 P.63) in the shooting menu (112 P.62).	
Text Mode	Use when capturing text images, for example notes written on a whiteboard at a meeting. Images are captured in black and white. Image size can be set to [120 4:3] or [100 4:3] using the [Size] option (127 P.63) in the shooting menu (127 P.62).	
Zoom Macro	The camera automatically zooms to the optimal zoom position to shoot at a higher magnification than in normal macro shooting. Optical zoom can not be used. Macro mode is selected automatically.	
Movie	Allows you to shoot movies with sound. For detailed operations, see P.55.	



When using [Zoom Macro], you can shoot close-ups within the following distances:

Minimum Shooting Distance (from the front of the lens)	Shooting Range
Approx. 1 cm	Approx. 14.8 mm × 11.1 mm
	(when digital zoom is not used)
	Approx. 3.7 mm × 2.8 mm
	(when 4.0 \times digital zoom is used)

Selecting a Scene Mode

- 1 Turn the mode dial to SCENE.
 - The camera is ready to shoot and the selected scene mode is displayed at the top of the picture display.



2 Press the MENU/OK button to change the scene mode.

- The scene mode selection screen appears.
- 3 Select a scene mode.

4 Press the MENU/OK button.

- The scene mode type is displayed at the top of the picture display.
- **5** Press the shutter release button to shoot the picture.







Changing the shooting menu or setup menu setting in scene mode ----

Press the MENU/OK button in shooting mode and then press the \blacktriangleleft button to select [MODE] tab. You can then press \blacktriangledown once to display the shooting menu, twice to display the setup menu.

Using Skew Correction Mode

1 Select [Skew Correct Mode] in the scene mode menu and press the MENU/OK button.

2 Press the shutter release button to shoot the picture.

- The display indicates that the image is being processed, and then the area recognized as the correction range is displayed with an orange frame. Up to five areas can be recognized.
- If the target area cannot be detected, an error message appears. The original image remains unchanged.
- To select another correction area, move the orange frame to the target area by pressing the ▶ button.
- To cancel skew correction, press the ▲ button. Even if you cancel skew correction, the original image remains unchanged.

3 Press the MENU/OK button.

• The display indicates that the image is being corrected, and then the corrected image is recorded. The original image remains unchanged.

Note ------

You can also correct the skew of a previously shot still image (\mathfrak{CP} P.78).

Caution-----

When [Skew Correct Mode] is selected, note the following:

- To shoot the subject as large as possible, position it so that the entire portion of the subject is visible on the picture display.
- The camera may fail to recognize the subject in the following cases:
 - When the image is out of focus
 - When four edges of the subject are not clearly visible
 - When it is hard to distinguish between the subject and background
 - When the background is complicated
- Two images, one before correction and the other after correction, are recorded. If the number of remaining shots is less than two, you cannot shoot the subject.
- The correction area may not be detected properly if the [Date Imprint] function is activated.

Shooting Movies

Select [Movie] in the scene mode menu to record movies with sound. Frame size can be selected as described on P.63. Each movie you shoot is recorded as an AVI file.

Press the shutter release button to start recording. The [**•REC**] icon will blink. To zoom in or out using digital zoom, press [**1**] or [**1**] (**1**] (**1**] **(1**) **(1**] **(1**] **(1**] **(1**) **(**





- While shooting movies, operation sounds may be recorded.
- Movies may be up to 4 GB in size. The maximum length is 12 minutes for movies recorded at a [Movie Size] of [10] 1280] and 29 minutes for movies recorded at [10] 640] or [10] 320]. Depending on the type of memory card used, shooting may end before this length is reached. The maximum total length of all movie files that can be stored depends on the capacity of the memory card (12) P.174).
- Flicker may be visible in movies recorded under fluorescent lights.



🎐 Note-----

- The remaining recording time may not change uniformly because it is recalculated from the remaining memory capacity during movie recording.
- Depending on the remaining battery level, the battery may become depleted during movie shooting. Use of a battery with adequate remaining power is recommended.
- An SD/SDHC memory card with a Speed Class of 6 or better is recommended when recording movies with [III] 1280] selected for [Movie Size] (ICP P.63).

Playing Back Movies

To play back movies, follow the steps below.

1 Select the movie you want to play back in playback mode.

2 Press the ADJ./MEMO button.

 Playback begins. The elapsed playback indicator or the elapsed time is displayed on the screen.

17.NOVION 0001/2229 🚢	50 🖾 (%)
10:05	
AUL : Start	
2010/01/01 00:00	

Fast Forward	Press the 🗭 button during playback.	
Rewind	Press the 🚺 button during playback.	
Pause/Playback	Press the ADJ./MEMO button.	
Slow Playback	Press and hold the 🚺 button during pause.	
Slow Rewind	Press and hold the 🖽 button during pause.	
Next Frame	Press the 🚺 button during pause.	
Previous Frame	Press the 🚺 button during pause.	
Volume Adjustment	Press the ${igat abla} {igstyle abla}$ buttons during playback.	

4 Memos

For information on creating, transferring, and configuring memo lists, see the supplied "Software User Guide".

Image files created with the camera contain fields that can be used to store information about the image. The camera memo function employs these fields for memos that can be used to identify and classify photos. Read this section for basic information on using memos.



- Memos can not be added to movies.
- · SD WORM memory cards do not support memos.
- Note that the presence of commas, multiple periods, or any of the following characters may corrupt the display of item names in Russianlanguage operating systems: \/:?* " <> |

Adding Memos to New Photos

This section describes how to create memos from an existing memo list that has been transferred to the camera.

- 1 Select D/CALS mode and press ADJ./MEMO.
 - The camera memo dialog will be displayed.



2 Create a memo.

 If [Mode1] is selected for [Camera Memo Mode] (IP P.95) in the camera memo menu, press ▲ or ▼ to highlight an item, and then press ▶ and press ▲ or ▼ to choose a description.
 If [Mode2] is selected, press ◀ or ▶ to choose from pre-existing combinations.



3 Press MENU/OK.

• Press MENU/OK to accept the current memo.

4 Take photographs.

• The memo will be added to all new photos.

Viewing Memos

The process for viewing memos varies with the option selected for [Camera Memo Mode] (2 P.95) in the camera memo menu.

Mode1

1 Display the desired photo in playback mode.

 Photographs to which memos have been added are indicated by a "MEMO" icon.



2 Press ADJ./MEMO.

 The memo will be displayed as shown at right. Press ▲ or ▼ to view additional data. If desired, the memo can be edited as described on P.29 of the "Software User Guide".



3 Press MENU/OK.

• Press MENU/OK to return to normal playback.

Mode2

Memos can be displayed only by pressing DISP. during playback (127); memos can not be edited.

5 Using Custom Help

Pressing DISP. when [On] is selected for [Custom Help] (四 P.104) in the expanded settings menu (四 P.98) displays previously-selected JPEG images ("custom help"). Custom help is available in the shooting (四 P.62) and playback (四 P.72) menus.

Creating Custom Help

The JPEG images must first be copied to a memory card and then copied from the card to the camera's internal memory.

1 Ready a memory card.

• Connect the camera or a memory card reader to the computer and insert a memory card that has been formatted in the camera.

2 Copy the images to the [IMPORT] folder.

• Copy the JPEG images to the [IMPORT] folder on the memory card. Be sure that the folder contains no more than 99 images.

3 Disconnect the camera or card reader.

 Disconnect the device as described on P.156. If you are using a card reader, remove the memory card and insert the card in the camera (CP P.27).

4 Select [Admin Mode [Regist]].

 Highlight [Admin Mode [Regist]] in the expanded settings menu (127 P.98) and press ▶. You will be prompted to enter a password.

5 Enter a password.

 Enter the password created using the [Admin Pass Key] option (127 P.104) in the expanded settings menu (127 P.98; the default password is "0000") and press ADJ./MEMO (for information on entering a password, see P.91). A confirmation dialog will be displayed if the password is correct; entering an incorrect password returns you to the expanded settings menu.



6 Select [Yes].

 Highlight [Yes] and press MENU/OK to copy the images to internal memory and return to the expanded settings menu. If memory is insufficient, a warning will be displayed and copying will be interrupted. Any custom help images copied to that point will remain in internal memory.





- Any existing custom help in internal memory is overwritten.
- Custom help can not be copied to a memory card using the [Copy to Card from Internal Memory] option (127 P.73) in the playback menu (127 P.72).

🚺 Caution---

The images used for custom help must conform to the following:

- Color space: YCbCr 4 : 2 : 2 or 4 : 2 : 0
- Dimensions (W \times H): From 32 \times 32 to 4000 \times 3000 pixels, where the width is a multiple of 16 and the height a multiple of 8 (YCbCr 4 : 2 : 2) or 16 (YCbCr 4 : 2 : 0)
- File size: 12 MB or less
- File name: A four-character prefix followed by a four-digit number and the extension "jpg" (e.g., "PLAY0001,jpg")

Viewing Custom Help

1 Display the menus.

• Press MENU/OK to display the shooting or playback menu.

2 Press DISP.

 Custom help is displayed in ascending order by file name. Press ✓ or ▶ to page through help one file at a time, or \blacktriangle or \bigtriangledown to skip ten files forward or back. Custom help can be displayed twenty files at a time (CPP.38) or viewed in enlarged view (P.40), but can not be displaying



using the 🖻 button or deleted by pressing 🗐. Use [Admin Mode [Delete]] (P.104) to delete custom help.

3 Exit.

· Press DISP. to return to the menus or press the shutter release button halfway or rotate the mode dial to exit to shooting mode.



🍳 Deletina Custom Help-----

To delete custom help, select [Admin Mode [Delete]] (CPP.104) in the expanded settings menu (CPP P.98) and use the use the settings menu (CPP P.98) and use the use the setting button as described on P.41.

6 Shooting Menu

The shooting menu is used to adjust camera settings when taking pictures. To display the shooting menu, press the MENU/OK button when the camera is in shooting mode.

Using the Menu

Press the MENU/OK button in shooting mode.

- The shooting menu is displayed.



Indicates the range of displayed screens.

Fictore Gualita/Size	10m iz3 1
facas	DHULLI AF
Exposure Metering	Multi
Continuous Mode	
Image Settings	Standard
Jato Bracket	
Time Exposure	
Interval Shooting	
Casera Stake Cerrection	
late Insrint	



- 2 Press the ▲▼ buttons to select the desired menu item.
 - If the DISP. button is pressed at this point, the cursor moves to the shooting menu tab.
 - Press the ▼ button at the bottom item to display the next screen.
- 3 Press the ▶ button.
 - The menu item settings are displayed.
- 4 Press the ▲▼ buttons to select the setting.
- **5** Press the MENU/OK button.
 - The setting is confirmed, the shooting menu disappears and the camera is ready to shoot.
 - To select the highlighted option and return to the menu shown in Step 2, press the ◀ button.

Shooting Menu Options

Density

Adjust contrast when using the [Text Mode] option in scene mode.

Size

Choose the size of pictures taken using the [Text Mode] option in scene mode.

Movie Size

Choose the movie frame size.

Picture Quality/Size

Adjust picture quality and size when taking pictures.

Focus

MF

S

 ∞

[••]

•

Choose a focusing mode.

– Multi AF

Measures the distances from nine AF areas and focuses to the nearest AF area. Choose to prevent out-of-focus photos.

Spot AF

Selects one AF area at the center of the picture display to allow the camera to focus on this area automatically.

MF

Enables you to adjust the focus manually (1277 P.67).

Snap

Fixes the shooting distance to a short distance (approx. 2.5 m (8.2 ft.)).

∞ (Infinity)

Fixes the shooting distance to infinity. It is useful for shooting distant scenes.

Exposure Metering

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

Multi

The entire shooting range is divided into 256 partitions, and each is metered to determine the overall exposure value.

Center

The entire image is metered, with emphasis on the center, to determine the exposure value. Use this when the brightness of the center and surroundings are different.

Spot

Only the center of the image is metered to determine the exposure value. Use this setting when you want to use the brightness at the center. This is useful if there is a marked difference in contrast or backlighting.

P.174

P174

P.174

P.67



- The shutter speed may slow down and images may be blurred. Hold the camera steady by using a tripod when shooting.
- The picture display turns off while shooting.

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White Balance

Adjust the white balance.

ISO Setting

Adjust ISO sensitivity.

Edit Detection

If pictures taken with [On] selected for this option are transferred to a computer, changes made after the images were recorded can be detected using image authentication software, including the supplied EC1 application.

🚺 Caution--

- Recording times increase when [On] is selected.
- Changes made using the [Resize], [Contrast Correction], and [Skew Correction] options in the playback menu will be detected by image authentication software.

Restore Defaults

Select [Yes] and press the MENU/OK button to restore shooting menu settings to their default values.

🍟 Shooting menu options ------

The options displayed in the shooting menu vary with the selected shooting mode. In scene mode, the options displayed vary with the selected scene. See P.169 for more information.

P.70

P.71

Focus

Manual Focus (MF)

Manual focus (MF) can be used to focus at a selected distance when the camera is unable to focus using autofocus. A focus bar is displayed in the picture display.



1 Press and hold the MENU/OK button as required.

- Pressing and holding the MENU/OK button increases the magnification only at the center of the screen.
- Pressing and holding the MENU/OK button again returns from enlarged view to normal view.
- 2 Adjust the zoom position with the [4] [4] buttons as required.

3 Press the ▲▼ buttons to adjust the focus.

- Pressing the ▲ button adjusts the focus to farther objects and pressing the ▼ button adjusts the focus to closer objects.
- **4** Press the shutter release button to shoot the picture.



range.

Auto Bracket

Choose the type of bracketing performed.

Auto Bracket

If [On] is selected, the camera will take three photos each time the shutter release button is pressed: one underexposed by 0.5 EV, a second at current exposure settings, and a third overexposed by 0.5 EV.



An icon is displayed when [On] is selected.



Note-----

The exposure compensation can be changed using the shooting menu (127 P69).

White Balance Bracket (WB-BKT)

The white balance bracket function automatically records three images—a reddish image, a bluish image, and an image of the current white balance.



An icon is displayed when [WB-BKT] is selected.



- Although white balance bracketing can be selected when [Black & White] is chosen for [Image Settings], bracketing will not be performed.

Exposure Compensation

Use exposure compensation to vary exposure from the value selected by the camera. Choose from values between -2 and +2; negative values produce darker pictures, positive values brighter pictures. Exposure compensation may be required in the following situations:

For backlighting

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

When your subject is whitish

The entire picture will turn out dark (underexposed). Set the exposure level higher (+).

When your subject is darkish

The entire picture will turn out bright (overexposed). Set the exposure level lower (–). The same happens when you take a photo of a subject in a spotlight.

Press the $\blacktriangle \nabla$ buttons to choose a exposure value and press the MENU/OK button. The selected value is displayed in the picture display.





If the subject is very bright or very dark, $[!\, AE]$ will be displayed and exposure compensation will not be available.

White Balance

Adjust the white balance so that a white subject will appear white. At purchase, the white balance mode is set to [Auto]. Change the setting in situations where the white balance is difficult to adjust effectively, such as when shooting an object of a single color or when shooting under multiple light sources.

AUTO	Auto
	Adjusts the white balance automatically.
÷.	Outdoors
213	Select this when shooting outdoors (sunny) and white balance fails to adjust properly.
2	Cloudy
	Select this when shooting in cloudy weather or shade and the white balance fails to adjust properly.
- 0 -	Incandescent 1
7 1	Select this when shooting under incandescent light and white balance fails to adjust properly.
	Incandescent 2
, 9 ₂	Select this when shooting under incandescent light (more reddish, compared with [Incandescent 1]).
崽	Fluorescent
	Select this when shooting under fluorescent light and white balance fails to adjust properly.
WB M	Manual
M	Adjust the white balance manually (🖙 P.71).
6 B	Ring Light
V	Adjust white balance manually as described on P.71. The selected value is not reset when defaults are restored using [Restore Defaults].

- The white balance may not be adjusted correctly for a subject that is mostly dark. In this case, add something white to the subject.
- When shooting with the flash, the white balance may not be adjusted correctly if [Auto] is not selected. In this case, switch to [Auto] to shoot with the flash.

6 Shooting Menu

Manual

Measure white balance. 1

 After selecting [Manual] in the white balance menu and placing a blank piece of paper or other white object under the lighting you wish to measure, aim the camera at the object and press the DISP. button to measure white balance.

Press the MENU/OK button. 2

- The symbol appears on the screen.
- The effect of the selected white balance setting can be previewed in the picture display. Repeat the above steps until the desired effect is achieved.

To cancel [Manual], select a setting other than [Manual].

ISO Setting

ISO sensitivity indicates how sensitive film is to light. A greater value means higher sensitivity. High sensitivity is suitable for shooting an object in a dark place or a fast-moving object while minimizing blurring. When ISO setting is set to [Auto], the camera automatically changes the sensitivity according to the distance, brightness, zoom, macro settings, and picture quality/size. Choose settings other than [Auto] to fix ISO sensitivity at the selected value.



- 🔦 Note-----
 - When the flash is used, the maximum value that will be selected for auto ISO sensitivity is ISO 400. If the flash is off and image size is set to [120] 4:3 Fl or [120 4:3 N], auto ISO sensitivity will be set to values between ISO 64 and ISO 400
 - When the flash is set to [FLASH ON (10M)], the maximum value that will be selected for auto ISO sensitivity is ISO 1600.
 - · Images shot with a higher sensitivity may appear grainy.
 - · When [Auto] is selected for ISO sensitivity, the ISO value displayed when the shutter release button is pressed halfway may in some instances (for example, when the flash is used) differ from the value selected when the shutter is released

Note -----
7 Playback Menu

The options in the playback menu can be used to perform a variety of operations on existing pictures. To display the playback menu, select playback mode and press the MENU/OK button.

Using the Menu

- **1** Press the 🕨 (Playback) button to select the playback mode.
- 2 Press the ▲▼◀▶ buttons to display the desired file.
 - For [Slide Show] (27 P.73), [Copy to Card from Internal Memory] (27 P.73), or [Recover File] (27 P.74), skip this step.
- **3** Press the MENU/OK button.
 - · The playback menu appears.



4 Press the ▲▼ buttons to select the desired item.

 If the DISP. button is pressed at this point, the cursor moves to the playback menu tab.



5 Press the ▶ button.

• The screen for the selected menu item appears.

Resize

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

Original	Resized
12M 4:3F/12M 4:3N/10M 3:2F/5M 4:3F/13M 4:3F/	114:3F/104:3F
2M 4:3F	
1M 4:3F/1M 4:3N	VGA 4:3F

Caution-----Movies cannot be resized.

Trim

P.75

E77

P78

P.79

P80

This function allows you to trim a still image you have shot and then save it as a separate file.

Contrast Correction

Create copies of photographs with modified brightness and contrast.

Skew Correction

Create copies that have been processed to reduce the effects of perspective on rectangular objects.

Protect

Protect images from accidental deletion.

Slide Show

🔦 Note----

You can display the recorded still images and movie files sequentially on the screen.

• Each still image is displayed for three seconds.

• Movies are played back in their entirety.

Copy to Card from Internal Memory

Copy all data from internal memory to a memory card in a single operation.

