

TOSHIBA

INSTRUCTION MANUAL



To ensure that you use the Toshiba PDR-5300 Digital Still Camera safely and correctly, read this Instruction Manual carefully before you start using the camera. Once you have finished reading this Instruction Manual, keep it handy at all times.

DIGITAL STILL CAMERA

PDR-5300

Attention

For customers in the U.S.A.

DIGITAL STILL CAMERA PDR-5300

Tested To Comply
With FCC Standards

FOR HOME OR OFFICE USE

FCC Statement

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

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

NOTE

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:

- Change the direction of the radio or TV antenna.
- Move the equipment or the radio or TV. For example, if the equipment is to the right of the TV, move it to the left of the TV.
- Or, move the equipment farther away from the radio or TV.
- Plug the equipment into a different outlet. Don't plug your radio or TV into the same circuit as your equipment.
- Ensure that all expansion slots (on the back or side of the equipment) are covered.
- Also, ensure that all metal retaining brackets are tightly attached to the equipment.
- If these suggestions don't help, consult your equipment dealer or experienced radio/TV technician for help.

CAUTION

Changes or modification made to this equipment not expressly approved by Toshiba or parties authorized by Toshiba could void the user's authority to operate the equipment.

TOSHIBA AMERICA INFORMATION SYSTEMS, INC.

Imaging Systems Division
9740 Irvine Boulevard,
Irvine, California 92618-1697
Phone Number: (800)298-1354

For customers in Canada

CAUTION
This Class B digital apparatus complies with Canadian ICES-003.

In the space provided below, please record the model and Serial No. of your camera.

Model No. _____ Serial No. _____
Please retain this information for future reference.



Preface

- Before Using Your Camera
- Accessories
- Safety Precautions
- Contents
- Handling Your Camera
- Notes On Handling Battery
- Handling the AC Adapter Correctly
- Handling the Supplied SD Card Correctly

Before Using Your Camera

Thank you for purchasing this TOSHIBA PDR-5300 Digital Still Camera. To ensure that you use the Toshiba PDR-5300 Digital Still Camera safely and correctly, read this Instruction Manual carefully before you start using the camera. Once you finish reading this Instruction Manual, keep it handy at all times.

The design, specifications, software and contents of this Instruction Manual are subject to change without notice in the interest of product improvement. The illustrations in this manual are exaggerated and simplified for ease of viewing, so there can be slight differences between them and the actual product.

Trademark Information

- Microsoft, Windows, DirectX and Windows Media are trademarks or registered trademarks in the U.S. and other countries by the U.S. Microsoft Corporation. Windows is an abbreviated term referring to the Microsoft Windows Operating System.
- Macintosh and Mac OS are trademarks or registered trademarks of Apple Computer, Inc.
- AOCSeer is a trademark of AOC Systems Co.
- SD logo is a trademark.
- MultiMediaCard is a trademark of Infineon Technologies AG in Germany.
- Other company or product names are trademarks or registered trademarks of the respective companies.



Copyright Notice

Images taken with digital still cameras are for personal enjoyment only and must not be used, indicated, distributed, or exhibited, etc. otherwise without the permission of the copyright holder as per copyright laws.

Note that photographing some performances, exhibitions, etc., is restricted even when photographs are taken for personal enjoyment. In addition, the transfer of memory cards (SD cards, etc.) containing copyrighted images and files is limited to purposes within the range permitted by copyright laws.

About the Used Terms

- Windows 98 refers to Microsoft® Windows® 98 Operating System.
- Windows 2000 refers to Microsoft® Windows® 2000 Operating System.
- Windows Me refers to Microsoft® Windows® Millennium Edition Operating System.
- Windows XP refers to Microsoft® Windows® XP Operating System.

U.S.A. Only

WARNING: Handling the cord on this product or cords associated with accessories sold with this product, will expose you to lead, a chemical known to the State of California to cause cancer, and/or birth defects or other reproductive harm. **Wash hands after handling.**

This digital still camera supports Exit Print. 

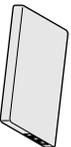
Accessories

Make sure that you have all of the items below. If any item is missing, damaged or mismatched, promptly contact your dealer. In addition to the accessories below, printed materials such as notices or product descriptions may also be included.