🕭 Note--

- If there is not enough space available on the destination memory card, a warning will be displayed. Select [Yes] to copy only those files for which there is sufficient space.
- It is not possible to copy the contents of an SD memory card to the internal memory.

DPOF

Select pictures for printing.

7 Playback Menu

Recover File

Restore deleted files.

🚺 Caution-----

Deleted files cannot be restored after performing any of the following operations.

- Turning the camera off
- Switching from playback mode to shooting mode
- Using DPOF, Resize, Copy to Card from Internal Memory, Skew Correction, Contrast Correction or Trim
- Files with DPOF settings are deleted
- Internal memory or SD memory card is initialized
- Altering memos in playback mode

File Send

C P.105

Copy files to a computer over a wireless LAN or using Bluetooth®.

Trim

Create a cropped copy of the current photograph.

Press Q or 🖬 to adjust the crop size and press \blacktriangle , \bigtriangledown , \blacklozenge , or \triangleright to position the crop.

Press the MENU/OK button to save the cropped image to a separate file.





- Caution-----
 - · You can only trim still images shot using this camera.
 - · While you can trim an image repeatedly, the image is recompressed each time and there will be some decline in image quality.



- To cancel, press the DISP. button.
- To view help, press the 🛍 button while the crop display is shown in the picture display. Press the 🛍 button again to exit help.
- If an image is trimmed, the compression ratio changes to Fine.
- The available settings for the trimming frame size differ depending on the original image size.

Original image size	Trimming level	Trimmed image size
	1, 2	4000×3000
	3	2592×1944
1200 4 : 3 F/1200 4 : 3 N	4, 5	2048×1536
(4000×3000)	6	1600×1200
	7 to 10	1280×960
	11 to 14	640×480
	1	2592×1944
• 2 25	2, 3	2048×1536
000 3 : 2 F (3984 × 2656)	4	1600×1200
(5964 X 2050)	5 to 7	1280×960
	8 to 11	640×480
	1	2592×1944
m 4 35	2	2048×1536
500 4 : 3 F (2592 × 1944)	3	1600×1200
(2392 × 1944)	4 to 7	1280×960
	8 to 12	640×480
	1	2048×1536
3M 4:3F	2	1600×1200
(2048×1536)	3 to 6	1280×960
	7 to 10	640×480
2M 4:3F	1	1600×1200
(1600×1200)	2 to 4	1280×960
(1000 × 1200)	5 to 9	640×480
100 4:3F/100 4:3N	1 to 3	1280×960
(1280×960)	4 to 8	640×480
VGA 4:3F (640×480)	1 to 4	640×480

Contrast Correction

Create copies that have been processed to adjust brightness and contrast.

Highlight [Contrast Correction] in the plavback menu and press b to display a level slider and histogram.

Press **A** to make the photo brighter, or ▼ to make it darker. Five settings are available.



Press the MENU/OK button. The display indicates that the image is being corrected, and then the corrected image is recorded.



Caution--

- If the camera can not create a corrected copy, an error message will be displayed and the camera will exit to the playback menu.
- To cancel contrast correction, press the DISP, button.
- You can correct the contrast for still images shot with this camera. You cannot correct the contrast for movies
- The desired results may not be achieved with photographs taken with [Text] Mode] selected in scene mode or with [Black & White] selected for [Image Settings].
- While you can use contrast correction repeatedly, the image is recompressed each time and there will be some decline in image guality.

Skew Correction

Create copies that have been processed to reduce the effects of perspective on rectangular objects, such as message boards or husiness cards



Caution-----

You can use skew correction for still images shot with this camera. You cannot use skew correction for movies



Note -----

- If the camera is able to detect an object that can be used to correct perspective. a message will be displayed with the object shown by an orange frame. The camera can detect up to five objects.
- If the target area cannot be detected, an error message appears. The original image remains unchanged.
- To select another correction area, move the orange frame to the target area by pressing the button.
- To cancel skew correction, press the

 button. Even if you cancel skew correction, the original image remains unchanged.
- The image size does not change for skew corrected images.
- If the image size is large, skew correction will take time. Resize the image (CPP.73) before performing skew correction to speed up the process.
- The following table shows the approximate time required for skew correction.

Image Size	Correction time	Image Size	Correction time
12M 4 : 3 F	Approx. 29 seconds	2M 4:3F	Approx. 6 seconds
12M 4:3N	Approx. 28 seconds	110 4:3F	Approx. 4 seconds
10M 3:2F	Approx. 24 seconds	1M 4:3N	Approx. 4 seconds
5M 4:3F	Approx. 13 seconds	VGA 4:3F	Approx. 2 seconds
3M 4:3F	Approx. 8 seconds		

 When scene mode is set to [Skew Correct Mode], you can shoot an image and then immediately correct any skew in the image (127 P.54).

Protect

[Protect] allows you to protect files from being accidentally deleted.

If [1 File] is selected, you can protect or unprotect the file selected by pressing the buttons.



If [Select All] or [Cancel All] is selected, you can protect or unprotect all files.

Selecting Multiple Files

Select [Sel Mult] to change the protect status of multiple individual files or of all files in a selected range.

To select multiple individual frames:

- **1** Select [Sel. Indiv.] and press the MENU/OK button.
- 2 Select a frame and press the MENU/OK button.
 - Press the ADJ./MEMO button to switch to the display for specifying a range of files.
 - If you selected a file by mistake, you can deselect it by selecting the file and pressing the MENU/OK button.
 - Select all files you want to protect.
- 3 Press the 🗑 button.

To select two frames and all frames between them:

- **1** Select [Sel. Range] and press the MENU/OK button.
- 2 Select the first frame and press the MENU/OK button.
 - Press the ADJ./MEMO button to switch to the display for specifying files separately.
 - If you make a mistake when selecting the starting point for the range of files, press the DISP. button to return to the screen for selecting the starting point.

- **3** Select the last frame and press the MENU/OK button.
 - Repeat Steps 2 and 3 to select multiple ranges.



- 4 Press the [™] button.
- Caution-----

Note that formatting deletes all files, including protected files.

DPOF

To request professional prints of the photographs on a memory card, first use this option to create a digital "print order" listing the photos you wish to print and the number of prints, and then take the memory card to a digital print service center that supports the DPOF standard.



To add a photo to or remove it from the print order, select [1 File] and press the $\triangleleft \triangleright$ buttons to display the desired file.

Select [Select All] to add all photos to the print order, or [Cancel All] to remove all files from the print order.

Selecting Multiple Files

To change the print status of multiple individual files, select [DPOF] in thumbnail view.

Select photos and press the $\blacktriangle \nabla$ buttons to choose the number of prints; press the \blacktriangle button to increase the number of copies, or press the ∇ button to decrease the number of copies.

Press the MENU/OK button to exit when settings are complete.

Note

To remove the DPOF settings for multiple still images, follow the same steps described above to set the number of copies to print to [0] for each image, and then press the MFNU/OK button.

Viewing Pictures on TV

To view pictures on a TV, connect the camera using the supplied AV cable.

- Securely connect the AV cable to the Video Input Terminal (yellow) 1 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).
- 2 Turn the camera off and securely connect the cable to the camera AV output terminal.



Audio Input Terminal (white)

- 3 Set the television to Video mode (Set the input to Video). For details, see the documentation that came with the television.
- 4 Press the POWER button, or press and hold the 돈
 - (Playback) button to turn the camera on.
- Caution-----
 - When the AV cable is connected to the camera, the picture display and the speaker output turn off.
 - Do not force the AV cable into the terminal.
 - Do not apply excessive force with the AV cable connected.
 - When using the AV cable, do not move the camera with the AV cable.



- Note -----· You can connect the AV cable to the Video In terminal on your video recorder
 - and record what you have shot to a video recorder.
 - · The camera supports the following video standards: NTSC and PAL. Where possible, the camera is set to the standard used in your country or region before shipment: before connecting the camera to a device that uses a different video standard, choose the appropriate video mode (127 P.86).

8 Setup Menu

You can change the camera settings by displaying the setup menu from the shooting menu (1277 P.62) or playback menu (1277 P.72).

Using the Menu

1 Press the MENU/OK button.

• The shooting menu (or the playback menu) appears.

2 Press 4 to highlight the tab for the current menu.

- **3** Press ▲ or ▼ to highlight the setup menu tab.
 - The setup menu tab is second from the top.



Indicates the range of displayed screens.

4 Press ► to place the cursor in the setup menu.

5 Press the ▲▼ buttons to select the desired item.

- If the DISP. button is pressed at this point, the display returns to the screen shown in Step 3.
- Press the ▼ button at the bottom item to display the next screen.
- 6 Press the ▶ button.
 - The menu item settings are displayed.
- 7 Press the ▲▼ buttons to select the setting.





Press MENU/OK, or press < and then MENU/OK. 8

- The setup menu disappears and the camera is ready for shooting or playback.
- The setup menu may appear depending on the setting. In this case, press the MENU/OK button to return to the shooting or playback screen.
- returns to the screen shown in Step 5.



Note -----

For some functions, the setting selection method may differ from what is explained here. For detailed operation, see the explanation of each function.

Setup Menu Options

Format [Card]

Select [Yes] and press the utton to format the memory card.



Do not turn the camera off during formatting. Failure to observe this precaution could result in the system files used by the camera being deleted.

Format [Internal Memory]

Select [Yes] and press the utton to format internal memory. If you have images in the internal memory that you do not want to delete, copy the images to the SD memory card before formatting the internal memory (127 P.73).



Caution-----

Do not turn the camera off during formatting. Failure to observe this precaution could result in the system files used by the camera being deleted.

LCD Brightness

Press the $\Delta \nabla$ buttons to adjust the brightness of the picture display.

Reg. My Settings

P.88

Save current camera settings.

Stepped Zoom

Select [On] to allow zoom to be adjusted in discrete steps that on a 35-mm camera would be equivalent to focal lengths of 28 mm, 35 mm, 50 mm, 85 mm, 105 mm and 140 mm. In macro mode, the stepped zoom focal lengths are roughly equivalent to 33, 35, 50, 85, 105 and 140 mm on a 35-mm camera.

ADJ Button Setting 1-4

Choose the role performed by the ADJ./MEMO button.

AF Auxiliary Light

If [On] is selected, the AF auxiliary light will light to assist autofocus.

Operation Sounds

Choose the sounds made by the camera.

Available Settings	Description
All	All sounds on.
Level Sound	Only the level sound is emitted.
Shutter Sounds	Only the shutter sound and level sound are emitted.

P50

S Note-----

If you try to perform an operation that cannot be performed, the beep sound is emitted regardless of the [Operation Sounds] setting.

Volume Settings

The operation sound volume can be changed.

🕭 Note-

When [Volume Settings] is set to $[\square\square\square]$ (Mute), the level sound is not emitted even when [Level Setting] is set to [Disp + Snd] or [Sound].

LCD Confirmation Time

Choose how long photos are displayed after shooting. Photos will not be displayed if [Off] is selected.

Auto Power Off

Choose how long the camera remains on when no operations are performed. The camera will not turn off automatically if [Off] is selected, during interval timer photography (1277 P65), or when the camera is connected to a computer or printer.

Monitor Auto off Delay

Choose the delay before the picture display turns off automatically to save power when no operations are performed. Once the display has turned off, any operation will reactivate the display. This option takes effect only when [Off] is selected for [Auto Power Off].

LCD Auto Dim

If [On] is selected, the picture display will automatically dim to save power if no operations are performed for about five seconds. This feature is not available in synchro-monitor mode (ICP P.44).

Digital Zoom Image

Choose [Auto Resize] to record pictures taken with digital zoom at actual size, [Normal] to enlarge image data from the center of the frame.

Level Setting

Adjust level indicator and level sound settings.

Grid Guide Display Options

Choose the type of framing grid available in shooting mode.

Available Settings	Description
	A three-by-three grid for "rule of thirds" composition.
	A four-by-four grid with diagonal lines running from corner to corner makes it easy to find the center of the subject. Use for architectural photography or photographing products for display.
	A two-by-two grid with the center of the frame left clear to make it easier to view the subject. Use if your subject is in motion.

Shooting Info. Display Frame

Select [On] to display shooting icons in a frame surrounding the view through the lens (\mathbb{CP} P.44). Shooting information display frame cannot be used in movie mode.

Auto Rotate

Select [On] to automatically display pictures in the correct orientation during playback.



P.44

P.46

P.89

Card	Sequence	e No.
------	----------	-------

When you switch SD memory cards, you can set your camera to continue consecutive numbering from the previously loaded card.

Available Settings	Description
On (Continue numbering)	Files names consist of "R" followed by a seven-digit number (e.g., "R0010001.jpg"), assigned in ascending order from 0010001 to 9999999. When a new memory card is inserted, file numbering continues from the last number used.
Off (Do not continue numbering)	File numbering is assigned, from RIMG0001.jpg to RIMG9999. jpg, for each SD memory card. When the file name reaches RIMG9999, no more data can be recorded to that card.

- 🕙 Note-----
 - This option applies only to memory cards. The names of photos in internal memory consist of "RIMG" and a four-digit number.
 - When images are transferred to a computer using DL-10 (CP P.155), the file being transferred is renamed and saved.

Date Settings

P.30

Set the camera clock.

- 🔊 Note-----
 - If the battery is removed for more than three days, the date and time settings will be lost. These settings must be made again.
 - To retain the date and time settings, load a battery with adequate remaining power for more than ten hours.

Language/言語 (*)

CT P.29

You can change the language displayed on the screen.

Video Out Mode (*)

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. Select from NTSC (used in North America, the Caribbean, parts of Latin America, and some East Asian countries) and PAL (used in the United Kingdom and much of Europe, Australia, New Zealand, and parts of Asia and Africa). SECAM is not supported.

(*) The default setting varies depending on where you purchased the camera.

CALS Pic Quality

Choose picture quality and size options for CALS mode (P.37).

Start Date/Time

Select [On] to display the current time and date when you turn the camera on and select shooting mode.

Choose/Change Password

Choose a password or change the current password. Passwords restrict access to some camera functions.

Password Protection

Restrict access to some or all camera functions. Select [Off] to allow unrestricted access.

Password Validity Period

Choose how long the camera can be used without re-entering the password. This option takes effect only when [Camera] or [Int. Memory] is selected for [Password Protection]. If [Off] is selected, the camera can only be accessed by re-entering the password.

Power Button Hold Options

If [On] selected, the POWER button must be pressed for at least two seconds to turn the camera on and for at least five seconds to turn the camera off.

∞ Setup Menu

E 290

P.92

Reg. My Settings

Save current camera settings in [MY1] or [MY2]. Settings saved in [MY1] are recalled when the mode dial is rotated to MY1, those saved in [MY2] when the mode dial is rotated to MY2.

- 1 Set the camera to the desired settings.
- 2 Select [Reg. My Settings] in the setup menu (12 P.82) and press the button.
 - A confirmation message appears.
- Select [MY1] or [MY2] and press the MENU/OK button. 3
 - The current camera settings are registered and the display returns to the setup menu.
 - If you do not want to register them, press the DISP. button.

Settings Saved in [Reg. My Sett	ings]
Shooting mode (CALS/D/MY1/MY2/SCENE)	WB-BKT
Focal distance used in Manual	Time Exposure
Zoom position	Camera Shake Correction
Macro	Date Imprint
Flash Mode	Exposure Compensation
Scene mode	White Balance
Self-Timer	ISO Setting
DISP. mode	Edit Detection
Density	Stepped Zoom
Picture Quality/Size	Digital Zoom Image
Focus	Level Setting
Exposure Metering	Grid Guide Display Options
Continuous Mode	Shooting Info. Display Frame
Image Settings	CALS Pic Quality
Auto Bracket	

Digital Zoom Image

If [Normal] (the default option) is selected for [Digital Zoom Image], digital zoom will enlarge image data from the center of the frame to create a picture at the current image size, creating a slightly grainy image. To record pictures taken with digital zoom at actual size, select [Auto Resize]. The size at which the image will be recorded varies with the zoom ratio.

Auto resize takes effect if you keep the [4] button pressed when the zoom bar is full. The size will then change each time the [4] button is pressed; the current size is displayed above the zoom bar.



Zoom Magnification and Recorded Image Size

Picture Quality/Size	Zoom Magnification	Focal Length (*)
12M 4:3F/12M 4:3N	1.0×	140 mm
5M 4:3F	1.5×	210 mm
3M 4 : 3 F	2.0×	270 mm
11 4:3F	3.1×	430 mm
VGA 4:3 F	6.3×	870 mm

(*) Equivalent to that on a 35 mm camera



- Regardless of the option selected, normal digital zoom is used when [Skew Correct Mode] is selected in scene mode.
- Fine picture quality is used for all photographs recorded using [Auto Resize], regardless of the option currently selected for [Picture Quality/Size].

Choose/Change Password

Choose the password that must be entered to access password-protected settings (IPP P.92). The password can be a barcode or a phrase entered via an on-screen keyboard.



🕭 Note-----

The current password is required to change an existing password.

Barcode

Frame the barcode in the picture display and press MENU/OK. If the camera can read the code, it will set the password to the barcode and return to the previous menu. Press DISP. to exit without entering a new password.

Rea	d Barcode		
	Aim the read and press O	der at the barcoo K.	ie
			_
DIS	R Cancel	CK Exe	cute

The camera can read linear and matrix barcodes.



Note -----





Matrix (QR)



Matrix (PDF417)



You will be prompted to enter a password whenever you attempt to access functions protected using [Password Protection]. Frame the password barcode in the picture display and press MENU/OK. If the barcode is incorrect, a message will be displayed; select [Yes] to return to the password entry dialog.

Read	l Barcode)		
	Aim the barcode	reader at and pres	the passwor s OK.	4
DIS	Cancel		CK Execu	te

Keyboard

1 Enter a password of up to 16 characters.

 Highlight characters using ▲, ▼, ◄, or ▶ and press MENU/OK to enter the highlighted character at the current cursor position (to delete the character at the current cursor position, select [Delete]). Press ADJ./MEMO when entry is complete (to exit without changing the password, press DISP).

Password area



Keyboard area

2 Re-enter the password.

 A confirmation dialog will be displayed; re-enter the password as described above to save the password and return to the setup menu. If the passwords do not match, a message will be displayed and the camera will return to the password entry dialog.

🚺 Caution--

You will be prompted to enter a password whenever you attempt to access functions protected using [Password Protection]. Enter the password as described in Step 1, above. If the password is incorrect, a message will be displayed; select [Yes] to return to the password entry dialog.

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										ie ac	aj,

∞ Setup Menu

Password Protection

Choose the camera functions protected with the password selected using [Choose/Change Password] (127 P.90). Five options are available.

Off

Choose this option to allow unrestricted access to all camera functions. No password is required.

Camera

You will be prompted to enter a password when the camera is turned on. The camera can not be used until you enter the password; if an incorrect password is entered, the camera will turn off automatically.

Int. Memory

Caution-

If a memory card is inserted, this option is the same as [Camera]. If no memory card is inserted, you will be prompted to enter a password before viewing the images in internal memory (no pictures will be displayed until the correct password is entered) and when connecting the camera to a computer or printer (if an incorrect password is entered, the camera will turn off).

You will also be prompted to enter a password if you select [Format [Internal Memory]] after entering an incorrect password. Entering the correct password will allow you to format internal memory; entering an incorrect password will

cause the camera to exit without formatting internal memory.

SD WORM

No password is required when SD WORM cards (12 P.24) are used. If no memory card is inserted or another type of card is used, you will be prompted to enter a password when the camera is turned on. Entering an incorrect password will cause the camera to turn off.

Menus

A password is required to display the camera menus. The menus and ADJ. mode can not be used until the correct password is entered.



🖗 Lost Passwords -----

Do not forget your password. If you forget your password, contact one of the Ricoh offices listed on the back cover of this manual

9 Camera Memo Menu

Using the Menu

- **1** Press the MENU/OK button.
 - The shooting menu (or the playback menu) appears.
- 2 Press 4 to highlight the tab for the current menu.
- 3 Press ▲ or ▼ to highlight the camera memo menu tab.
 - The camera memo menu tab is third from the top.



Indicates the range of displayed screens.

- 4 Press ▶ to place the cursor in the camera memo menu.
- 5 Press the ▲▼ buttons to select the desired item.
 - If the DISP. button is pressed at this point, the display returns to the screen shown in Step 3.
 - Press the ▼ button at the bottom item to display the next screen.

6 Press the ▶ button.

- The menu item settings are displayed.
- 7 Press the ▲▼ buttons to select the setting.

8 Press MENU/OK, or press ◀ and then MENU/OK.

- The camera memo menu will close and the camera will return to shooting or playback.
- Pressing the ◀ button in Step 8 confirms the setting and the display returns to the screen shown in Step 5.





Camera Memo Menu Options

Choose from the following options:		
Available Settings	Description	
Mode1	Choose a separate description for each item	

 Mode1
 Choose a separate description for each item.

 Mode2
 Choose from pre-selected combinations. Descriptions can not be selected for individual items.

Memo Skip

Camera Memo Mode

"Software User Guide" 😰 P.28

"Software User Guide" CP P.28

When choosing memos with [Mode2] selected for [Camera Memo Mode], you can press and hold \blacktriangleleft or \blacktriangleright to skip memos with identical descriptions for a selected item. Choose from items 1 to 5.



This option only takes effect when [Mode2] is selected for [Camera Memo Mode].

Mark Memo Added to Photos

When [On] is selected, [Memo Marking] will appear in the camera memo dialog for memos that have been added to photographs. Marking can be removed by pressing **t** in the camera memo dialog or by selecting [Remove Memo Marking].



DISR FILE LIST OK Memo On

S Note-----

This option only takes effect when [Mode2] is selected for [Camera Memo Mode].

Remove Memo Marking

Remove [Memo Marking] marking from the camera memo dialog for memos that have been added to photos taken with [On] selected for [Mark Memo Added to Photos].

Memo Warning

If [On] is selected, a warning will be displayed and the shutter release will be disabled if you attempt to take a photograph with the description for one or more memo items set to [No Setting]. The shutter release can be enabled by choosing a description for the affected items.



This option has no effect when [Mode2] is selected for [Camera Memo Mode] or [On] is selected for [Camera Memo 1 Auto Delete].

Display Memo at Startup

Select [On] to display the camera memo dialog when the camera is turned on.

🕏 Note-----

This option is only available if a memo list has been transferred to the camera.

Memo Increment

"Software User Guide" 🕼 P.32

If [On] is selected, numbers that appear at the end of memo descriptions can be increased or decreased by pressing \blacktriangle or \blacktriangledown .

Camera Memo Imprint

Select [On] to stamp the first three memo items on photographs.



 Only the first ten letters of the item name and first 32 letters of the description will appear on photographs. Only the first 31 letters (including the item name and the colon that appears between the item name and the description) will appear on photographs taken with [100] 4:3 F] selected for [Picture Quality/ Size].

This option has no effect when [Mode3] is selected for [Barcode Mode].

Camera Memo 1 Auto Delete

If [On] is selected, the description for the first memo item will automatically be set to [No Setting] when the camera is turned on, a photograph is taken, or a memo list is transferred to the camera. A warning will be displayed and the shutter release will be disabled if you attempt to take a photograph with the description for the first item still set to [No Setting]. The shutter release can be enabled by choosing a description for the first item.



This option has no effect when [Mode2] is selected for [Camera Memo Mode].

Barcode Type

Choose from the following options:

Available Settings	Description
Auto	The camera automatically detects the barcode type.
Linear	Use for linear barcodes. The following types are supported: EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (with add-ons), Interleaved 2 of 5, CODEBAR (NW-7), CODE 39, CODE 93, CODE 128 TYPE C, GS1-128 (EAN-128), and RSS (GS1 DataBar).
QR Code, Micro QR Code, DataMatrix, PDF417, Micro PDF417, MaxiCode, EAN.UCC	When scanning matrix barcodes, choose the option that corresponds to the type of barcode that will be scanned.

- 🔦 Note--
 - The camera can read linear barcodes of up to 32 digits and matrix barcodes of up to 2400 digits.
 - Voice memos are not available with matrix barcodes.

Barcode Mode

"Software User Guide" **L** P.36

Choose where barcode data are stored.

Available Settings	Description	
Mode1	The barcode is stored in the memo list as a temporary description for the first item. This description is overwritten each time a barcode is read.	
Mode2	The first barcode read is stored in the memo list as a temporary description for the first item, the second barcode as a temporary description for the second item, the third barcode as a temporary description for the third item, and the fourth barcode as a temporary description for the fourth item. These descriptions are overwritten in turn as new barcodes are read.	
Mode3	This option only takes effect in shooting mode. Up to fifty barcodes can be stored in the memo list as temporary descriptions for the first item. These data can be viewed in the camera memo dialog before shooting but can not be changed and are deleted after a photograph is taken.	

Scan Time

Note -----

Choose the maximum time the camera will wait for a barcode to be scanned. Scanning will be interrupted if a barcode is not read in the specified time.

If [27 seconds] or [30 seconds] are selected when a BR-1 barcode reader (available separately) is connected, the scan delay will be set to 25.5 seconds.

10 Expanded Settings Menu

Using the Menu

Press the MENU/OK button. 1

• The shooting menu (or the playback menu) appears.

2 Press < to highlight the tab for the current menu.

- 3 Press **A** or **V** to highlight the expanded settings menu tab.
 - The expanded settings menu tab is fourth from the top.

Indicates the range of displayed screens

data Select

Data Imprint

NGS-SI

Bluetcott

Cardinal

LATA ON View Memo Cot

Press b to place the cursor in the expanded settings menu. 4

- 5 Press the **AV** buttons to select the desired item.
 - · If the DISP. button is pressed at this point, the display returns to the screen shown in Step 3.
 - to display the next screen.

Press the button. 6

- · The menu item settings are displayed.
- Press the **AV** buttons to select the 7 setting.

Press MENU/OK, or press 4 and 8 then MENU/OK.

- The expanded settings menu will close and the camera will return to shooting or playback.
- Pressing the

 button in Step 8 confirms the setting and the display

 returns to the screen shown in Step 5.

Expanded Settings	1/3
C 1675 Datur	NGS-54
675 Sizz Made	DLAT/LON
EPS Lock	Dft
GPS Data Select	Bluetooth
6PS Track Time	
Ex Telete GFS Log	
Compass Heading	Cardinal
Consass Calibratism	
GPS Data Imprint	
UTC Data Imprint	
MES: Finish	Select







For some functions, the setting selection method may differ from what is explained here. For detailed operation, see the explanation of each function.

Expanded Settings Menu Options

GPS Datum

Choose the geodetic system used when a GP-1 or Bluetooth®-equipped GPS unit is connected.

Available Settings	Description
TOKYO	The system in common use in Japan.
WGS-84	The system in common use internationally.

GPS Disp Mode

Choose the format used to display GPS data from a GP-1 or Bluetooth®-equipped GPS unit.

Available Settings	Description
LAT/LON	Show latitude and longitude.
UTM	Use U niversal T ransverse M ercator projection (UTM).
MGRS	Use the Military Grid Reference System (MGRS).
ALL	Display all of the above.

GPS Lock

If [On] is selected when a GP-1 or Bluetooth[®]equipped GPS unit is used, the ► button can be used to disable or enable the reception of new GPS data.



Caution

- If [2Touch] is selected for [Quick Send Mode] (127 P.104), files can not be transmitted when IGPS Lock1 is on.
- Changing the option selected for [GPS Datum] or [GPS Data Select] ends GPS lock.

GPS Data Select

	e is used when both a GP-1 and a B	1.11
unit are connected. (Bluetooth®-equipped	Choose [GPS Options] to use the GF d GPS unit.	P-1, [Bluetooth] to use the
· · · · · · · · · · · · · · · · · · ·	ected, the compass heading is availa	
GPS Track Time		
Choose the interval a will not be logged if	at which GPS log data are written to [Off] is selected.	the memory card. GPS data
🕭 Note		
	ored in the "GPSLOG" folder as files n it file number followed by the exten	
 A new log file is created if the date has changed since the last log file was created or when the current log file exceeds 500 KB in size. 		
 Log files are not created if the memory card is locked (127) P.25), an SD WORM card is used, or the memory card is full or not inserted. No warning is displayed if a log can not be created because the card is full. 		
memory card u	eleted using the [Delete GPS Log] op using the [Format [Card]] option (🗹 es not delete GPS log files.	
Delete GPS Log		
Highlight [Yes] and p	press MENU/OK to delete all GPS log	g files.
Note		
GPS logs can n	not be deleted if the memory card is	locked (🕼 P.25).
	e memory card using the [Format [C	
	P.82) does not delete GPS log file	25.
Compass Heading		
	sed to display compass headings or Bluetooth®-equipped GPS	6)
units that supply cor	npass data.	359.2°//NNW/mag
		E:189° KAI N:(35°
		Degrees Points
Available Settings	Description	
Cardinal	The heading is displayed using poi	nts of the compass.
	The heading is displayed using bot	

Compass Calibration

If a GP-1 is connected, its compass can be calibrated by highlighting [Yes], pressing MENU/OK, and then holding the camera in one hand and slowly moving it through a large figure eight while rotating your wrist. Each pass should take from five to eight seconds; a beep will sound if calibration is successful, a warning buzzer if it is not. Press DISP. to cancel and exit to the expanded settings menu before calibration is complete.



GPS Data Imprint

Select [On] to record GPS data with photographs taken while a GP-1 or Bluetooth*equipped GPS unit is connected. GPS data are recorded in the format selected for [GPS Disp Mode] (127 P.99). GPS data are not recorded when [Off] is selected or when GPS data are unavailable.

UTC Data Imprint

Select [On] to record the time provided by the GPS unit with photographs taken while a GP-1 or Bluetooth[®]-equipped GPS unit is connected. The time is not recorded when [Off] is selected or when GPS data are unavailable.

Heading Data Imprint

If a GP-1 or a Bluetooth®-equipped GPS unit that supplies compass data is connected, select [On] to record the compass heading in the format selected for [Compass Heading] (127 P.100). The compass heading is not recorded when [Off] is selected or when GPS data are unavailable.

Range Finder Mode

Choose how data acquired from a Bluetooth®-equipped laser range finder (available separately from third-party suppliers) are handled.

Available Settings	Description	
Mode1	Range data always appear in the picture display.	
Mode2	Range data are displayed until a photograph is taken.	
Mode3	Photos are taken automatically as range data are acquired.	

Communication Mode

Choose whether data transmitted using [File Send] (1277, P.74) and quick send (1277, P.104) are sent via wireless LAN ([W-LAN]) or Bluetooth® ([Bluetooth]).

Import Communication Setting

P.125

E128

Highlight [Yes] and press MENU/OK to load a host list previously created and transmitted to the camera using the supplied ST-10 software (127) P.123). Host lists are required when sending files from the camera to a computer via a wireless LAN (127) P.112).

Send To

View, edit, or choose a host from a host list.

S Note----

If you do not select a host using this option before connecting to a wireless LAN, the camera will attempt to connect to the first host in the list when pictures are sent with [Off] selected for [Send Status] or quick send is used with [1Touch] selected for [Ouick Send Model (127)].

Send Status

Select [On] to select a host every time pictures are sent, [Off] to send pictures to the host selected with [Send To]. Choose [Off] if you always use the same host.

Simple Connection

Use a simple connection method to connect to the wireless host or access point when sending data via wireless LAN.

Bluetooth Pass Key

Enter a password for Bluetooth® connections, allowing the camera to supply the password automatically when it connects to a password-protected Bluetooth® device.

🕭 Note-

- For information on using passwords with a Bluetooth[®] device, see the documentation provided with the equipment.
- The camera supports passwords of up to 16 characters.
- If this option is not used, the password must be entered manually each time the camera connects to the device.
- The camera can store only one password at a time. When connecting to multiple devices, ensure that they share the same password.
- Before changing an existing password, enter the current password and press MENU/OK.

Bluetooth Search Count

Choose the maximum number of Bluetooth® devices (1–10) that will be detected by the camera.

Bluetooth Auto Conn

If [On] is selected when the camera is turned on, the camera will automatically connect to any Bluetooth® devices to which it was connected when it was turned off.

Bluetooth Serial

Lists the Bluetooth® devices detected by the camera. Press \blacktriangle or \blacktriangledown to highlight a device and press MENU/OK to connect.

Bluetooth Master/Slave

Choose [Master] to allow the camera to be used with multiple Bluetooth* devices simultaneously, [Slave] to allow it to be used with only one device at a time.

Image File Size

Images will automatically be converted to the selected size during transmission. Select [No Alter] to send images at their original size.

🚺 Caution-

Images are automatically converted to a supported size when sent to BIP-profile Bluetooth[®] devices; as a result, images may not be converted to the size selected with [Image File Size].

10

P138

E137

Auto Delete

Select [On] to automatically delete files from the camera after they have been transmitted to a computer.

Quick Send Mode

🖅 P.108

P59

Upload pictures to a computer as they are taken.

Bluetooth Profile

Choose a profile for connection to Bluetooth® devices.

Available Settings	Description	
OPP/BIP	Use BIP if device does not support OPP; otherwise use OPP.	
OPP	Use OPP (O bject P ush P rofile).	
BIP	Use BIP (B asic Imaging P rofile).	

Custom Help

Select [On] to enable custom help.

Admin Pass Key

Choose a password for custom help.

- Note
 The password for custom help is not the same as the password selected for [Choose/Change Password] (127 P.90).
 - See "Keyboard" (IPP P91) for information on entering a password. Barcode readers can not be used.

Caution-----

Do not forget your password. If you forget your password, contact one of the Ricoh offices listed on the back cover of this manual.

	Admin Mode [Regist]	P.59
Copy custom help (JPEG image files) from a memory card to internal memory.		emory.
	Admin Mode [Delete]	P.61
	Delete selected custom help files.	

11 Bluetooth®

The camera supports both Bluetooth® and wireless LAN for wireless data transfer. Bluetooth® can be used to connect simultaneously to multiple computers and other devices. Before using Bluetooth®, select [Bluetooth] for [Communication Mode] (P.102) in the expanded settings menu (EPP P.98).

Bluetooth® Connections

Complex settings are not required to transfer images via Bluetooth[®].

- 1 Select [Bluetooth] for [Communication Mode].
 - Select [Bluetooth] for [Communication Mode] (B P.102) in the expanded settings menu (CPP.98).



2 Transfer images.

 Transfer images using guick send (PP P.104) or the [File Send] option (@ P.74) in the playback menu (@ P.72). The camera will automatically detect potential hosts; select a host to begin transfer (a password may be required).



Caution----

- Bluetooth® has a maximum range of about 10 m (33 ft.); ensure that there are no obstacles between the two devices.
- The camera can communicate with devices that use the Basic Imaging Profile (BIP) or Object Push Profile (OPP). Consult the documentation provided with the Bluetooth® device.
- Movies can not be transferred via Bluetooth®

Entering a Password

If an authentication key, or password, is required for connection to a Bluetooth[®] device, a message will be displayed. Enter a password as described below.



Press MENU/OK.

· An on-screen keyboard will be displayed.

2 Enter the password.

 Enter a password as described on P.91 (for information on selecting a password, consult the documentation provided with the host device). If you do not enter the correct password within 30 seconds, an error message will be displayed; press MENU/OK to try again.



Press MENU/OK.

- · Press MENU/OK to begin transfer.
- 🕭 Note--

2

- The camera supports passwords of up to 16 characters.
- The camera stores the password and performs authentication automatically when you next connect to the device; no further password entry is required. If desired, the password can be stored in the camera before the connection is made (ICP P.103).
- If the Bluetooth[®] device displays a password-entry dialog before the camera, enter the password on the device first and then enter the same password on the camera.

Bluetooth®

Transferring Images During Playback (Bluetooth®)

Images can be copied to Bluetooth® devices using the [File Send] option in the playback menu (P.72).

- Select [File Send]. 1
 - Select [File Send]. If you intend to copy only one picture, display the picture full frame before proceeding. Highlight [File Send] in the playback menu (127 P.72) and press ▶ to display a list of devices (if this is the first time you have used Bluetooth®, a confirmation



dialog will be displayed; highlight [Yes] and press MENU/OK).

2 Choose a host.

 Press ▲ or ▼ to highlight a device and press MENU/OK (to view a description of the highlighted device, press >; to remove the device from the list, press $\overline{\mathbb{M}}$). If the desired device does not appear, press ADJ./MEMO to refresh the list.



3 Transfer images.

 Highlight [Send One] (send only the current image) or [Send All] (copy all images), and press MENU/OK. Enter a password if prompted (P.106). A progress indicator will be displayed.



Press MENU/OK when transfer is complete. 4

 A message will be displayed when transfer is complete. Press MENU/ OK to return to playback.



🍟 Transferring Multiple Selected Images ---

To transfer multiple selected images, select thumbnail view (CPP.38) before selecting [File Send]. After choosing a device as described in Step 2, highlight still images and press MENU/OK to select or deselect. Press DISP, when your selection is complete. A confirmation dialog will be displayed; highlight [Yes] and press MENU/OK to transfer the selected images.

Bluetooth®


Skipping Steps 1 and 2-----

Once you have selected a host and password, the options in Step 3 can be displayed by pressing and holding DISP during playback.



🖗 Interrupting Transfer -----

Pressing DISP., **D**, or the shutter release button interrupts transfer.

A Note-----

Unless [BIP] is selected for [Bluetooth Profile] (127 P.104) in the expanded settings menu (RP P.98), images are transferred at the size currently selected for [Image File Size] (CP P.103) in the expanded settings menu (CP P.98). If [BIP] is selected and the image file size is larger than the maximum supported by the device. images will be resized to the maximum supported by the device.

Transferring Images During Shooting (Bluetooth®)

The [Quick Send Mode] option (P.104) in the expanded settings menu (P.98) can be used to transfer photographs as they are taken. Movies can not be transferred.

Available Setting	Description
Off	Photos are not uploaded during shooting.
1Touch	Press MENU/OK when a photo is displayed after shooting to upload it to a Bluetooth® device.
2Touch	Press ▶ to display the most recent photo and press MENU/OK to begin upload. Not available when [On] is selected for [GPS Lock] (1277 P.99).
Auto	Photos are automatically uploaded at their original size as they are taken.

Caution-----

Photos are not uploaded in scene mode (P.52) or if [On] is selected for [Continuous Mode] (CPP.64) in the shooting menu.