AC adapter: (CEX0107 A) or (ADP-15HH A) included.



Lithium-ion battery (PDR-BT3)



USB cable



Software CD-ROM (1)
USB driver (for Windows 98)



• **Instruction Manual (this manual)**

AV cable



Hand strap



SD Memory card



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Safety Precautions

- Read these safety precautions carefully before using this product.
- These precautions provide valuable safety instructions that you must observe.
- The indications used for the precautions have the following meanings:

■ Indication definitions

Indication	Meaning
⚠ DANGER	Indicates the existence of an imminent hazard such that death or serious bodily injury (1) may result from improper use.
⚠ WARNING	Indicates the existence of a hazard such that death or serious bodily injury (1) may result from improper use.
⚠ CAUTION	Indicates the existence of a hazard such that bodily injury (2) or property damage (3) may result from improper use.

*1: "Serious bodily injury" means loss of eyesight, injuries, burns (high and low temperature), electric shock, fracture, poisoning, etc. which leaves a sequelae and requires hospitalization or prolonged treatment.

*2: "Bodily injury" means injuries, burns, electric shock, etc. which does not require hospitalization or prolonged treatment.

*3: "Property damage" means extended harm to home, household effects, domesticated animals, pets, etc.

■ Graphic symbol definitions

Graphic symbol	Meaning
	Indicates a prohibited action that must not be carried out. The actual prohibited action is indicated in the symbol or nearby graphically, or described in text.
	Indicates a necessary action that must be carried out. The actual necessary action is indicated in the symbol or nearby graphically, or described in text.

■ Liability of Disclaimer

- Toshiba Corporation bears no responsibility in the case of damages arising from natural disasters such as earthquakes, lightning, fire, acts by third parties, other accidents, either intentional or negligent misuse by the user, or use under other abnormal operating conditions.
- Toshiba Corporation bears no responsibility for incidental damages (lost profit, suspension of business activities, corruption or loss of the memory contents, etc.) arising from the use of or the inability to use this product.
- Toshiba Corporation accepts no liability whatsoever for any damage arising from not having followed the descriptions in the Instruction Manual.
- Toshiba Corporation accepts no liability whatsoever for any damages arising from malfunctions resulting from combination with equipment or software that is not related to Toshiba Corporation.
- Toshiba Corporation accepts no liability whatsoever for any damages arising from repair or modifications made by the user or an unauthorized third party.
- Toshiba's liability for the product shall not exceed the purchase price of the product under any circumstances within the limits of the law.

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When using the product

⚠️ WARNING

<p>Should you ever notice a strange odor, smoke, or excessive heat coming from the camera, remove the battery and AC adapter.</p>	<p>Do not use the camera in areas near water.</p> <p>This might cause fire or electric shock.</p> <p>Take special care during rain, snow, on the beach, or near the shore.</p>
<p>Continued use in this state might cause fire or electric shock. If the battery does not burn yourself if the battery gets hot. For details on repair, consult the store of purchase.</p>	<p>Do not use the camera in the bath or shower.</p> <p>This might cause fire or electric shock.</p>
<p>If foreign objects or water have entered the camera, turn the power OFF and remove the battery and AC adapter.</p> <p>Continued use in this state might cause fire or electric shock. Consult the store of purchase.</p>	<p>Do not place the camera on inclined or unstable surfaces.</p> <p>This might cause the camera to fall or tilt over, causing injury.</p>
<p>If the camera has fallen or its case has been damaged, turn the power OFF and remove the battery and AC adapter.</p> <p>Continued use in this state might cause fire or electric shock. Consult the store of purchase.</p>	<p>Do not disassemble, change, or repair the camera.</p> <p>This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase.</p>
<p>Do not allow metallic objects or flammable foreign matter inside the camera.</p> <p>This might cause fire or electric shock. Do not insert or drop foreign objects in the battery/SD card slot, terminals, or other holes or openings.</p>	<p>Do not touch power cables and TV cables during a thunderstorm.</p> <p>This might cause electric shock.</p>
<p>Do not play the camera on an airplane, consult the airline company and follow their instructions.</p> <p>Use of the camera is sometimes restricted because of potential radio interference.</p>	<p>Do not use the camera while walking, driving, or riding a motorcycle.</p> <p>This might cause you to fall over or result in a traffic accident.</p>
<p>Do not use the camera in humid, steamy, smoky, or dusty places.</p> <p>This might cause fire or electric shock.</p>	<p>Do not drop or subject the camera to strong impact.</p> <p>This might cause fire, electric shock, or damage to the camera.</p>
<p>Do not leave the camera in places where the temperature may rise significantly, such as inside a car. This might adversely affect the case or the internal parts, resulting in fire.</p>	<p>Before moving the camera, disconnect the cables.</p> <p>Neglecting this might damage the cables, resulting in fire or electric shock.</p>