- Before shooting, confirm that the host device is on.
- The [Auto Delete] option (
 P.104) in the expanded settings menu (
 P.98) can be used to automatically delete photos from the camera after transfer.



Interrupting Transfer/Terminating the Connection -----

To interrupt transfer, rotate the mode dial or press DISP.
. or the shutter release button. To interrupt transfer and terminate the connection, select playback mode or turn the camera off.



🍳 Choosing a Host------

Photos are automatically uploaded to the device last selected for [File Send] (CPP P.74) in playback mode. Use [File Send] to choose a different device.

One-Touch Transfer

When [1Touch] is selected for [Quick Send Mode], the MENU/OK button can be used when a photo is displayed after shooting to upload it to the device currently selected for [File Send]. The photo is not uploaded if the button is not pressed in the time selected for [LCD Confirmation Time] (CPP.84) in the setup menu (CPP.82); longer times are recommended

A Bluetooth[®] antenna icon is displayed while the camera is connected to the device; when transfer is complete, the camera will return to shooting mode without terminating the connection. The connection can be terminated by selecting playback mode or turning the camera off.





- Photos can not be uploaded if: a device has not been selected using [File Send] (CP P.74), [Off] is selected for [LCD Confirmation Time], [On] or [WB-BKT] is selected for [Auto Bracket], or the option selected for [Picture Ouality/Size] is larger than the size supported by the host when [BIP] is selected for [Bluetooth Profile] (P.104) in the expanded settings menu (P.98).
- Images are not resized during transfer, regardless of the option selected for [Image File Size] (R P.103) in the expanded settings menu (R P.98).

Two-Touch Transfer

To upload your most recent photo:

- 1 Press ▶.
 - A confirmation dialog will be displayed. (If this is the first time you have used two-touch transfer, you will be asked if you wish to choose a host; highlight [Yes] and press MENU/OK to display a list of Bluetooth[®] devices. Press ▲ or ▼ to highlight a device and press MENU/OK. If the desired device does not appear, press ADJ./MEMO to refresh the list.)

2 Press MENU/OK to begin transfer.

 Enter a password if prompted
 (127) P.106). A progress indicator is displayed during transfer. A Bluetooth® antenna icon is displayed while the camera is connected; when transfer is complete, the camera will return to shooting mode without terminating



the connection. The connection can be terminated by selecting playback mode or turning the camera off.

- Note-----
 - Two-touch transfer can not be used when [On] is selected for [GPS Lock] (127 P.99) in the expanded settings menu (127 P.98).
 - Unless [BIP] is selected for [Bluetooth Profile] (27 P.104) in the expanded settings menu (27 P.98), images are transferred at the size currently selected for [Image File Size] (127 P.103) in the expanded settings menu (127 P.98). If [BIP] is selected and the image file size is larger than the maximum supported by the device, images will be resized to the maximum supported by the device.

Auto Transfer

Select [Auto] to automatically upload photos as they are taken.



Note -----

- Photos can not be uploaded if a device has not been selected using [File Send] (127 P.74) or if the option selected for [Picture Quality/Size] is larger than the size supported by the host when [BIP] is selected for [Bluetooth Profile] (127 P.104) in the expanded settings menu (1997 P.98).
- Images are not resized during transfer, regardless of the option selected for [Image File Size] (12 P.103) in the expanded settings menu (12 P.98).

12 Wireless Networks

Pictures can be uploaded from the camera over a wireless Local Area Network (LAN). Before accessing a wireless network, select [W-LAN] for [Communication Mode] (127 P.102) in the expanded settings menu (127 P.98).

Connecting to a Wireless Network

Configure the host device (P.113).

 Use the supplied ST-10 software to configure the host ftp server. If desired, the supplied SR-10 software can be used to create an SR-10 ftp server on your computer exclusively for use by the G700SE (127 P.120).

2 Create a host list (127 P.123).

• Use ST-10 to create a host list containing connection information for the hosts you configured in Step 1.

3 Copy the host list to the camera (127 P.123).

 Connect the camera to the computer using the supplied USB cable and transfer the host list to internal memory, or use a memory card to copy the host list to the camera (P.125). Host lists can be edited on the camera after transfer (P.127).

4 Select [W-LAN] for [Communication Mode].

Transfer images.

 Use quick send (2 P.104) or the [File Send] option (2 P.74) in the playback menu (2 P.72) to transfer images to a host selected from a list displayed when transfer begins. If desired, the host can be selected in advance using the [Send To] option (2 P.102) in the expanded settings menu (2 P.98).

Caution-

- The camera's wireless transmitter has a maximum range of about 30 m (100 ft.): ensure that there are no obstacles between the two devices
- The supplied ST-10 software (available for Windows only) is required for connection to a wireless I AN.

Configuring the Host

Before images can be transferred to a host computer or other device over a wireless network, a host list containing the necessary connection information must be copied to the camera. The supplied ST-10 software is used to configure the host computer for transfer.



🔦 Note---

See P.151 for information on installing ST-10.

- 1 Start ST-10.
 - Start ST-10. In the Windows start menu, select [All Programs] > [Programs] > [DC Software] > [ST-10].

Click [All Detailed Setups]. 2

 The ST-10 window will be displayed. Click [All Detailed Setups].



113

Wireless Networks

3 Click the desired tab.

- In the [Detailed Setups for selections] dialog, choose from the following tabs:
 - Network: Enter an IP address.
 - Wireless LAN: Adjust wireless LAN settings.
 - FTP Send: Adjust ftp settings.
 - Dial-up/Mail Config./Address Book: Not required; the camera does not support dial-up connections or e-mail.

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🕭 Note-----

- If the computer is not currently configured for ftp, use the supplied SR-10 software to create an ftp server (127 P.120).
- · Advanced settings for some options can be accessed by clicking [Detail].

12

4 Click [Add].

 Click the [Add] button under [Setup Name] to display the [New Name for the Setup] dialog.

5 Enter a name.

• Enter a name for the new configuration and click [OK].

6 Adjust settings.

• Adjust settings as described on P.116.

The configuration currently selected in the [Setup Name] list can be renamed by clicking [Rename] or deleted by clicking [Delete]. Click [Apply] to save changes.

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7 Adjust settings in the remaining tabs.

• Repeat Steps 3–6 to adjust settings in the remaining tabs.

8 Save settings and exit.

• Click [OK] to save changes and return to the ST-10 window, and then click [OK] to exit ST-10.

Caution-----

Consult the system administrator for information on network settings.

Detailed Setups Tab Settings

[Network] tab

Item Name	Description
Host Setup Host Name Camera Password	These settings are not required when using this camera.
Automatically retrieves its IP address	Select this to retrieve an IP address automatically for the camera.
Use the following IP address IP address Subnet Mask Default Gateway	Select this to use a fixed IP address, and then enter the information below. [IP address] Fixed IP address for the camera [Subnet Mask] Usually enter 255.255.255.0. [Default Gateway] IP address of an Internet-connected computer
Automatically retrieves the address from the DNS server	Select this to retrieve the address automatically from the DNS server.
Use the following DNS server addresses Primary DNS Server Secondary DNS Server	Select this to use a fixed DNS server address, and then enter the information below. [Primary DNS Server] Primary DNS server address of your Internet service provider [Secondary DNS Server] Secondary DNS server address of your Internet service provider



Wireless LAN settings do not require adjustment when the simple connection option is used (127) P.128).

Item Name	Description
Connection Method	Select from the following connection methods.
	[Infrastructure]
	Connection method for communication through
	routers and access points
	[AdHoc]
	Connection method for communication between slave devices
ESS-ID	A wireless LAN enables communication between a
	master device and a slave device having the same ESS-ID. Enter the same ESS-ID as the master device.
Communication Channel	When several access points are in use, a channel is
	set to each access point. Select the channel of the
	access point.
	[Auto]
	Select this if [Connection Method] is set to
	[Infrastructure] and there is only one access point.
	[1-13]
	If [Connection Method] is set to [Infrastructure] and there are several access points or if [Connection
	Method] is set to [AdHoc], select the channel you
	want to use.
Cryptography	Select from the following encryption methods.
	[None]
	No encryption is used.
	[WEP]
	This can be selected when [Connection Method] is
	set to either [Infrastructure] or [AdHoc].
	[AES]
	This can be selected only when [Connection Method] is set to [Infrastructure].
	[TKIP]
	This can be selected only when [Connection
	Method] is set to [Infrastructure].

Item Name	Description
Network Key	Enter the security key. Select a key type from [String] and [Hex] and enter an encryption key in the box. [String] If [WEP] is selected for [Cryptography], enter an encryption key of 5 or 13 characters. Entering a 5- character string uses 40-bit encryption, and entering a 13-character string uses 128-bit encryption. If [AES] or [TKIP] is selected, enter an encryption key from 8 to 63 characters. [Hex] If [WEP] is selected for [Cryptography], enter a ten-character (40 bit) or 26-character (128 bit) key. If [AES] or [TKIP] is selected, enter a 64-
Authentication	character key. [Open System] This can be selected only when [Cryptography] is set to [None] or [WEP]. This authentication does not use WEP keys. [Shared Key] This can be selected only when [Cryptography] is set to [None] or [WEP]. This authentication compares the WEP keys of different devices. [WPA-PSK] This can be selected only when [Cryptography] is set to [AES] or [TKIP]. [WPA2-PSK] This can be selected only when [Cryptography] is set to [AES] or [TKIP].

[FTP Send] tab

Item Name	Description
Server Name	Enter the name or IP address of the ftp server to which images will be uploaded. If you are using the SR-10 server (1377), P.120), enter the IP address.
User Name and Password	Enter a user name and password for the ftp server to which images will be uploaded. Not required if you are using the SR-10 server (1277 P.120).
Specify Folder	Choose the destination folder for images uploaded to the ftp server.

Item Name	Description
Does not send file whose name already exists	If this option is selected, images will not be uploaded if an image with the same filename already exists in the destination folder (SR-10 servers (CP P.120) ignore this setting; during upload, images are renamed as necessary to avoid duplication as described on P.122). If this option is not selected, images in the destination folder will be overwritten by images with the same filename.
PASV	Select this option to connect to the ftp server in PASV mode. Choose this option when you are unable to connect to an ftp server that is behind a firewall.



🕭 Note--

The camera does not support dial-up connections or e-mail, and there is consequently no need to adjust the settings in the [Dial-up], [Mail Config.], and [Address Book] tab.

Configuring a G700SE-only FTP Server

If the computer is not currently configured for use as an ftp server. the supplied SR-10 software can be used to create an SR-10 ftp server exclusively for use by this camera.



Caution------

SR-10 ftp servers created using the supplied SR-10 software can be used only for upload from this camera. Other ftp clients can not connect, and images can not be downloaded to the camera



See P.151 for information on installing SR-10.

Start SR-10. 1

> In the Windows start menu, select [All Programs] > [Programs] > [DC Software] > [SR-10]. The SR-10 window will be displayed.

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2 Adjust settings.



① Specify: Choose a destination folder. Choose [Server] to upload images to the folder listed in the [Folder name] text box, [Camera] to upload images to the folder selected in the [FTP Send] tab of the host list, or [Server+Camera] to upload images to a sub-folder created under the folder listed in the [Folder name] text box using the name selected in the [FTP Send] tab of the host list (see below).

Folder named in [Folder Name] text box

- (2) Folder name: Enter the name of the destination folder or click the folder icon to navigate to the desired folder. Note that the folder is not created automatically; if necessary, create a folder with the desired name.
- ③ Log file name: To create a transmission log, enter a name and path for the log file.
- ④ PASV Mode Port Number: Enter the port number used for connection to the ftp server when [PASV] is selected in the ST-10 [FTP Send] tab.

3 Click [Apply].

Click [Apply] to save changes.

4 Click [Quit].

· Click [Quit] to exit SR-10.

Uploading Images to the SR-10 Server

To upload images to the SR-10 server, transfer the host list to the camera and then follow the steps below.

- 1 Start SR-10.
 - In the Windows start menu, select [All Programs] > [Programs] > [DC Software] > [SR-10].

2 Click [Start].

 The SR-10 window will be displayed; click [Start] to start the ftp server. The computer is now ready to receive images from the camera. To hide the SR-10 window during upload, click [Hide]. SR-10 can be displayed again by clicking the SR-10 icon in the taskbar.

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3 Upload images.

 Images are uploaded to the selected folder (PP P.121). See P.105 and 112 for more information. Transfer status is displayed in the SR-10 [Connections] list.

🕭 Note-----

If the destination folder contains an image with the same name as an image uploaded from the camera, the image in the destination folder will be renamed by adding a suffix assigned in ascending order from -001 to -999 to the end of the file name. If an image with the same name and suffix already exists in the destination folder, it will be overwritten.

Creating a Host List and Transferring It to the Camera

Once hosts have been configured using ST-10, you can create a host list for transfer to the camera via USB.



- 1 Click [Add] or select an existing host.
 - To add a new host, click [Add]. To edit settings for an existing host, choose it from the pull-down menu.



2 Adjust settings.

- ① Connection Method: Select [Wireless LAN] and choose wireless LAN settings from the pull-down menu. The settings selected in the [Wireless LAN] tab (I P.117) will be displayed.
- ② Network Setup: Choose a network from the pull-down menu. The settings selected in the [Network] tab (127) P.116) will be displayed.
- ③ Send Method: Select [Send via FTP]. The settings selected in the [FTP Send] tab (2 P.118) will be displayed.

3 Add host configurations.

 Repeat Steps 1 and 2 to add or edit other host configurations. The current configuration can be renamed by clicking [Rename] or deleted by clicking [Delete].

4 Click [Apply].

• Click [Apply] to save the host list.

5 Connect the camera to the computer.

• Turn the camera off and connect it to the computer using the supplied USB cable. The camera will turn on automatically.

6 Click [Transfer to Camera].

 Enter the camera password when prompted and click [OK] to begin transfer. If you wish to update a host list already present on the camera, click [Yes] when prompted. If you did not click [Apply] in Step 4, you will also be prompted to save the host list; click [OK].

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7 Click [OK] when transfer is complete.

• A message will be displayed when transfer is complete; click [OK].

8 Exit ST-10.

• Click [OK] in the ST-10 window to exit ST-10. Remove the camera from the system and disconnect the USB cable as described on P.156.

9 Select [Import Communication Setting].

 After turning the camera on, highlight [Import Communication Setting] in the expanded settings menu (127 P.98) and press ▶. A confirmation dialog will be displayed.

Expanded Settings	3/3
Beating Data Imprint	0ff
Range Finder Mode	Model
Communication Made	Bluetooth
HE linport Communication	Setting D
Send Te	100
Ex Send Status	Dn
Simple Connection	OFT
Bluetosth Pass Key	
Blaetoeth Search Count	
Hartorth Auto Com	
Mis Finish	 Select

10 Select [Yes].

 Press ▶ to highlight [Yes] and press MENU/OK to copy the host list to internal memory and return to the expanded settings menu. If a host list is already present, a dialog will be displayed: select [Yes] to overwrite the existing list or [No] to exit to the expanded settings menu without updating the list.





- ST-10 saves network settings and the host list automatically when you exit the application. The most recently selected settings are displayed the next time you start ST-10.
- The password entered in Step 6 is required when opening the host list in ST-10.
- The ST-10 software supplied with this camera can not be used to open or transfer host lists created using ST-10 software supplied with earlier cameras.
 Recreate the host list using the version of ST-10 supplied with this camera.

Reading a Host List from a Memory Card

Host lists created with a computer can be copied to a memory card inserted in a card reader or card slot and then loaded into the camera's internal memory.



1

Use a memory card that has been formatted in the camera.

- Click [Save in File].
 - After creating a host list as described in Steps 1–4 on P.123, click [Save in File] to display the [Save As] dialog.



2 Choose a destination.

 Navigate to the desired folder on the computer hard drive and enter a file name (note that although you can use any name, you will need to rename the file "SYSTEM.PRM" when copying it to the memory card in Step 5). Click [Save]. You will be prompted to enter a password.

3 Enter a password and click [OK].

• The host list will be saved to the selected destination and a message will be displayed.

S Note-----

Host lists stored on the computer hard drive can be opened for editing using the ST-10 [Open file] option. Enter the password you used in Step 3 when prompted. A warning will be displayed if the password is incorrect.

4 Exit ST-10.

- Click [OK] in the ST-10 window to exit ST-10.
- 5 Copy the host list to the memory card.
 - Insert the memory card in a card reader or card slot and copy the host list to the "SYSTEM" folder on the memory card. Rename the file "SYSTEM.PRM".



6 Insert the memory card in the camera.

7 Select [Import Communication Setting].

• After turning the camera on, select [Import Communication Setting] in the expanded settings menu as described in Step 9 on P.124.

Caution-----

Only one host list at a time can be read from a memory card.

🕏 Note-----

The host list can also be transferred to the camera by direct USB connection (CP P.123).

Viewing and Editing the Host List

The camera can be used to view and edit the host list.

Select [Send To]. 1

 After turning the camera on, highlight [Send To] in the expanded settings menu (PP P.98) and press to display the host list



View settings. 2

 Press ▲ or ▼ to highlight items and press ▶ to view. Press DISP. to return to the previous display.

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Host list

Category list

Settings list

3 Edit settings.

 Highlight an entry in the settings list and press . Edit the setting using the on-screen keyboard (P.91) and press MENU/OK to save changes and return to the settings list. Repeat Steps 2–3 to select and edit additional settings.

Return to the expanded settings menu. 4

• Press MENU/OK to return to the expanded settings menu.



Caution-

Check the [Network Key] after editing [Crypt/Authentication] (CPP.118). Note that if [AES/WPA-PSK], [AES/WPA2-PSK], [TKIP/WPA-PSK], or [TKIP/WPA2-PSK] was selected for [Cryptography] or [Authentication] in ST-10 (127 P.117), changing the [Connection Method] to [AdHoc] automatically changes [Cryptography] to [None] and [Authentication] to [Open System].

Simple Connections for Wireless LANs

Using the [Simple Connection] option in the expanded settings menu (27 P.98), you can connect to a wireless LAN without adjusting settings in the ST-10 [Wireless LAN] tab (27 P.117).

-Expa	inded Settings	2/3
日 11 日	Heading Data Imprint Range Finder Mode Communication Mode Import Communication Set	011 Nodel Bluetooth
Ex	Send Te Send Status	Dn
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	Bluetoeth Pass Key	
	Bluetoeth Search Count	
	Restorth Auto Com	
	Mis Finish E	 Select

Available Setting	Description
Off	Simple connection off; the camera connects using the wireless LAN settings for the host selected for [Send To] (27).
WPS Button	If the wireless LAN access point is equipped with a WPS button, you can connect by simply pressing the button.
WPS PIN	If the wireless LAN access point uses a WPS PIN code, you can connect by entering the PIN on the camera.
Scan	The camera automatically searches for and selects a wireless LAN access point and prompts you to enter a network key and other information as required. The camera stores this information even when turned off and supplies it automatically the next time you connect to the network.
Connection Inf	The camera displays information for the wireless LAN access point to which you are currently connected.

Connecting Using [WPS Button]

Select [WPS Button] for [Simple Connection].

Highlight [Simple Connection] in the expanded settings menu
 (127 P.98) and press ▶, and then press ▲ or ▼ to highlight [WPS Button] and press ▶. A message will be displayed while the camera waits for a signal from the wireless LAN access point.