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Safety Precautions (Continued)

⚠️ CAUTION (continued)

<p>Do not wrap the camera or place it in cloth or blankets.</p> <p>This might cause heat to build up and damage the camera. Do not use the camera in a well-ventilated place.</p>	<p>Do not fire the flash near the eyes.</p> <p>This might cause temporary damage to the eyesight.</p>
<p>Do not swing the camera while walking.</p> <p>If you hold the strap and swing the camera, the camera might come into contact to other people or any object, resulting in injury.</p>	<p>Do not subject the LCD monitor to impact.</p> <p>This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment.</p>
<p>Before cleaning the camera, remove the battery and AC adapter.</p> <p>Neglecting this might cause electric shock.</p>	<p>For the internal cleaning of the camera, consult the store of purchase every two years.</p> <p>If dust accumulates inside the camera, this might result in fire. Consult the store of purchase regarding the cleaning costs.</p>
<p>Do not look at the sun through the viewfinder.</p> <p>This might cause damage to the eyesight.</p>	<p>Do not place blankets over the AC adapter connected with the power heater or on an electric (warm) carpet.</p> <p>This might cause fire.</p>
<p>Use the supplied AC adapter only with the indicated power supply voltage.</p> <p>Use with any other power supply voltage might cause fire or electric shock.</p>	<p>Do not pull the AC adapter cable, place something heavy on it, or pinch it.</p> <p>Do not bend, twist or bundle the AC adapter cable with an excessive force. These might cause fire or electric shock.</p>
<p>If dirt or dust has adhered to the plug on the AC adapter cable or the plug joints, remove the plug from the power source and clean it.</p> <p>The insulation decrease of the plug might result in fire.</p>	<p>Do not disassemble, modify, or repair the AC adapter.</p> <p>This might cause fire or electric shock.</p>

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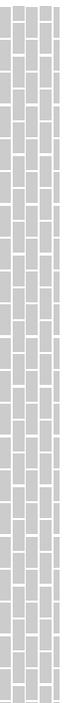
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CAUTION

Do not connect or disconnect the AC adapter plug with a wet hand. This might cause electric shock.



If you plan not to use the camera for a long period of time, remove the AC adapter plug from a wall outlet. Malfunction on the camera, if it happens, might result in fire.



Do not remove the AC adapter plug from a wall outlet by pulling the actual cable.



Do not use the AC adapter with another model or device. This might cause fire or malfunction.



This might damage the cable or plug, resulting in fire or electric shock. Make sure to hold the plug when removing it.

Use only the supplied AC adapter and power cable. Use of an AC adapter other than specified might cause fire.



Firmly insert the AC adapter plug into a wall outlet. Neglecting this might cause fire or electric shock.



About batteries

! DANGER

Do not hit the batteries with a hammer, or use any other tool to subject the batteries to strong impact. This might cause the batteries to rupture or heat up, resulting in fire or serious injury.



Cover the electrodes (+ and - terminals) with insulating tape before taking the batteries to a recycling service. Short-circuiting of the electrodes could cause an explosion or fire.



Do not heat, disassemble or throw the batteries into fire or water. This might cause the batteries to rupture, ignite or heat up, resulting in fire or serious injury.



Use the batteries only for specified applications. Use of the batteries for other applications might cause them to rupture, ignite or heat up, resulting in fire or serious injury.



Do not charge the battery by a method other than the specified charging method. Failing to do so may cause an explosion or fire.



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Safety Precautions (Continued)

! WARNING

Do not leave batteries within the reach of small children. Swallowing batteries might cause poisoning. If you accidentally swallow the battery, contact a doctor immediately.