2 Press the WPS button.

 Press the WPS button on the wireless LAN access point (see the documentation provided with the device for details). The camera will display connection information to show that the connection has been successfully established; press MENU/OK to return to the expanded settings menu. If the connection fails or if no connection is established within two minutes, an error will be displayed and the camera will exit to the expanded settings menu.

Connecting Using [WPS PIN]

Select [WPS PIN] for [Simple Connection].

Highlight [Simple Connection] in the expanded settings menu
 (127 P.98) and press ▶, and then press ▲ or ▼ to highlight [WPS PIN] and press ▶.

2 Enter the PIN.

 Enter an eight-digit PIN using the onscreen keyboard (P.91) and press MENU/OK. A message will be displayed while the camera connects. Connection information is displayed if the attempt is successful; press MENU/OK to return to the expanded settings menu. If the



connection fails, an error will be displayed and the camera will exit to the expanded settings menu.



Note--

The camera stores the PIN even when turned off.

Connecting Using [Scan]

Select [Scan] for [Simple Connection].

Highlight [Simple Connection] in the expanded settings menu
 (12) P.98) and press ▶, and then press ▲ or ▼ to highlight [Scan] and press ▶. A message will be displayed while the camera searches for wireless LAN access points; when the search is complete, a list of the available access points will be displayed.

2 Select an access point.

- Press ▲ or ▼ to highlight an access point and press MENU/OK. The camera will attempt to connect using the wireless LAN settings last entered for [Scan]. If the attempt is successful, connection information will be displayed; press MENU/OK to return to the expanded settings menu.
- If no previous settings exist or if the settings are incorrect, a message will be displayed prompting you to enter wireless LAN information manually; highlight [OK] and press MENU/OK to display wireless LAN settings (127 P.117). Press ▲ or ▼ to highlight items and press ▶ to select. Edit settings, using the on-screen keyboard where required, and press MENU/OK to connect when settings are complete. Connection information will be displayed if the camera is able to connect; press MENU/OK to return to the expanded settings menu.

Transferring Images During Playback (Wireless LANs)

The [File Send] option in the playback menu (12) P.72) can be used to upload images to a computer during playback.



Caution---

Before uploading images over a wireless LAN, use a computer to create a host list and transfer it to the camera (RPP.123). Images can not be uploaded if a host list has not been transferred to the camera or if the settings in the list are incorrect.

1 Select [File Send].

 If you intend to copy only one picture, display the picture full frame before proceeding. Highlight [File Send] in the playback menu (1) P.72) and press . If [On] is selected for [Send Status] (FP P.102), the host list will be displayed. If [Off] is selected, proceed to Step 3.



2 Choose a host.

Press A or T to highlight a device and press MENU/OK.

2 Transfer images.

• Highlight [Send One] (send only the current image) or [Send All] (copy all images), and press MENU/OK. A progress indicator will be displayed.



Press MENU/OK when transfer is complete. Δ

 A message will be displayed when transfer is complete. Press MENU/ OK to return to playback.



Transferrina Multiple Selected Images ------

To transfer multiple selected images, select thumbnail view (FP P.38) before selecting [File Send]. After choosing a device as described in Step 2, highlight still images and press MENU/OK to select or deselect. Press DISP, when your selection is complete. A confirmation dialog will be displayed; highlight [Yes] and press MENU/OK to transfer the selected images.



🍟 Skipping Steps 1 and 2-----Once you have selected a host and password, the options in Step 3 can be

displayed by pressing and holding DISP. during playback.



🎧 Interrupting Transfer -----Pressing DISP., **D**, or the shutter release button interrupts transfer.



Images are transferred at the size currently selected for [Image File Size] (CPP.103) in the expanded settings menu (CPP.98).

Transferring Images During Shooting (Wireless LANs)

The [Quick Send Mode] option in the expanded settings menu (127 P.98) can be used to transfer photographs as they are taken.

Available Setting	Description	
Off	Photos are not uploaded during shooting.	
1Touch	Press MENU/OK when a photo is displayed after shooting to begin upload. Movies can not be transferred.	
2Touch	Press ► to display the most recent photograph or movie and press MENU/OK to begin upload. Not available when [On] is selected for [GPS Lock] (1277 P.99).	
Auto	Photos are automatically uploaded at their original size as they are taken. Photos are not converted to the size selected for [Image File Size] (127 P.103) in the expanded settings menu (127 P.98).	

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Caution--

 Before uploading images over a wireless LAN, use a computer to create a host list and transfer it to the camera (PP P.123). Images can not be uploaded if a host list has not been transferred to the camera or if the settings in the list are incorrect.

- Photos are not uploaded in scene mode (PP P.52) or if [On] is selected for [Continuous Mode] (CPP.64) in the shooting menu.
- During transfer, the flash does not charge and optical zoom is disabled.



Note -----

- · Before shooting, confirm that the host device is on.
- The [Auto Delete] option (
 P.104) in the expanded settings menu (
 P.98) can be used to automatically delete photos from the camera after transfer.



`@` Interrupting Transfer/Terminating the Connection ------To interrupt transfer, rotate the mode dial or press DISP., **D**, or the shutter release button. To interrupt transfer and terminate the connection, select playback mode or turn the camera off.



Choosing a Host-----

Photos are automatically uploaded to the device last selected for [File Send] in plavback mode (P74). Use [File Send] to choose a different device.

One-Touch Transfer

When [1Touch] is selected for [Quick Send Mode], the MENU/OK button can be used when a photo is displayed after shooting to upload it to the host currently selected for [File Send] (if no host is selected, the photo will be uploaded to the first host in the host list). The photo is not uploaded if the button is not pressed in the time selected for [LCD Confirmation Time] (P.84) in the setup menu (P.82); longer times are recommended.

A wireless LAN antenna icon is displayed while the camera is connected; when transfer is complete, the camera will return to shooting mode without terminating the connection. The connection can be terminated by selecting playback mode or turning the camera off.



- Note
 - Photos can not be uploaded if: [Off] is selected for [I CD Confirmation Time], or [On] or [WB-BKT] is selected for [Auto Bracket].
 - Images are not resized during transfer, regardless of the option selected for [Image File Size] (127 P.103) in the expanded settings menu (127 P.98).

Two-Touch Transfer

To upload your most recent photo:

Press . 1

• A confirmation dialog will be displayed. (If this is the first time you have used two-touch transfer and [On] is selected for [Send Status] as described on P.102, you will be asked if you wish to choose a host: highlight [Yes] and press MENU/OK to display the host list. Press or $\mathbf{\nabla}$ to highlight a host and press MENU/OK. If the desired host does not appear, press ADJ./MEMO to refresh the list. If [Off] is selected for [Send Status], the image will be uploaded to the host selected for [Send To].)

2 Press MENU/OK to begin transfer.

 A progress indicator is displayed during transfer. A wireless LAN antenna icon is displayed while the camera is connected: when transfer is complete, the camera will return to shooting mode without terminating the connection. The connection can be



terminated by selecting playback mode or turning the camera off.

- Note ---
 - Two-touch transfer can not be used when [On] is selected for [GPS Lock] (CPP.99) in the expanded settings menu (CPP.98).
 - Unless [BIP] is selected for [Bluetooth Profile] (
 P.104) in the expanded settings menu (CPP P.98), images are transferred at the size currently selected for [Image File Size] (1 P.103) in the expanded settings menu (1 P.98).



🏹 Choosina a Host-----

Photos are automatically uploaded to the device last selected for [File Send] in playback mode (
P.74). Use [File Send] or the [Send To] option (
P.102) in the expanded settings menu (1277 P.98) to choose a different device.

Auto Transfer

Select [Auto] to automatically upload photos as they are taken.



[Images are not resized during transfer, regardless of the option selected for [Image File Size] (127 P.103) in the expanded settings menu (127 P.98).

13 GPS

When an optional GP-1 GPS unit or Bluetooth®-equipped GPS unit is connected, the camera can record the GPS data (including latitude, longitude, and compass heading) supplied by the device.



- · GPS data are not recorded with photos taken in text mode.
- · Local geographic conditions may prevent or delay the acquisition of GPS data.

Connecting to a GPS Unit

The GP-1 GPS Unit (Available Separately)

There is no need for complicated adjustments to camera settings when using the GP-1. To connect the GP-1, turn the camera off and use the supplied Allen key to remove the side cover from the camera. Connect the GP-1 with the status indicator at the rear of the camera and tighten the locking nut.





- The GP-1 is not equipped with a battery or on/off switch. It turns on to supply GPS data when the camera is turned on and turns off when the camera is turned off.
- Turn the camera off before connecting or disconnecting the GP-1.

Bluetooth®-equipped GPS Units

Bluetooth®-equipped GPS units supply GPS data to the camera wirelessly.

1 Select [Bluetooth Serial].

 Highlight [Bluetooth Serial] in the expanded settings menu (127 P.98) and press ▶ (if this is the first time you have used Bluetooth®, the dialog shown at right will be displayed; press ◀ or ▶ to highlight [Yes] and press MENU/OK to scan for available Bluetooth® devices).

2 Highlight a device.

Press ▲ or ▼ to highlight a device (to view a description of the device, press ▶; to remove the device from the list, press ⑪). If the desired device does not appear, press ADJ./MEMO to refresh the list.

3 Press MENU/OK.

 Press MENU/OK. The camera will show connection status. If prompted for a password, press MENU/OK and enter a password as described on P.106. When a connection is established, GPS data, a Bluetooth[®] antenna icon, and a GPS icon will appear in the shooting display.



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[Send To] lists the most recent device first.



🏟 Terminating the Connection -----

Turning the camera off terminates the connection.



° Connecting Automatically------

- Selecting [On] for [Bluetooth Auto Conn] (
 P.103) in the expanded settings menu (R P.98) allows the camera to connect automatically to the most recently-used Bluetooth®- equipped GPS unit. If the camera is turned off with this option selected, when next turned on it will automatically scan for and attempt to connect to the most recently used Bluetooth®- equipped GPS unit. The camera will not connect if the unit is out of range or otherwise inaccessible (**L**)
- [Bluetooth Auto Conn] is for use only with GPS devices.
- If prompted to supply a password, press MENU/OK and enter the password for the Bluetooth^{\circ} device (\mathcal{L} P106).
- To prevent the camera from connecting automatically, select [Off] for [Bluetooth Auto Conn] before turning the camera off.

The GPS Data Display

During shooting, GPS data are displayed as shown at right.



To view more data, press DISP.





ີ່ Accuracy -----

The accuracy of the GPS data is displayed as shown below:

Display	Contents
no fix	The GPS unit cannot receive data.
2d	The NMEA-0183 format GSA positioning mode is 2d.
3d	The NMEA-0183 format GSA positioning mode is 3d.
Diff	The NMEA-0183 format GGA quality is DGPS.

_	2
	L
	L
<u> </u>	'

Caution-

Some time may be required to update GPS data. If the number of satellites drops below three. the GPS icon changes to show that GPS data can not be acquired.





🙆 Retention of GPS Data ------

If the camera is unable to update GPS data, it will store and use the most recently acquired data for up to ten minutes. Note that these data are deleted if the IGPS Datum] option (PP P.99) in the expanded settings menu (PP P.98) is used to select a different geodetic system.

Recording GPS Data

GPS data can be recorded with each photograph and movie taken (note that GPS data are not recorded with photographs taken in text mode).

- With the GPS function enabled, turn the Mode Dial to 1 O/CALS.
- 2 Confirm that the camera is receiving GPS data.
 - Confirm that the GPS icon and GPS data are displayed. Detailed information can be viewed by pressing DISP.



3 Shoot photos or movies.

- GPS data will be recorded with each photograph or movie taken according to the options currently selected for [GPS Data Imprint] (@P.101), [UTC Data Imprint] (@P.101), and [Heading Data Imprint] (
 P.101) in the expanded settings menu (
 P.98).
- Caution---

If no GPS data are available when the shutter release button is pressed halfway, the message "NO GPS FIX" will be displayed and no GPS data will be recorded when the picture is taken.

Viewing GPS Data

GPS data recorded with pictures can be viewed during playback by pressing the DISP. button until GPS data are displayed.

1000-0001	0001/sees	►	SD	EE 4:8 F
959 . 2'NV	NWimag			
E: 199° N:085°				
رون کی 12	9			
2010/01/0	1 00:00	F8,5	1/1000	



• Latitude and longitude are displayed in orange if current GPS data were unavailable when the picture was taken (1297 P.136).

- GPS data are included with images transferred to a computer (127 P.105, 112).
- GPS data are displayed in the format selected for [GPS Disp Mode] (CPP P.99) in the expanded settings menu (CPP P.98).



The GPS Log -----

The camera logs GPS data to the memory card at the interval selected for [GPS Track Time] (127 P.100) in the expanded settings menu (127 P.98; no log is created if [Off] is selected). Log files can be viewed in a text editor or word processing software. Entries consist of the longitude, latitude, atitude, track number, and the date and time, separated by commas; for example, an entry recording a position of 35° 40' 1" N 139° 45' 47" E at an altitude of 3.5 m at 07:58:14 on October 8, 2010 (UTC) would take the following form:

139.82972,35.66694,3.5,0,08-10-2010 07:58:14

Longitude	Alt	itude	Date	Time
L				

A track number of "1" indicates data logged at the start of GPS recording, "0" data logged during GPS recording.

The BR-1 Barcode Reader

When connected to the camera, the BR-1 barcode reader (available separately) can be used to read linear barcodes for use in camera memos (P.57). See the documentation provided with the BR-1 for more information.



- Caution----- Do not transfer or sell the BR-1 to a third party.
 - The BR-1 is for commercial use only.
 - Be sure that you have read and understood the documentation and all safety warnings provided with the BR-1 and related equipment.

To connect the BR-1, turn the camera off and use the supplied Allen key to remove the side cover from the camera. Connect the BR-1 with the read button at the rear of the camera and tighten the locking nut.



Barcode Reader

When the camera is turned on, it will detect the BR-1 and an icon will be displayed. Barcodes can be read by pressing the BR-1 read button when the camera memo dialog is displayed (B "Software User Guide" P.36).



- 🕭 Note-
 - The BR-1 is not equipped with a battery or on/off switch. It turns on when the camera is turned on and turns off when the camera is turned off.
 - Turn the camera off before connecting or disconnecting the BR-1.
 - The camera can not be used to read barcodes while the BR-1 is connected. Disconnect the BR-1 to read matrix barcodes.
 - The BR-1 can not be used to read password codes when [Barcode] is selected for [Choose/Change Password] (27 P.90) in the setup menu (27 P.82).
15 Direct Printing

About the 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.



Caution-----You cannot print AVI files (movies) with this function.

Note ------

- This camera uses PictBridge, an industry standard for Direct Printing.
- Your printer must be compatible with 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.

- Make sure that the camera power is off. 1
- 2 Open the terminal cover.
 - Slide the knob in the direction shown and open the terminal cover.



3

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

- · Turn on the printer if it is not already on.
- Your camera turns on automatically.





Note-----To disconnect the camera from the printer, check that the camera is turned off after printing is finished, and disconnect the USB cable.

- Caution-----
 - Do not force the LISB cable into the terminal
 - Do not apply excessive force with the USB cable connected.
 - When using the USB cable, do not move the camera with the USB cable.
 - To prevent moisture or dust from entering the camera, close the terminal cover securely after disconnecting the USB cable.

Printing Still Images

You can print still images from the camera with a PictBridgecompatible printer. If a memory card is inserted, the pictures will be printed from the memory card; otherwise pictures will be printed from internal memory.



Caution-----

Do not disconnect the USB cable during printing.



- Note ------
 - If a [Printer error.] message appears during image transfer, check the printer status and take the appropriate action.
 - If a computer connection message appears even though the camera is connected to the printer, reconnect the camera and press the ADJ./MEMO button within two seconds.

Before printing, connect the camera to the printer. The message [Connecting...] shown at right will be displayed if the printer is ready; press the ADJ./MEMO button to view the Direct Print playback display.



Printing One or All Still Images

- Select an image for printing and press the ADJ./MEMO 1 button.
- 2 Select [1 File] or [All Files] and press the ADJ./MEMO button.
 - The Direct Print menu appears.

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3 Select an item and press the button to view the options available.

• When [Connecting...] is displayed, the connection to the printer is not vet established. When a connection is established, [Connecting...] disappears and [Direct Print] appears. Proceed with this step after the connection is established.

irest Print	1/1
Paper Size	D
Printer Select	
Paper Type	
Printer Select	
Prot Fil: 1ing	
Default Set Default	
Intel Cancel	TOK Start Print

• The following items can be selected. Each item is available only when supported by the printer connected to the camera.

Item Name	Description
Printing Quantity	Sets the print quantity.
Paper Size	Sets the paper size.
Paper Type	Sets the paper type.
Layout	Sets the number of images printed on a sheet of paper. The number of images that can be laid out on a sheet of paper varies depending on the connected printer.
Report Print (*)	Prints on forms.
Memo Print ^(*)	Choose whether reports will include camera memo descriptions (CPP P.148). Depending on the layout selected with [Report Print], the camera memo may not be printed. In this case, delete some of the information in the camera memo.
Print Size	Sets the print image size.
Date Print	Selects whether to print the date (shooting date). The date format can be set using the date/time option in the setup menu. If the picture was taken using [Date Imprint] (27 P.65), only the imprinted date will be printed.
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.
Print Quality	Sets the print quality.
Toner Saving ^(*)	Selects whether to conserve toner by using less ink during printing.
1-Side/2-Sides ^(*)	Selects whether to print on both sides of the paper. During duplex printing, one copy is printed for each still image. Only one copy is printed even if you selected more than one copy to print in Step 3 on P.147.

(*) Compatible Ricoh printers only.

Direct Printing

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Repeat Steps 3 and 4 to change other settings as required. Press the MENU/OK button. The selected still images are sent to the printer and the [Sending...] screen appears.

The display returns to the Direct Print menu.

- Pressing the DISP. button cancels the operation.
- When the images have been sent to the printer, the display returns to the Direct Print playback mode screen and printing starts.

Printing Several Still Images

Press the 💽 (Thumbnail view) button.

next time the camera is connected to the

To use the settings last set the next time the

- Photos will be displayed in multi-frame playback.
- 2 Select an image and press the MENU/OK button.
- 3 Press the **AV** buttons to set the number of copies to print.
 - Press the A button to increase the number of copies, or press the $\mathbf{\nabla}$ button to decrease the number of copies.
 - Repeat Steps 2 and 3 to select additional images.
- Δ Press the MENU/OK button.
 - The Direct Print menu appears.

5 Select an item and press the button to view the options available.

· See Steps 3 and following on P.146.







5

🕭 Note-

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

Printing Reports

Select [Report Print] on the Direct Print menu.

You can only select [Report Print] when the camera is connected to a Ricoh printer that supports PictBridge after setting [Paper Size] to [A4] on the menu.

The layout that can be selected depends on the connected printer. For more details, see the documentation that came with the printer.

Available Layouts

1 Frame W/Rule	2 Frames W/Rule	3 Frames W/Rule	4 Frames W/Rule
1 Frame W/O Rule	2 Frames W/O Rule	3 Frames W/O Rule	4 Frames W/O Rule
Const. Photo 1	W/Remark Section	Additional Report	
		1-10	

Examples of Printed Reports



Memos will only be included in the report if [5] is selected for [Number of Items] in the List Editor (1277 "Software User Guide" P.24).

Direct Printing

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Note-

16 Copying Pictures to a Computer via USB

The screen images shown here may differ from the images displayed on your computer depending on your computer OS.

For Windows

You can copy pictures to your computer with or without DL-10 software, which can be installed from the supplied CD.

System Requirements for Using the Supplied CD-ROM

The following environments are necessary for using the supplied CD-ROM. Please check your computer, or the computer's user manual.

Windows 2000 Professional Service Pack 4
Windows XP Home Edition Service Pack 3/Professional Service Pack 3
Windows Vista Service Pack 2
Windows 7 (32- and 64-bit)
Pentium [®] IV: 1.6 GHz or faster
Pentium [®] M: 1.4 GHz or faster
Core™ 2 Duo: 1.5 GHz or faster
Windows 2000/Windows XP: 512 MB or more
Windows Vista/Windows 7: 1 GB or more
300 MB or more
1024×768 pixels or greater
65,000 colors or greater
A CD-ROM drive compatible with the above-mentioned computer
A USB port compatible with the above-mentioned computer

- 🚺 Caution-
 - The CD-ROM supports Japanese, English, French and German. Operations are not guaranteed on operating systems with other languages.
 - 64-bit Windows Vista is not supported.
 - If your computer has an upgraded OS, the USB function may not work normally, so it cannot be supported.
 - The provided software may not operate properly if changes are made to the operating system, such as with patches and service package releases.
 - The camera does not support connection to a USB port added by using an extension function (PCI bus or other).
 - 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 recommended.
 - MediaBrowser is not supported under Windows 2000.

CD-ROM Setup

Once you insert the supplied CD-ROM in the CD-ROM drive, the installer screen appears automatically.

Windows 2000/Windows XP

The installer screen appears automatically.

Windows Vista/Windows 7

 If an Autorun dialog is displayed, select [Run Autorun.exe]. The installer will start automatically.



Installing Software

Software	Description
DL-10	Downloads images collectively to your computer.
List Editor	Create memo lists.
ME1	View and manage photographs to which memos have been appended, edit memos, and print memos with photographs.
ST-10	Adjust settings for connection to wireless LANs.
SR-10	Create an ftp server on your computer for the exclusive use of this camera.
MediaBrowser	Display, manage, and edit existing images. Not supported under Windows 2000.
USB Driver	Used to connect an earlier model Ricoh camera to a computer running Windows 98/Windows 98 SE/ Windows Me/Windows 2000. Not used with this camera.
WIA Driver	Used to connect an earlier model Ricoh camera to a computer running Windows XP/Windows Vista/ Windows 7. Not used with this camera.

Click [Installing the software] to install the following software.



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

• The names for DC Software items differ from the names for Caplio Software items provided with previous models as shown below.

Caplio Software	DC Software
RICOH Gate La	DL-10
Caplio Viewer	DU-10
Caplio Server	SR-10
Caplio Setting	ST-10

If Caplio Software from a CD-ROM supplied with a previous model is already installed on your computer, a message asking you to uninstall the Caplio Software before installing DC Software will appear when you try to install the new software.

- · Administrator privileges are required for installation.
- DL-10 is not network-compatible. Use as a stand-alone application.

1 Click [Installing the software]. Windows 2000/Windows XP

After a while, the [Choose Setup Language] screen appears.

Windows Vista/Windows 7

 If a [User Account Control] dialog is displayed, select [Yes] (Windows 7) or [Allow] (Windows Vista). After a short pause, the [Choose Setup Language] dialog will be displayed.

2 Select a language and follow the on-screen instructions to complete installation.

- The MediaBrowser installer will start. To install MediaBrowser, accept the license agreement and follow the on-screen instructions.
- **3** When a message appears asking you to restart your computer, select [Yes, I want to restart my computer now.] and then click [Finish].
 - Your computer will restart automatically.
 - After your computer restarts, a Windows security warning message appears.
- 4 Click [Unblock] for DL-10.

Installing EC1

EC1 can be used to determine whether photographs shot with [On] selected for [Edit Detection] (2 P.66) in the shooting menu have been altered since they were taken. See the "Software Users Guide" for details.

1 Click [Installing EC1].

• Depending on your user environment, an installation message for "Visual C++ Runtime Library (×86)" or ".NET Framework 2.0" may be displayed. If this message appears, follow the instructions on the message to install the software. If a message instructing you to restart your computer appears after installation, please restart your computer.

2 Follow the on-screen instructions and install EC1.

Caution---

If FC1 is already installed on your computer, you cannot reinstall it. If you try to reinstall it, a message asking if you want to change or delete FC1 is displayed. To exit without changing or deleting EC1, click [Cancel].

Installing Other Software

Click [Browse CD-ROM Content] to install the following software:

Software	Description
Adobe Reader	Required to view manuals in pdf format.
EX1	Rename files according to memo descriptions or export memos as CSV, XML, or text. EX1 comes in server and client versions.



Caution-----

- · Do not install the software when the camera is connected to your computer with a USB cable
- · Administrator privileges are required for installation.
- To install MediaBrowser without installing other applications, double-click the setup.exe icon in the "MediaBrowser" folder.

Installing Adobe Reader

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



For details about Adobe Reader, see Help for Adobe Reader.

- Installation of Adobe Reader 9.3 requires either Microsoft Internet Explorer 6.0 or later or Firefox 2.0 or later. Microsoft Internet Explorer is available via Microsoft Update.
- Installation of Adobe Reader 9.3 requires MSI (Microsoft Windows Installer) version 3.1 or later. Microsoft Windows Installer is available via Microsoft Update.

- 1 Click [Browse CD-ROM Content].
 - The files on the CD-ROM are listed.

2 Open the folder for your language in the [Adobe Reader] folder and double-click the Adobe Reader installer.

 A screen appears to confirm user account management for Windows 7 and Windows Vista. Select [Continue].

3 Install Adobe Reader by following the messages displayed.

Installing EX1

For information on using EX1, see the "Software Users Guide".

1 Click [Browse CD-ROM Content].

• The files on the CD will be displayed.

2 Start the installer.

 Double-click [EX1] and then double click either [EX1_for_Server] (or [EX1_for_Server.exe]) or [EX1_for_Client] (or [EX1_for_Client. exe]). Under Windows 7 and Windows Vista, a [User Account Control] dialog will be displayed; click [Continue].

3 Install EX1.

Follow the on-screen instructions.

🍟 Uninstalling the Software -----

- The software can be uninstalled using the [Programs and Features] control panel (Windows 7 and Windows Vista) or [Add/Remove Programs] control panel (other versions of Windows).
- · Administrator privileges are required.
- Quit any other programs that may be running before uninstalling the software.

Copying Pictures to Your Computer

Follow the steps below to copy pictures to your computer.

- 1 Connect the camera to the computer using the supplied USB cable.
 - Turn the camera off before connecting the USB cable.
 - The camera turns on automatically when a connection is established.



- 2 Copy photos to the computer. If DL-10 is installed:
 - DL-10 starts and image transfer begins automatically.
 - Pictures are copied to the [Digital Camera] folder in [My Documents], where they are sorted into separate folders by date of recording. See the "Software User Guide" on the supplied CD for more information.

If DL-10 is not installed:

- Copy files from the camera to the desired location.
- When an SD memory card is loaded, its files are displayed. Otherwise, files in the internal memory are displayed.



16

3 Disconnect the USB cable when transfer is complete.

- · Click the [Safely Remove Hardware] or 16:49 < [Unplug or Eject Hardware] icon in the taskbar (the illustration above shows the icon for Windows XP) and select [Safely Remove USB Mass Storage Device] or [Stop USB Mass Storage Device] from the menu that appears. You can then disconnect the USB cable
- If the remove hardware icon is not displayed in Windows 7, click the Auton in the taskhar

Caution-----

- Do not turn off the camera or disconnect the USB cable during image transfer.
- Do not use force when connecting the cable or when handling the camera with the cable connected. Do not attempt to transport the camera while the USB cable is connected.
- · To prevent moisture or dust from entering the camera, close the terminal cover securely after disconnecting the USB cable.

The camera is provided with MediaBrowser software that allows you to display and edit images from your computer. For how to use MediaBrowser, see the displayed "Help".

For the latest information about MediaBrowser, access the Web page of Pixela Co., Ltd. (http://www.pixela.co.jp/oem/mediabrowser/e/).





🔦 Note---

This camera supports the following Macintosh operating systems.

- Mac OS 9 0 to 9 2 2
- Mac OS X 10.1.2 to 10.6.3



Caution----

Although the software included in the CD-ROM cannot be used with Macintosh. it is possible to display the "Software User Guide" (note that Acrobat Reader is required to view the "Software User Guide" under Mac OS 9).

Copying Pictures to Your Computer

Follow the steps below to copy pictures to your computer.

- Connect the camera to the computer 1 using the supplied USB cable.
 - Turn the camera off before connecting the USB cable.
 - The camera turns on automatically when a connection is established.

2 Copy photos to the computer.

- · Copy files from the camera to the desired location.
- When an SD memory card is loaded, its files are displayed. Otherwise, files in the internal memory are displayed.





Disconnect the USB cable when transfer is complete. 3

 Drag the camera volume into the Trash and then disconnect the USB cable.

- 🚺 Caution-
 - Do not turn off the camera or disconnect the USB cable during image transfer.
 - Do not use force when connecting the cable or when handling the camera with the cable connected. Do not attempt to transport the camera while the USB cable is connected.
 - You can also click [Eject] on the [Special] menu in Mac OS 9 or the [File] menu in Mac OS X to cancel the connection.
 - If the USB cable is disconnected without disabling the connection, the Unsafe Removal of Device screen may be displayed. Be sure to stop the connection before removing the USB cable.
 - When you connect your camera to a Macintosh computer, a file called "FINDER.DAT" or ".DS_Store" may be created in your SD memory card, which will appear as [Unmatched File] on your camera. You can delete this file from the SD memory card if you wish.
 - To prevent moisture or dust from entering the camera, close the terminal cover securely after disconnecting the USB cable.

17 Appendices

Troubleshooting

Error Messages

If an error message is displayed on the screen, check the information on the reference page and take the corresponding action.

Non-Bluetooth® or Wireless LAN related error messages

Error Message	Cause and Solution	Refer to
Insert card.	No card is loaded. Insert a card.	P.27
Set date.	The date is not set. Set the date.	P.86
The file number limit has been exceeded.	The file number limit has been exceeded. Use another card.	P.86
Unmatched File	This file cannot be displayed on the camera. Check the file contents on your computer, and then delete the file.	—
Insufficient memory. Continue?	All the files cannot be copied because there is insufficient memory on the card. Use another card.	P.24
Protected	The file selected for deletion is protected.	P.79
Card Is Write-Protected.	The card is locked (write-protected). Unlock the card.	P.25
This option is not available with SD WORM cards.	Selected option is not available with SD WORM cards. Use a different type of card.	P.24
Print settings cannot be applied to this file.	This file (movie or other file) cannot be selected for printing.	—
Insufficient Memory/	Files cannot be stored. Make sure there is sufficient	P.41,
Capacity Short	memory or delete unwanted files.	P.83
	The image print number limit has been exceeded. Select an image and set the number to 0.	P.147
Format internal memory.	The internal memory requires formatting.	P.83
Format card.	The card is not formatted. Format the card with this camera.	P.83
Card Error	Reformat the card. If the error message still appears after that, the card may be faulty. Do not use the card.	P.83
Writing Data	Writing file to memory. Wait until writing finishes.	—
No File	There are no files that can be played back.	—
Out of memory. cannot record.	The number of remaining shots is 0. Switch to another card or the internal memory.	P.24
No files to restore.	There are no files to restore.	P.74

Error Message	Cause and Solution	Refer to
Can not —. *	Selected option can not be applied to image more than once, or image was created with different make of camera.	—
	If image was created with different make of camera, process image using original make of camera.	

* "---" indicates the name of the process that can not be applied.

Bluetooth[®] related error messages

Error Message	Cause and Solution	Refer to
Requested file cannot be sent.	You attempted to send an image other than still ones	P.105
	(.JPG). Only still images (.JPG) can be sent.	
Verifying failed.	The input passkey did not match the destination device.	—
	Enter the correct passkey.	
	The passkey was not entered within the time limit. Enter	P.106
	the passkey again within the time limit.	
Cannot connect.	At the start of transfer, the destination device could not be	P.105
	connected due to one of the following causes. Check the	
	device status and start again from the beginning.	
	 Signal no longer reach the destination device. 	
	• The destination device does not exist nearby (about 10 m (3.3 ft.)).	
	• The destination device is not active because the power is off or due to other causes.	
	The destination device does not support the Bluetooth®	
	Profiles required for communication with this camera.	
	 Inappropriate device was selected for the destination. 	
Cannot send.	Transfer was interrupted by one of the following causes.	—
	Check the device status and start again from the beginning.	
	 Signal no longer reach the destination device. 	
	 The destination device can no longer receive a signal. 	
	 There is insufficient space on the destination device. 	

Wireless LAN related error messages

Communication and send setting errors

Error Message	Cause and Solution	Refer to
Connection error	The camera is unable to establish a connection for some	P.116,
	reason. Check the communication settings.	P.127
Send method must be selected	The [Send Method] setting is not selected in the	P.123
	communication settings. Select [Send via FTP].	
Cannot connect to access point	The destination access point is off or otherwise not	—
	operating. Check the access point.	
	Incorrect communication settings. Check the send settings.	P.116

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Error Message	Cause and Solution	Refer to
The IP address is already in use	The same IP address as the camera exists in the destination network. Check the [IP address] in the Detailed Setups [Networks] tab.	P.116
Conflicting LAN setting	The first destination sent to after turning the camera on and the setting in the Detailed Settings [Network] tab or [Wireless LAN] tab is different. To send to a destination different from the setting in the [Network] or [Wireless LAN] tab, change the destination in advance and restart the camera.	P.116, P.117
Destination not registered	The communication list has not been imported by the camera. Import the communication list into the camera and try again.	P.123
Invalid key size.	 When [Crypt/Authentication] in [W/less LAN] is changed on the camera, check the network key. If [WEP/OPEN] or [WEP/SHARED] is selected for [Crypt/ Authentication], enter the [Network Key] as below. [String]: Five characters or 13 characters [Hex]: Ten characters or 26 characters If [AES/WPA-PSK], [AES/WPA-PSK], [TKIP/WPA-PSK], or [TKIP/WPA2-PSK] is selected for [Crypt/Authentication], the network key must contain 64 characters ([Hex]) or from 8 to 63 characters ([String]). 	P.117, P.118
Cannot find access point.	Camera could not find wireless LAN access point to which it could connect using [Simple Connection] > [WPS Button]/ [WPS PIN]; check device and confirm that signal is not blocked and that the access point is within distance of about 30 m (100 ft.).	P.128
Connection information not available.	Information required for connection to wireless LAN access point is not available. Select any option other than [Off] for [Simple Connection] and try again.	P.128

FTP send setting errors

Error Message	Cause and Solution	Refer to
No upload server name setting	[Server Name] for the destination is not set in the Detailed	P.118
	Setups [FTP Send] tab. Set the [Server Name] setting.	
Cannot detect IP address	Unable to acquire the IP address of the destination server.	P.118
	Set the correct [Server Name] setting in the Detailed	
	Setups [FTP Send] tab.	
No response from server	The destination server does not respond. Check the	P.118
	advanced settings on the [FTP Send] tab.	
Cannot connect to server	Unable to connect to the destination server. Check the	P.118
	advanced settings on the [FTP Send] tab	
Setting error either in user name	Incorrect [User Name] or [Password] setting. Set the correct	P.118
or password	[User Name] and [Password] settings in the Detailed	
	Setups [FTP Send] tab.	

Appendices 17

Error Message	Cause and Solution	Refer to
The folder does not exist.	The specified inbox folder does not exist on the destination.	
	Set the correct [Folder Name] setting in the Detailed	
	Setups [FTP Send] tab.	
Cannot send	Unable to send files for some reason. Check the advanced	P.118
	settings on the [FTP Send] tab.	
Server error	An error is received from the server after connecting to the	—
	server. Try resending the file.	



If you cannot solve the problem using the solutions above, contact a Ricoh office

or your local authorized Ricoh dealer.

Camera Troubleshooting

Power Supply

Problem	Cause	Solution	Refer to
The camera does not turn on.	The battery is exhausted or not inserted.	Check that battery is correctly inserted. Charge battery (rechargeable battery only), insert fresh battery.	P.26, P.27
	An unacceptable battery is used.	Use supplied battery or compatible AAA batteries.	P.23
	The camera is automatically turned off by auto power off.	Turn the camera back on.	P.29
	The battery is loaded in wrong direction.	Load correctly.	P.27
	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.	_
The camera turns off during use.	The camera was left unattended and unused, so auto power off turned it off.	Turn the camera back on.	P.29
	Battery is exhausted.	Check that battery is correctly inserted. Charge battery (rechargeable battery only), insert fresh battery.	P.26, P.27
	An unacceptable battery is used.	Use supplied battery or compatible AAA batteries.	P.23
The camera does not turn off.	Camera malfunction	Remove the battery and load it again.	P.27
 The battery has been fully charged, but: The battery symbol is displayed, indicating a low battery level. The camera turns off. 	A unacceptable battery is used.	Use supplied battery or compatible AAA batteries.	P.23
Cannot charge the battery.	Battery has reached the end of its useful life.	Replace with a new rechargeable battery.	P.27
Battery runs out quickly.	It is being used at extreme high or low temperatures.	—	-
	Many shots are being taken in dark places or other location requiring extensive use of flash.	—	_

Appendices 17

Shooting

Problem	Cause	Solution	Refer to
The camera does not shoot even if you press the shutter release	Battery is exhausted.	Check that battery is correctly inserted. Charge battery (rechargeable battery only),	P.26, P.27
button.	The camera is not on.	insert fresh battery. Press the POWER button to turn the camera on.	P.29
	The camera is in playback mode.	Press the (Playback) button to select the shooting mode.	P.29
	The shutter release button is not pressed all the way.	Press the shutter release button all the way.	P.32
	The SD memory card is not formatted.	Format the card.	P.83
	The SD memory card is full.	Load a new card, or delete unwanted files.	P.27, P.41
	The SD memory card has reached the end of its useful life.	Load a new SD memory card.	P.27
	The flash is charging.	Wait until the auto focus/flash lamp stops blinking.	P.35
	The SD memory card is locked.	Unlock the card.	P.25
	The contact surface of the SD memory card is dirty.	Wipe with a soft, dry cloth.	—
Unable to view the shot image.	The image confirmation time is too short.	Lengthen the image confirmation time.	P.84
Images do not appear	The camera is not on, or the	Turn the camera on, or adjust the	P.29,
on the picture display.	picture display is dark.	brightness of the picture display.	P.83
	The VIDEO/AV cable is connected.	Disconnect the VIDEO/AV cable.	—
	The screen display is in synchro- monitor mode.	Press the DISP. button to change the display.	P.44
Although the camera	The lens is dirty.	Wipe clean with a soft, dry cloth.	—
is set to auto focus, it is unable to focus.	The subject is not in the center of the shooting range.	Shoot with focus lock.	P.31
	It is a hard-to-focus subject.	Shoot with focus lock or manual focus.	P.31, P.67
Although the camera is not in focus, the green frame appears in the center of the picture display.	The camera incorrectly focused because the distance to the subject is too close.	Shoot with macro mode, or move away from the subject.	P.34