Use only the specified batteries (PPR-817). Use of a battery other than specified might cause fire.



If fluid leaks from the batteries and comes into contact with your eyes, mouth, nose, or skin, wash them clean, running water, and ask a physician for treatment. Leaving your eyes in this condition might cause eye damage.



Do not connect the battery electrodes (+ or - terminals) with wire or other metallic objects. Also, do not connect the battery electrodes with metallic needles, or pins or other metallic objects. Short-circuiting of the electrodes might cause the batteries to heat up, rupture or ignite.



! CAUTION

Insert the battery carefully making sure that their polarities (marked by + and -) are facing the correct way. Inserting the battery with its polarities facing the wrong way, this might cause short-circuiting or leakage to the battery rupturing or leaking.



Do not leave unusable or discharged battery in the camera. Doing so could result in the battery exploding, catching fire, or heating and could cause fire, burns or injury.



Apply tape or otherwise cover the electrodes and then store or dispose of the used batteries. Storing or disposing of batteries as they are might cause the batteries to leak fluid, heat up or rupture, resulting in burns or injury.



Do not remove the battery immediately after long period of continuous use. The battery become hot during use. Touching a hot battery might cause burns.



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Notes On Handling Battery

When you use the battery, carefully read and strictly observe the Safety Precautions (☞ page 6) and the notes described below.

- The battery is not fully charged when you buy your battery. Be sure to charge the battery before use.

About Battery Use

- The battery gradually discharges even when not used. Charge the battery one or two days before use.
- To maximize the battery life, switch the camera OFF as often as possible when it is not being used.
- In cold locations, the number of frames that can be taken decreases. Take along a spare fully charged battery. You can also increase the amount of power produced by putting the battery in your pocket or other warm place to heat it and then loading it into the camera just before you take a picture.
- Always keep the terminals in a clean state.
- If the battery is used for a long time, the battery itself will become warm. This is normal and not a malfunction.
- The batteries are consumable products. At normal temperatures (+77°F <+25°C), this battery can be recharged for use about 300 times. If the battery runs out quickly, this indicates that the battery has reached the end of its effective life and should be replaced.

When Not Using the Battery for a Long Time

- When the battery is not in use, be sure to remove it from the camera body. If the battery is left attached to the camera body or battery charger, a minute current will flow even if the power is turned OFF. This will result in over discharge and the battery may no longer be used.
- If the battery is not to be used for a while, store it after there is no power left. If the battery is stored for a long time in a fully charged state, its performance may be impaired.
- When the battery is to be stored for a long time, fully charge the battery and then use the battery until there is no power left once every year and then store it.
- Store the battery in a cool place. We recommend a dry place with a surrounding temperature of +59°F (+15°C) to +77°F (+25°C). Avoid storing the battery in extremely hot or cold places.

Charging the Battery

- When you use the battery for the first time or when the battery has not been used for a long time, be sure to charge the battery before use.
- Use only the specified AC adapter.
- This battery does not need to be fully discharged or exhausted before being charged.
- The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction.
- The battery can be charged at temperatures between +41°F (+5°C) and +104°F (+40°C), but should be charged between +50°F (+10°C) and +86°F (+30°C) to obtain maximum battery performance.
- Do not recharge a fully charged battery.

Specifications

Lithium-ion battery (PDR-BT3)

Nominal voltage : 3.7V
Nominal capacity : 1035 mAh
Operating Temperature : +41°F (+5°C) to +104°F (+40°C)
Dimensions : 35.2 mm (W) x 53.0 mm (H) x 7.0 mm (D)
Weight : Approx. 28g

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Handling the AC Adapter Correctly

Be sure to use only the specified AC adapter (GEX0107A or ADP-155HH A). Using a different AC adapter might cause the camera to malfunction.

Before using the AC adapter, carefully read and strictly observe the Safety Precautions (☞ page 6) and the notes described below:

- Do not allow the connectors on the AC adapter to contact any other metal object because this might cause a short circuit.
- To connect the AC adapter, fully insert the plug on the AC adapter into the DC IN 5V terminal on the camera.
- When removing the AC adapter cable, turn the camera off, then disconnect the cable while holding its plug. Do not disconnect the cable by pulling the actual cable.
- Do not drop the AC adapter or subject it to strong impacts.
- Do not use the AC adapter in very hot and humid places.
- Do not insert the plug on the AC adapter while the battery is being used. Switch the camera off first.
- The AC adapter is for indoor use only.
- Do not connect the supplied AC adapter to a device other than this camera.
- The AC adapter may sometimes become warm during use. This does not designate malfunction.
- Buzzing noises may come from inside the camera. This does not designate malfunction.
- Do not use the AC adapter near a radio because it could interfere with the radio.
- If you remove the battery or AC adapter while the camera is in operation, the date may be lost from the memory. If this happens, reset the date.

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Specifications

Input	AC adapter (GEX0107A) 100 to 240 V AC, 50/60 Hz	AC adapter (ADP-155HH A) 5 V DC, 3A
Rated output		32°F (0°C) to +104°F (+40°C)
Operating temperature		-4°F (-20°C) to +149°F (+65°C)
Storage temperature		40mm X 30.5mm X 94.2mm
Dimensions (W x H x D)		50mm X 28.0mm X 65.0mm
Weight		Approx. 150g
Accessory		AC cord

⚠ Memo • Use the power supply indicated on the supplied AC cable. When using power supply other than the one indicated on the AC cable, please refer to the power supply standard that applies to the standard of the country/region.
• The AC adapter can be used with 100V to 240V.

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Handling the Supplied SD Card Correctly

In this Instruction Manual, the SD memory card is called an SD card. Read and observe the following when handling the supplied SD card.

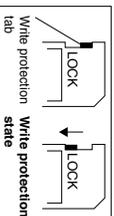


Cautions

- The SD card includes a non-volatile semiconductor memory (NAND Flash memory). Under normal use data saved in the SD card is not damaged or lost. If used improperly, however, the data may be damaged or lost. Please be aware that the manufacturer will accept no responsibility whatsoever for damaged or lost data, regardless of the type or cause of the problem or damage.
- The SD card uses part of the memory as its system area. The actually usable memory capacity is therefore lower than the indicated capacity.
- The supplied SD card has been already formatted for image storage. Always use this camera when reformatting the card to erase images or folders. Formatting the SD card on other devices (PC, etc.) may result in problems such as inability to read or write data.
- We strongly recommend that you make backups of important data.
- When the SD card comes to the end of its life, it does not allow image data to be written or deleted. If this happens, purchase a new SD card.
- This camera conforms to the SD standard Ver. 1.01.

Write Protection

To prevent valuable data from being erased accidentally, switch the write protection tab at the side of the SD card to "LOCK". To save, edit, or erase data in the card, cancel the write protection state.



Specifications

Memory type	: NAND Flash memory
Operating temperature	: +32°F (0°C) to +131°F (+55°C)
Storage temperature	: -4°F (-20°C) to +149°F (+65°C)
Operating/Storage humidity	: 30% to 80% (no condensation)
Dimensions	: 24.0 mm × 32.0 mm × 2.1 mm (W × H × D)
Weight	: Approx. 2g



- They are checked up with SD card published by June 2003.
- The operation of all SD cards available on the market cannot be guaranteed.

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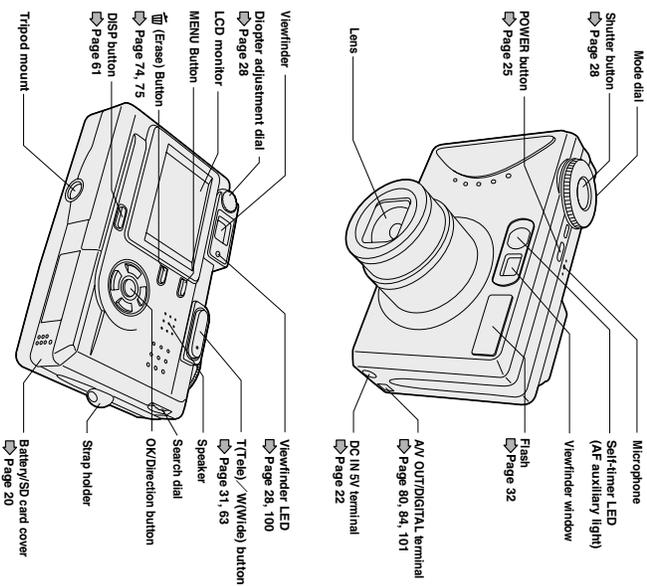
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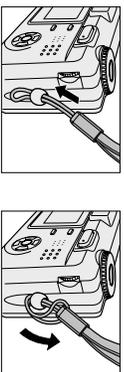
Additional Information

Names of the Parts



Attaching the Hand Strap

Attach the strap as illustrated in the diagram below.