Problem	Cause	Solution	Refer to
The picture is blurred (The symbol appears).	You moved the camera when pressing the shutter release button.	Hold camera in both hands with your elbows pressed lightly against your torso. Use a tripod.	P.31
		Use the camera shake correction function.	P.65
	When shooting in a dark place	Use the flash.	P.35
	(such as indoors), the shutter speed slows down and pictures become easily blurred.	Raise the ISO setting. Use the camera shake correction function.	P.71 P.65
The flash does not fire.	The flash cannot be used in the	To shoot with the flash, change	P.35,
Or, the flash cannot charge.	following cases: • In bracket shooting • In continuous mode • In movie mode In some scene modes, the flash is disabled by default.	the settings or mode.	P.169
	The flash is set to flash off.	Cancel Flash Off.	P.35
	Battery is exhausted.	Check that battery is correctly inserted. Charge battery (rechargeable battery only), insert fresh battery.	P.26, P.27
Even though the flash	The distance to the subject	Get closer to your subject and	P.71,
fired, the picture is dark.	exceeds the flash range.	shoot. Change the flash mode or the ISO setting.	P.171
	The subject is dark.	Correct the exposure (Exposure compensation also changes the light intensity of the flash).	P.69
Cannot use the ADJ. button function.	The camera memo list is saved on the SD memory card.	Delete files with the ".mta" extension in the camera [TEMPLATE] folder.	-
The image is too bright.	The light intensity of the flash is not appropriate.	Position yourself slightly further from your subject or turn the flash off and use other lighting.	P.35
	Subject is overexposed (The	Correct the exposure.	P.69
	[! AE] symbol appears).	Cancel exposure time.	P.64
	The brightness of the picture display is not appropriate.	Adjust the brightness of the picture display.	P.83
The image is too dark.	The shot was taken in a dark place while set to flash off.	Cancel Flash Off.	P.35
	The subject is underexposed (The	Correct the exposure.	P.69
	[! AE] symbol appears).	Set the long exposure time.	P.64
	The brightness of the picture display is not appropriate.	Adjust the brightness of the picture display.	P.83

Problem	Cause	Solution	Refer to
The image lacks natural color.	The picture was shot in conditions that made it difficult for auto white balance to adjust the white balance.	Add a white object to the composition, or use a white balance setting other than auto.	P.70
The date or recording information does not appear on the screen.	The screen display function is set to no display.	Press the DISP. button to change the display.	P.44
The brightness of the picture display changes during AF.	Ambient lighting is poor or differs from that used for autofocus.	This is normal.	_
Vertical streaks ("smear") appear in photos.	Subject is bright.	This is normal and does not indicate a malfunction.	_
The level indicator is not displayed.	[Level Setting] is set to [Off] or [Sound].	Set [Level Setting] to [Display] or [Disp + Snd].	P.46
	The display is set to a setting other than normal symbol display or histogram.	Press the DISP. button to change the display to normal symbol display or histogram.	P.44
	The camera is upside down (The shutter release button is on the bottom).	Hold the camera correctly.	_
The image is tilted even though it was shot with	You shot the image while moving, such as on a amusement ride.	Shoot in an environment that is not moving.	-
the level indicator in the middle or while the level sound was sounding.	The subject is not level.	Check the subject.	_

Playback/Deleting

Problem	Cause	Solution	Refer to
Cannot play back, or the playback screen does	The camera is not in playback mode.	Press the 🕨 (Playback) button.	P.38
not appear.	The VIDEO/AV cable is not connected properly.	Connect properly.	P.81
	The [Video Out Mode] setting is incorrect.	Set it to the correct format.	P.86
The contents of the SD memory card cannot be played back, or the	No SD memory card is loaded, or an SD memory card with no stored images is loaded.	Load a card with stored images.	_
playback screen does not appear.	You played back an SD memory card that was not formatted with this device.	Load a card that was formatted and recorded with this device.	P.27, P.83
	You played back an SD memory card that was not recorded normally.	Load a normally recorded card.	_
	The contact surface of the SD memory card is dirty.	Wipe with a soft, dry cloth.	-
	There is something wrong with the SD memory card.	Play back images from another card and if there is nothing wrong with the card, the camera is okay. There may be something wrong with the card, so do not use it.	_
The picture display turned off.	Battery is exhausted.	Check that battery is correctly inserted. Charge battery (rechargeable battery only), insert fresh battery.	P.26, P.27
	The camera was left unattended and unused, so auto power off turned it off.	Turn the camera back on.	P.29
A file cannot be	The file is protected.	Unprotect the file.	P.79
deleted.	The SD memory card is locked.	Unlock the card.	P.25
Cannot format the SD memory card.	The SD memory card is locked.	Unlock the card.	P.25

Other Problems

Problem	Cause	Solution	Refer to
Cannot load the SD memory card.	The card is facing the wrong way.	Load correctly.	P.27
The camera does not operate even when the buttons are pressed.	Battery is exhausted.	Check that battery is correctly inserted. Charge battery (rechargeable battery only), insert fresh battery.	P.26, P.27
	Camera malfunction	Press the POWER button to turn the camera off, and then press the POWER button to turn the camera on again.	P.29
		Remove the battery and load it again.	P.29
The date is incorrect.	The correct date/time are not set.	Set the correct date/time.	P.86
The set date disappeared.	The battery was removed.	If the battery is removed for more than three days, the date setting will be lost. Make the settings again.	P.86
Auto power off does not work.	Auto power off is set to [Off].	Set the time for auto power off.	P.84
The operation sound cannot be heard.	The operation sound volume is turned off.	Use [Volume Settings] to set the volume to a setting other than mute.	P.84
Images do not appear on the TV.	The [Video Out Mode] setting is incorrect.	Set it to the correct format.	P.86
	The AV cable is not connected.	Connect the AV cable properly.	P.81
	The TV is not correctly set to VIDEO IN.	Check that the TV is correctly set to VIDEO IN.	-

The following table	e lists the settings availabl	e in each shooting mode.
The following tubi	c insts the settings available	c in cuch shooting moue.

							SCE	ENE		
			Ď	CALS	+ .≙ +∎			B	5	,
۳	(Macro) *1		1	1	1	1	1	1	—	1
	Flash)		1	<	1	1	1	1	1	—
	(Self-timer) * ²		1	1	1	1	1	1	1	_
Dig	ital Zoom * ³		1	1	1	1	1	1	1	1
	Density		—	—	_	—	_	1	—	_
	Size		—	—	—	—	_	1	—	
	Movie Size		—	—	—	—	—	—	—	1
	Picture Qualit		1	* ⁴	1	1	√ *5	—	1	—
	Focus	Multi AF *6	1	1	1	1	1	—	—	1
		Spot AF	1	1	1	1	1	—	—	1
		AF	—	—	—	—	—	—	1	—
Sho		MF	1	1	—	—	1	—	1	1
Shooting Menu		Snap	1	1	1	1	1	—	—	1
gМ		∞	1	 Image: A set of the set of the	1	1	1	—	—	1
nu	Exposure Met		1	 Image: A set of the set of the	—	—	1	—	1	—
	Continuous M	ode * ^{7 *8}	1	1	—	—	—	—	1	—
	Image Setting		1	 Image: A second s	_	_	1	—	1	_
	Auto Bracket	*8 *9	1	 Image: A start of the start of	_	_	_	_	1	_
	Time Exposur	e * ¹⁰	1	1	—	—	—	—	1	—
	Interval Shoo	ting * ¹¹	1	1	_	—	_	_	—	—
	Camera Shake	Correction *12	1	1	1	1	1	1	1	_
	Date Imprint		1	1	1	1	1	1	1	—

*1 [Focus] is set to [Spot AF]. Disabled when [MF] is selected for [Focus].

- *2 Disabled during interval timer and continuous shooting.
- *3 Not available if image is zoomed in during manual focus.
- *4 Picture quality and size for CALS mode is selected using the [CALS Pic Quality] option in the setup menu.
- *5 [111 4:3 F], [111 4:3 N], and [116 4:3 F] only.
- *6 Functions as [Spot AF] when digital zoom is in effect.
- *7 Disabled during interval timer shooting.
- *8 Flash turns off.
- *9 Disabled during continuous shooting.
- *10 Disabled during auto bracketing and continuous shooting.
- *11 Disabled when self-timer is used.
- *12 Not available if [Flash On], [FLASH ON (10M)], or [Flash Synchro.] is selected as flash mode for long time-exposures or continuous shooting or if ten-second self-timer is used.

							SCE	ENE		
			Ď	CALS	+ .≜			Ð	\$ D	
S	Exposure Com	pensation	1	<	1	1	1	—	1	_
hoot	White Balance	*13	1	1	1	1	1	—	1	1
ting	ISO Setting		1	1	_	_	1	_	1	
Shooting Menu	Edit Detection	*14	1	1	1	1	1	1	1	_
Ę	Restore Defau	lts	1	_	_	_	—	—	_	
	ADJ Button	Off	1	1	_	_	—	—	_	-
	Setting 1–4	Exposure Comp.	1	1	1	1	1	—	1	_
	*15	White Balance	1	1	1	1	1	—	1	1
		ISO	1	1	_	_	—	—	—	_
		Quality	1	—	_	_	—	—	—	_
Seti		Focus	1	1	_	_	—	—	—	_
Setup Menu		Image	1	1	_	_	—	—	—	_
lenu		Expo. Metering	1	1	_	_	—	—	—	_
		Cont. Mode	1	1	_	_	—	—	—	_
		Auto Bracket	1	1	_	_	—	—	_	_
		Density	_	_	_	_	—	1	_	_
	Shooting Info. Display Frame		1	1	1	1	1	1	1	_
	Other than the	ose above	1	1	1	1	1	1	1	1

*13 Not available if [Black & White] is selected for [Image Settings].

*14 Disabled during auto bracketing and continuous shooting.

*15 The function displayed when the ADJ. button is pressed in scene mode is always the same and is not affected by the roles assigned to the button.

Specifications

No. of effect	ive pixels (camera)	Approx. 12.10 million effective pixels				
Image Sense		1/2.3 ^{°′} CCD (Approx. 12.40 total million pixels)				
Lens	Focal Length	5.0 mm to 25 mm (equivalent to 28 mm to 140 mm on a 35-mm camera)				
	F-aperture	F3.5 to F5.5				
	Shooting Distance	Normal shooting: Approx. 30 cm to ∞ (Wide-angle) or 50 cm to ∞ (Telephoto) (from the front of the lens)				
		Macro shooting: Approx. 1 cm to ∞ (Wide-angle), 15 cm to ∞ (Telephoto) or 1 cm to ∞ (Zoom macro mode) (from the front of the lens)				
	Lens Construction	11 elements in 9 groups plus 1 prism				
Zoom Magn	ification	Optical zoom at 5.0 \times , Digital zoom at 4.0 \times , Auto resize zoom at approx. 6.3 \times (VGA image)				
Focus Mode	S	Multi AF (CCD method)/Spot AF (CCD method)/MF/Snap/ ∞ (with AF Auxiliary Light)				
Blur Reduct	ion	Digital image stabilizer				
Shutter Speed	Still Image	8, 4, 2, 1 to 1/1500 seconds (The upper and lower limits differ for each shooting mode and flash mode.)				
	Movie	1/30 to 1/10000 seconds				
Exposure Control	Exposure Metering Mode	Multi Light Metering (256 segments)/Center-weighted Light Metering/ Spot Metering (TTL-CCD Metering)				
	Exposure Mode	Program AE				
	Exposure	Manual exposure compensation (+2.0 to -2.0 EV in 1/3 EV Steps), Auto				
	Compensation	bracket function ($-0.5 \text{ EV}, \pm 0, +0.5 \text{ EV}$)				
	Exposure Range	Wide angle: 1.7–15.4 EV				
	(auto mode,	Telephoto: 3.0–15.6 EV				
	center-weighted	(Exposure range for auto ISO calculated using values for ISO 100.)				
	metering)	Note: At 6.0 EV or lower, each drop of 1.0 EV is associated with a 0.25 EV drop in brightness. Brightness drops by no more than 1.0 EV.				
ISO Sensitivi	ity (Standard	Auto/ISO 64/ISO 100/ISO 200/ISO 400/ISO 800/ISO 1600/ISO 3200				
Output Sens						
White Balar	nce Mode	Auto/Outdoors/Cloudy/Incandescent 1/Incandescent 2/Fluorescent/Manual/ Ring Light, White balance bracket function				
Flash	Flash Mode	Auto flash (fires automatically in low-light conditions and when the subject is backlit)/Anti Red-eye/Flash On/FLASH ON (10M)/Flash Synchro./Flash Off				
	Built-in flash Range	Approx. 20 cm to 10.0 m (Wide-angle), approx. 40 cm to 6.2 m (Telephoto) (ISO AUTO/ISO 1600, from the front of the lens)				
	Charging Time	Approx. 8 seconds				
Picture Display		3.0" Transmissive LCD, approx. 920,000 dots				
Shooting M		Auto shooting mode/Scene mode (High Sens/Firefighting/Skew Correct Mode/Text Mode/Zoom Macro/Movie)/My settings mode/CALS mode				
Picture Qua	lity Mode *1	F (Fine), N (Normal)				

Number of	Still Image	4000 × 3000, 3984 × 2656, 2592 × 1944, 2048 × 1536, 1600 × 1200,			
Recorded	Suirmage	1280 × 960, 640 × 480			
Pixels	Movie	1280×720, 640×480, 320×240			
	Text	4000 × 3000, 2048 × 1536			
Recording N	ledia	SD memory card, SDHC memory card (up to 32 GB), SD WORM card, Internal			
		Memory (approx. 103 MB)			
Recording	4000×3000	N: approx. 2713 KB/Screen, F: approx. 4735 KB/Screen			
Data	3984×2656	F: approx. 4177 KB/Screen			
Capacity	2592×1944	F: approx. 2281 KB/Screen			
	2048×1536	F: approx. 1431 KB/Screen			
	1600×1200	F: approx. 880 KB/Screen			
	1280×960	N: approx. 363 KB/Screen, F: approx. 708 KB/Screen			
	640×480	F: approx. 190 KB/Screen			
Recording	Still Image	JPEG (Exif Ver. 2.21)*2			
File Format	Movie	AVI (Open DML Motion JPEG Format Compliant)			
	Compression	JPEG Baseline Format Compliant (Still image, movie)			
	Format				
Other Major	Shooting Functions	Continuous mode, Self-timer (operation time: approx. 10 seconds, approx.			
		2 seconds), Interval shooting (shooting interval: 5 seconds to 3 hours, in			
		increments of 5 seconds)* ³ , AE/AF target shift, Histogram display, Grid			
		guide display, Electronic level			
Other Major	Playback Functions	Thumbnail view, Enlarged view (maximum 16×), Resize, Contrast			
1		Correction, Skew Correction, Trim, Slide show, DPOF			
Interface		USB2.0 (High-Speed USB) Mini-B, Mass storage-compatible *4, AV output 1.0 Vp-p (75 Ω)			
Video Signa	Format	NTSC. PAL			
Power Supp		Rechargeable Battery (DB-65): 3.6V			
	based on CIPA	DB-65: approx. 360 shots			
standard) *5		AAA alkaline: 40 shots *6			
Standard)		(When [LCD Auto Dim] is set to [On] * ⁷)			
Dimensions	$(W \times H \times D)$	$118.8 \text{ mm} \times 71.0 \text{ mm} \times 41.0 \text{ mm}$ (excluding projections; measured			
	(according to CIPA guidelines)			
Weight		Approx. 314 g (including memory card and supplied battery)			
-		Approx. 286 g (camera only)			
Tripod Hole Shape		1/4-20UNC			
Date Maintain Time		Approx. 3 days			
Operating Temperature		-10 °C to 40 °C			
Operating Humidity		90% or less			
Storage Temperature		−20 °C to 60 °C			
Water resistance/ Dust resistance		Camera only: JIS/IEC Class 8 water resistance, JIS/IEC Class 6 dust resistance (IP68)			
Dust resistance		Camera with optional GP-1 or BR-1 attached: JIS/IEC Class 4 water			
		resistance, JIS/IEC Class 6 dust resistance (IP64)			

- *1 The picture quality mode that can be set varies depending on the image size.
- *2 Compatible with DCF and DPOF. DCF is the abbreviation for "Design rule for Camera File system," a JEITA standard (Full compatibility with other devices is not guaranteed).
- *3 When the flash is set to [Flash Off].
- *4 Mass storage mode is supported by Windows 2000, Windows XP, Windows Vista, Windows 7, Mac OS 9.0–9.2.2, and Mac OS X 10.1.2–10.6.3.
- *5 The number of remaining shots is based on the CIPA standard and may vary depending on usage conditions. This is for reference only.
- *6 When using the AAA Alkaline batteries manufactured by Panasonic.
- *7 If [Off] is selected for [LCD Auto Dim], up to 345 shots can be taken with DB-65 batteries and up to 40 shots with AAA alkaline batteries.

Communication Method	Bluetooth [®] standard Ver. 2.1 + EDR
Output	Bluetooth® standard Power Class 2
Communication Range*1	Approx. 10 m (line of sight)
Supported Bluetooth® Profiles ^{*2}	BIP, OPP, SPP
Frequency Band	2.4 GHz (2.4 GHz – 2.4835 GHz)

Bluetooth® Communication Port

*1 The communication range may vary depending on obstructions between the two devices, signal strength, software or operating system in use, and other factors.

*2 These are specifications according to the intended use of the Bluetooth®-enabled devices and are predetermined by Bluetooth® standards.

Compliance Standard	IEEE802.11b/g
Transmission Method	IEEE802.11g: OFDM
	IEEE802.11b: DSSS, DQPSK, DBPSK
Data Transfer Speed*1	IEEE802.11g: 54M/48M/36M/24M/18M/12M/9M/6M (bps)
	IEEE802.11b: 11M/5.5M/2M/1M (bps)
Communication Range* ²	Approx. 30 m
-	This varies depending on the location of the devices, usage environment, and usage conditions.
Security Protocol	WEP (64/128bit), WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)
Frequency Band	2.4 GHz (2.412 - 2.462 GHz)

Wireless LAN Communication Port

*1 The data transfer speeds are the maximum theoretical values based on the wireless LAN standard and may differ from the actual data transfer speed.

*2 The communication range may vary depending on obstructions between the two devices, signal strength, location of the devices, usage environment, software or operating system in use, and other factors.