Getting Ready

- Names of the Parts
- Inserting and Removing the Battery
- Charging the Battery
- Inserting and Removing the SD Card
- Turning the Power On/Off
- Setting the Language and Date

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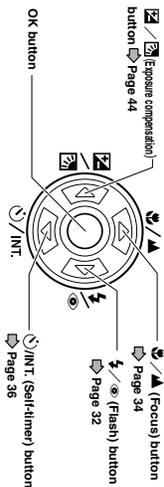
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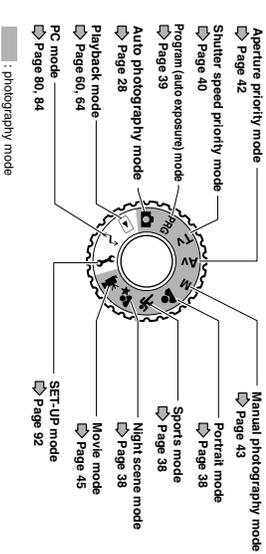
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■ OK/Direction button



■ Mode dial



Icon	Mode	Description	Page
	SET-UP	Performs basic settings of the camera.	92
	Movie	Takes movies.	45
	Night scene	Select this when photographing evening or night scenes.	38
	Sports	Select this when photographing fast-moving subjects.	38
	Portrait	Select this when you wish to photograph a person and blur the background.	38
	Manual photography	Select this when you wish to manually set the shutter speed and aperture.	43
	Aperture priority	Select this when you wish to photograph with aperture priority.	42
	Shutter speed priority	Select this when you wish to photograph with shutter speed priority.	40
	Program (auto exposure)	This permits the shutter speed and aperture to be set automatically and other factors to be set manually.	39
	Auto photography	The camera is automatically set for exposure, etc.	28
	Playback	Performs image playback, deletion, and writing of the print information.	60, 64
	PC	Downloads the image to the personal computer.	80, 84

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Inserting and Removing the Battery

This camera must be used with dedicated rechargeable lithium-ion battery (PDR-BT3). This battery is merely called battery in this instruction Manual. You cannot use other types of battery. Charge the battery before using the camera. (▶ page 22)

- Before starting

Confirm that the power of the camera is off.

Inserting the Battery

- 1 Open the battery/SD card cover.



Slide the battery/SD cover in the arrow direction ①, then open it ②.

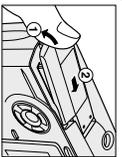
- 2 Insert the battery in the correct orientation shown.



Tilt the battery lock lever in the direction of the arrow and orient the battery so that the label is at the LCD monitor side, then insert the battery. You should insert the battery as far as they go.

Battery lock lever

- 3 Close the battery/SD card cover.



Close the battery/SD card cover ①, then slide it in the arrow direction ②. Make sure that the cover is firmly closed.

Important When the battery is inserted without having properly performed the completion operation, the camera might not operate properly. Should this happen, please switch the power on one more time.

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Removing the Battery

Open the battery/SD card cover and then release the battery lock lever. When the battery has come out a little, slowly pull it out the rest of the way.



- When removing the battery, be sure to turn off the power of the camera beforehand. Removing the battery while the power is on could cause breakdown or the loss of important data.
- Removing the battery while the power is on could result in the camera settings returning to the initial default settings. Should this happen, please perform the settings again.
- When removing the battery, please be careful not to drop it by mistake.

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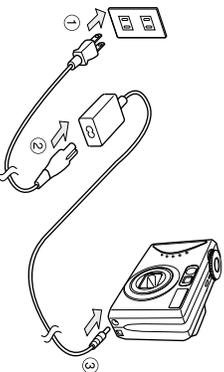


Charging the Battery

Charge the battery before the camera is used for the first time or when the battery reserve is low. It takes approximately 4 hours to complete charging.