Number of Images That Can Be Stored

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

Mode	Image Size	Internal Memory	1 GB	2 GB	4 GB	8 GB	16 GB	32 GB
Ô	1200 4:3F	22	202	412	810	1648	3316	6653
CALS	1210 4:3 N	38	351	714	1403	2856	5746	11527
SCENE	1010 3:2F	25	229	465	914	1860	3743	7510
([Movie] and	5M 4:3F	45	416	842	1653	3364	6769	13580
[Text mode] excluded)	BM 4:3F	72	657	1336	2623	5339	10743	21551
excluded)	2M 4:3F	116	1060	2119	4162	8469	17041	34184
	1 4:3F	141	1286	2561	5029	10234	20591	41306
	1 4:3 N	265	2418	4728	9284	18894	38015	76258
	VGA 4:3F	509	4650	8781	17242	35089	70600	141622
SCENE (Text	1210 4:3	38	351	714	1403	2856	5746	11527
Mode)	BM 4:3	72	657	1336	2623	5339	10743	21551
SCENE (Movie)	1280		3 min.	6 min.	12 min.	24 min.	50 min.	100 min.
		20 s	3 s	13 s	14 s	54 s	6 S	31 s
	000 640		8 min.	18 min.	35 min.	72 min.	145 min.	292 min.
		58 s	54 s	7 s	35 s	24 s	42 s	16 s
	VGA 320	2 min.	21 min.	43 min.	86 min.	175 min.	352 min.	707 min.
		22 s	34 s	53 s	10 s	22 s	50 s	47 s

- 🕭 Note---
 - The figures for storage capacity assume that no camera memo lists, voice memos, or other camera system files are stored in the internal memory or on an SD memory card.
 - Fewer images can be recorded on SD WORM cards. The figures for SD WORM cards are given below.

Mode	Image Size	128 MB	1 GB	
Ô	12M 4:3F	25	198	
CALS	12M 4:3N	43	338	
SCENE	10M 3:2F	29	229	
([Movie] and	5M 4:3F	51	399	
[Text mode] excluded)	3M 4:3F	79	614	
excluded)	2M 4:3F	124	956	
	110 4:3F	147	1137	
	110 4:3N	252	1944	
	VGA 4:3F	412	3172	

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- The maximum recording time is the estimated total recording time. Movies may be up to 4 GB in size. The maximum length is 12 minutes for movies recorded at a [Movie Size] of [LD 1280] and 29 minutes for movies recorded at [VG 640] or [VG 320].
- An SD/SDHC memory card with a Speed Class of 6 or better is recommended when recording movies with [100 1280] selected for [Movie Size] (127 P.63).
- The number of remaining shots displayed on the picture display may differ from the actual number of shots, depending on the subject.
- Movie recording time and the maximum number of still pictures may vary depending on the capacity of the recording destination (internal memory or SD memory card), shooting conditions, and the type and manufacturer of the SD memory card.

Image Size	Description
12M 4 : 3 F/12M 4 : 3 N/ 10M 3 : 2 F	 For creating large prints. For downloading to a computer for trimming and other processes.
5M 4:3F/8M 4:3F 2M 4:3F/1M 4:3F/ 1M 4:3N	For creating prints. For shooting a large number of pictures.
VGA 4 : 3 F	 For shooting a large number of pictures. For attaching to e-mail. For posting on a website.

• Choose image size according to how the picture will be used:

Defaults Settings/Functions Whose Defaults Are Restored When the Camera Is Turned Off

Turning the camera off may reset some function settings to their defaults. The table below indicates whether or not the function is reset to its default when the camera is turned off.

	O: setti	ng is	saved ×: setting is reset
	Function		Default Settings
Shooting	Density	0	Normal
	Size (Text Mode)	0	12M 4:3
	Movie Size	0	HD 1280
	Picture Quality/Size	0	12M 4:3N
	Picture Quality/Size (Skew Correction)	0	1 4:3F
	Focus	0	Multi AF
	Focus (Firefighting)	0	Snap
	Exposure Metering	0	Multi
	Continuous Mode	×	Off
	Image Settings	0	Standard
	Auto Bracket	0	Off
	Time Exposure	0	Off
	Interval Shooting	×	0 Sec.
	Camera Shake Correction	0	Off
	Date Imprint	0	Off
	Exposure Compensation	0	0.0
	White Balance	0	Auto
	ISO Setting	0	Auto
	Edit Detection	0	Off
	Macro	0	Macro Off
	Flash	0	Flash Off
	Self-Timer	×	Off
Playback	Volume Adjustment	0	—
Setup	LCD Brightness	0	—
	Reg. My Settings	0	—
	Stepped Zoom	0	Off
	ADJ Button Setting 1	0	Exposure Comp.
	ADJ Button Setting 2	0	White Balance
	ADJ Button Setting 3	0	ISO
	ADJ Button Setting 4	0	Quality

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O: setting is saved ×: setting is reset

	Function		Default Settings
Setup	AF Auxiliary Light	0	On
	Operation Sounds	0	All
	Volume Settings	Õ	■■□ (Medium)
	LCD Confirmation Time		0.5 seconds
	Auto Power Off	0	30 minutes
	Monitor Auto off Delay	0	Off
	LCD Auto Dim	0	On
	Digital Zoom Image	0	Normal
	Level Setting	0	Display
	Grid Guide Display Options	0	
	Shooting Info. Display Frame	0	Off
	Auto Rotate	0	On
	Card Sequence No.	0	Off
	Date Settings	0	_
	Language/言語	0	(*1)
	Video Out Mode	0	(*1)
	CALS Pic Quality	0	1M 4:3N
	Start Date/Time	0	On
	Choose/Change Password	0	_
	Password Protection	0	Off
	Password Validity Period	0	Off
	Power Button Hold Options	0	Off
Camera Memo	Camera Memo Mode	0	Mode1
	Memo Skip	0	Item 2
	Mark Memo Added to Photos	0	Off
	Memo Warning	0	Off
	Display Memo at Startup	0	Off
	Memo Increment	0	Off
	Camera Memo Imprint	0	Off
	Camera Memo 1 Auto Delete	0	Off
	Barcode Type	0	Auto
	Barcode Mode	0	Mode1
	Scan Time	0	3 seconds

(*1) The default setting varies depending on where you purchased the camera.

O: setting is saved ×: setting is reset

	Function		Default Settings
Expanded	GPS Datum	0	WGS-84
Settings			LAT/LON
settings	GPS Disp Mode	0	
	GPS Lock	0	Off
	GPS Data Select	0	GPS Options
	GPS Track Time	0	Off
	Compass Heading	0	Cardinal
	GPS Data Imprint	0	Off
	UTC Data Imprint	0	Off
	Heading Data Imprint	0	Off
	Range Finder Mode	0	Mode1
	Communication Mode	0	W-LAN
	Send Status	0	On
	Simple Connection	0	Off
	Bluetooth Pass Key	0	—
	Bluetooth Search Count	0	5
	Bluetooth Auto Conn	0	Off
	Bluetooth Master/Slave	0	Slave
	Image File Size	0	640
	Auto Delete	0	Off
	Quick Send Mode	0	Off
	Bluetooth Profile	0	OPP/BIP
	Custom Help	0	Off
	Admin Pass Key	0	0000

Using a Wide Conversion Lens

A wide conversion lens (DW-5) enables shooting at a lens magnification of 0.8 times (equivalent to a 35 mm camera's 22 mm zoom in wide-angle).





Caution-----

- When the wide conversion lens is attached, set the zoom position to the wideangle end.
- When the wide conversion lens is attached, even if you use the internal or external flash, the area around the subject is not illuminated sufficiently so the picture will be partly underexposed.



Note -----For cleaning and storage, see the documentation that came with your wide conversion lens.

Optional Filters

Commercially-available filters with a diameter of 37 mm can be mounted on the lens to protect it from damage and condensation.



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Using the External Flash

You can attach an external flash and other accessories (available in stores) to the accessory shoe.



You can only use an external flash

equipped with both of the following functions.

- · Slave flash function (flash is triggered in response to the firing of another flash)
- Pre-flash support function (flash is synchronized with the second flash instead of the pre-flash)



Caution-----The accessory shoe conforms to JIS B7101.

- You cannot use an external flash with no spring or lock mechanism.
- You cannot use an external flash for which synchronization with the pre-flash cannot be cancelled.



Note-----

The accessory shoe does not support a synchronizer contact.

Using Your Camera Abroad

Battery Charger (Model BJ-6)

The battery charger can be used in regions with a current of 100–240V, 50 Hz/60 Hz. If you are going to travel to a country that uses a different shaped wall outlet/plug, please consult your travel agent on a plug adapter suitable for wall outlets in your country of destination.

Do not use electrical transformers. It may damage the camera.

Warranty

This product was manufactured for use in the country in which it was purchased. The warranty is only valid in the country in which the camera was purchased. 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.

Playback on Television in Other Regions

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

This camera is compatible with both NTSC and PAL television formats. Set the video format on the camera to match that of the television you are using.

When you go abroad, set your camera to the local video format.

Waterproofing/Dust Resistance

- The camera complies with the JIS/IEC Class 8 standard for water resistance and the JIS/IEC Class 6 (IP68) standard for dust resistance. Note, however, that when an optional GP-1 GPS unit or BR-1 barcode reader is attached, it complies with the JIS/IEC Class 4 standard for water resistance only.
- After shooting in the rain or cleaning in water, water may seep through the eyepiece of the lens segment and the tripod screw holes on the underside. This is not a problem because these sections are of double structure.
- The internal mechanisms of the camera are neither waterproof nor dustproof.
- Should water enter the inside of the camera, remove the batteries immediately and contact the Ricoh Repair Center.

Cautions on Use

- When opening and closing the battery/card cover or terminal cover, take care to prevent any water, sand, mud, dust, or other foreign matter that may have adhered to the camera from entering the interior of device. If possible, avoid opening or closing the camera at the beach, near the sea, or in sandy soil to prevent seawater or sand from getting inside.
- Open and close the battery/card cover or terminal cover with your bare hands. Do not wear gloves, as any sand, dust, or other foreign matter that may have adhered to the gloves may get inside the camera. Remove any water, sand, mud, dust, or other foreign matter that may have adhered to the camera and open and close the covers in a place where it will not be exposed to dirt.
- Water droplets may get inside when the cover is opened. Wipe dry before using.
- Because of its waterproof structure, the mode dial may be hard to turn when it has not been operated for a long time. If this occurs, operate the dial several times to restore it to the initial state.
- On a sandy beach or in a dusty place such as a construction site, pay sufficient attention to prevent sand or dust from adhering to the camera.
- Do not leave the camera in places where there are extremes of temperature or humidity, such as in a closed car, at the seashore, or in a bathroom.
- Do not force the battery/card cover or terminal cover.
- Do not lift the camera by the battery/card cover or terminal cover.
- If any foreign object (metal, water, liquid) gets inside the camera, stop using the camera immediately. Turn the power off, remove the battery and memory card, and consult your nearest dealer or Ricoh Repair Center.
- In cold climates, if the camera has water droplets adhering to its surface, they
 may freeze. Using the camera with ice on it may cause it to fail. Do not leave
 the camera with water adhering to it.

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- This product was manufactured for use in the country in which it was purchased. The warranty is only valid in the country in which the camera was purchased.
- 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.
- While you are carrying the camera, be careful not to hit it against other objects. Take special care to not hit the lens and picture display.
- · Firing the flash consecutively may heat the firing unit. Do not fire it consecutively more than necessary.
- Do not touch the flash and keep foreign objects away from the firing unit. Doing so can cause burns and fires.
- Do not fire the flash near eyes. It could cause visual impairment (particularly for infants).
- Do not fire the flash near the driver of a vehicle to avoid causing accidents.
- The battery may become hot after extended use. Touching the battery immediately after use could result in burns to your fingers.
- If the picture display or panel is exposed to sunlight, they may become washed out and images may become hard to view.
- The picture display 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 ICDs. These are not failures.
- Do not forcefully press the surface of the picture display.
- 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. If condensation occurs, remove the battery and memory card, and wait until the moisture has dried before using the camera.
- To avoid damaging the connectors, do not put any objects into the camera's microphone or speaker holes.
- 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.



🎬 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.

Care and Storage

Care

- · Please note that if fingerprints, dirt, etc. get onto the lens, picture quality will suffer.
- Any dust or dirt on the lens should be gently removed either with a blower (available from third-party suppliers) or a soft cloth, paying particular attention to the area around the lens barrel. Do not touch the lens directly with your fingers.
- If the camera is dirty or after use at the beach, take the following steps: Make sure the battery/card cover and terminal cover are securely closed. Fill a wash-basin or bowl with tap water and use the water to remove any dirt, sand or salt from the camera, and then wipe the camera dry with a soft, dry cloth.
- If the rubber packing is dirty, wipe it clean with a soft, dry cloth. If the rubber packing
 has anything sticking to it or it is cracked or damaged, its waterproofing function may
 be compromised, resulting in leakage. If dirt cannot be removed or the packing is
 damaged, request your nearest dealer or Ricoh Repair Center to replace the packing.
- In the unlikely event that your camera fails to work properly, please consult your Ricoh 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 picture display is easily scratched, do not rub hard objects against it.
- Clean the surface of the picture display by wiping gently with a soft cloth containing a small amount of display cleaner (that does not contain organic solvents) sold in stores.

Use and Storage

- Please avoid using or storing your camera in the following kinds of places, as this may damage the camera.
 - 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.
 - Places where it is in direct contact with vinyl or rubber products or chemicals, including mothballs or other insect repellent, for long periods of time.
 - Places with strong magnetic fields (near a monitor, transformer, magnet, etc.).
- To keep the camera free from dust and other foreign matter, store it in a lint-free case. Do not place it directly in a pocket or other location where it will be exposed to dirt or lint.
- Remove the battery if you are not going to use the camera for a long period of time.

Appendices

Replacing the rubber packing

To maintain the waterproof ability, replace the rubber packing every two years, regardless of whether it has gotten dirty. If you use the camera frequently in a wet, sandy, or dusty environment, we recommend replacing the packing every year. The replacement will be performed by the Ricoh Repair Center on a chargeable basis.

Precautions regarding care of your camera

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

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 Ricoh Repair Center. Please note that you will be not be reimbursed for the cost of bringing the camera to the Ricoh Repair Center.
- 2. This warranty does not cover any damage resulting from:
 - failure to follow the instructions in the instruction manual;
 - repair, modification or overhaul not conducted by an authorized service center listed in the instruction manual;
 - (3) fire, natural disaster, act of God, lightning, abnormal voltage, etc.;
 - (4) improper storage (noted in the "Camera User Guide"), leaking of battery and other fluids, mold, or otherwise insufficient care of the camera.
 - (5) dropping the camera or exposing it to water, mud, sand, etc. with the battery/card cover or terminal cover open.
- 3. 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 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.
- 8. The warranty is only valid in the country in which the camera was purchased.
 - * 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.
- 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 seriously 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 impossible.

🕭 Note--

- 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.
- This warranty does not apply to data stored on an SD memory card or in internal memory.

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Appendices

Notes to users

This Transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. G700SE has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. Please refer to the SAR test report that was uploaded at FCC website.

INFORMATION TO THE USER

USA FCC Part 15 Class B

This 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, the 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 into an outlet on a circuit different from that to which the receiver is 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 connections to 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: G700SE

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of this device.

RICOH AMERICAS CORPORATION 5 Dedrick Place, West Caldwell NJ, 07006 Tel.: 1-800-225-1899

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 B est 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.

Appendices

Notice to Users in EEA Countries

CED Declaration of Conformity

This product complies with the essential requirements and provisions of Directive 1999/5/ EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

The CE Declaration of Conformity is available on the Internet at URL: http://www.ricoh.com/r_dc/support/ce_docs/

National Restrictions

Outdoor use of the 2.4 GHz band is prohibited in the following country:

- France
- * Use may be prohibited in other areas also.

Ce produit est conforme aux exigences essentielles et aux dispositions de la Directive 1999/5/CE du Parlement européen et du Conseil du 9 mars 1999, concernant les équipements hertziens et les équipements terminaux de télécommunications et la reconnaissance mutuelle de leur conformité.

La Déclaration de conformité CE est disponible sur Internet à l'adresse suivante : http://www.ricoh.com/r_dc/support/ce_docs/

Restrictions nationales

L'utilisation de la bande de fréquence 2,4 GHz en extérieur est interdite dans le pays suivant:

- France
- * Il se peut que son utilisation soit également interdite dans d'autres pays.

Dieses Produkt entspricht den Anforderungen und Vorschriften der Richtlinie 1999/5/ EG des Europäischen Parlaments und des Rates vom 9. März 1999 über Funkanlagen und Telekommunikationsendeinrichtungen und die gegenseitige Anerkennung ihrer Konformität.

Die CE-Konformitätserklärung ist im Internet unter folgender URL abrufbar: http://www.ricoh.com/r_dc/support/ce_docs/

Nationale Beschränkungen

Die Verwendung einer 2,4 GHz-Frequenz im Freien ist im folgenden Land untersagt:

- Frankreich
- * In anderen Ländern kann die Verwendung ebenfalls verboten sein.

Dit product voldoet aan de essentiële eisen en bepalingen van Richtlijn 1999/5/EG van het Europees Parlement en de Raad van 9 maart 1999 betreffende radioapparatuur en telecommunicatie-eindapparatuur en de wederzijdse erkenning van hun conformiteit.

De EG-verklaring van conformiteit is beschikbaar via internet op de volgende URL: http://www.ricoh.com/r dc/support/ce docs/

Nationale beperkingen

Het gebruik van de 2.4GHz-freguentieband is verboden in:

- Frankriik
- * Het gebruik ervan kan ook in andere gebieden verboden zijn.

Ouesto prodotto è conforme ai requisiti essenziali e alle disposizioni della Direttiva 1999/ 5/CE del Parlamento europeo e del Consiglio, del 9 marzo 1999, riguardante le apparecchiature radio e le apparecchiature terminali di telecomunicazione e il reciproco riconoscimento della loro conformità

La dichiarazione CE di Conformità è disponibile su Internet all'indirizzo: http://www.ricoh.com/r dc/support/ce docs/

Restrizioni nazionali

L'utilizzo in ambiente esterno della banda 2.4 GHz è vietato nel seguente paese:

- Francia
- * L'utilizzo potrebbe non essere consentito anche in altre aree.

Este producto cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE del Parlamento Europeo y del Consejo. de 9 de marzo de 1999, sobre equipos radioeléctricos y equipos terminales de telecomunicación y reconocimiento mutuo de su conformidad.

La Declaración de Conformidad de CE está disponible en Internet en la siguiente dirección URL: http://www.ricoh.com/r dc/support/ce docs/

Restricciones nacionales

Está prohibido el uso en exterior de la banda de 2,4 GHz en:

- Francia
- * Es posible que el uso también esté prohibido en otras zonas.

Hinweis für Benutzer in Ländern des europäischen Wirtschaftsraumes

Dieses Produkt befindet sich in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/ EG des Europäischen Parlaments und des Rates vom 9. März 1999 über Funkanlagen und Telekommunikationsendeinrichtungen und die gegenseitige Anerkennung ihrer Konformität.

Unter der folgenden URL finden Sie die offizielle Konformitätserklärung: http://www.ricoh.com/r_dc/support/ce_docs/

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From environmental friendliness to environmental conservation and to environmental management

Ricoh is aggressively promoting environmentfriendly activities and also environment conservation activities to solve the great subject of management as one of the citizens on our precious earth.



To reduce the environmental loads of digital cameras, Ricoh is also trying to solve the great subjects of "Saving energy by reducing power consumption" and "Reducing environment-affecting chemical substances contained in products".

If a problem arises

First of all, see "Troubleshooting" (CPP P.159) in this manual. If the issues still persist, please contact a Ricoh office.

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