Before starting

Confirm that the power of the camera is off and then load the battery (➡ page 20).



1 Insert the AC plug on the AC adapter to an wall outlet.

2 Insert the appropriate end of the AC cable into the AC adapter.

3 Insert the plug of the AC adapter into the DC IN 5 V connector of the camera.

The Viewfinder LED lights green when charging is started and goes off when charging is completed. It lights orange when a charging error occurs. If you wish to use the camera when the battery charging is in progress, use the camera with the AC adapter connected.



- If any problem occurs during charging, pull the AC adapter plug out from the wall outlet, then remove the battery from the camera.
- Before connecting or disconnecting the AC adapter, make sure to turn the camera off. Neglecting this could cause malfunction and/or damage the saved image data even with the battery loaded.
- When using the AC adapter after incorrectly terminating the camera, the camera may not be correctly initiated. If this happens, turn the power off, then turn it on again.
- If the camera has been used at high temperatures, for example, under the blazing sun, charging may not start immediately because heat piled up inside the camera causes the internal sensor to operate. If this happens, wait until the camera cools off and then perform charging.

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- Use of the AC adapter is recommended when the camera will be used indoors over an extended period, or when images will be transferred to a personal computer, etc.
- The battery must be charged when the ambient temperature is in the range from +50°F (+10°C) to +86°F (+30°C).

Battery Wear

When the power is turned on, the camera shows the remaining battery power on the LCD monitor.

Display			
Meaning	Sufficient amount left	Fairly consumed	Nearly exhausted

About battery wear

The battery wear may vary depending on length of storage since manufacture of the battery, temperature of the camera and battery, and operating condition such as flash. Moreover, if the polarities of the battery (+ or -) and the terminal of the camera that come in contact with the electrodes are contaminated, electricity will not flow properly and the camera will decide that the battery are exhausted. When removing and loading the battery, be careful not to tap these parts. If the parts are contaminated, clean with a dry cloth.

When using the supplied Lithium-ion battery pack, the number of photographs that can be taken are shown as below.

- Photography mode
- Conditions : +77°F (+25°C), Flash use rate 100%
- Photography interval : 1 frame every 30 seconds
- Possible number of frames : Approx. 130 frames

- Playback mode
- Conditions : +77°F (+25°C), Slideshow executed
- Playback time : Approx. 90 minutes
- The number of frames and playback time mentioned here are only reference values, they are not guaranteed.

Using the battery efficiently

- This camera consumes electricity even with the power off while the amount is extremely small. We therefore recommend that the battery be removed when not using the camera for a long period of time. If the camera is left without battery about four hours, the date, time and other settings may be reset to the factory defaults. If this happens, set the correct date and time again before using the camera.
- When using the camera in cold areas, keep the camera and battery warm by holding them inside your outer cloth.
- Battery performance lowered through low temperature will return to normal when a normal temperature is restored (+77°F <+25°C>).

Inserting and Removing the SD Card

Images photographed with this camera will be stored in the SD card. Without inserting the SD card, you cannot take photographs using the camera.

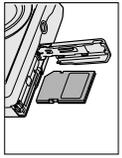
Before starting

Before inserting or removing the SD card, make sure that the power of the camera is off.

Inserting the SD card

- 1 Open the battery/SD card cover.

- 2 Insert the SD card in the correct orientation shown.



Hold the SD card with its metal contact end surface facing the LCD monitor side, then insert the card as far as it can go.

- 3 Close the battery/SD card cover.

Removing the SD card

Open the battery/SD card cover, push the card once so that the card is slightly ejected, then remove the card slowly.

Important

- Never open the battery/SD card cover or remove the card while the card is being recorded (the viewfinder LED lights red). Neglecting this could damage the SD card or the data in the SD card.
- An SD card used with another model or device cannot be used with this camera as it is. Reformat it by this camera before taking photographs (page 94).
- This camera does not support MultiMediaCard™.

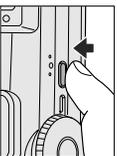
Turning the Power On/Off

● Before starting

Load the battery and insert the SD card. See "Inserting and removing the Battery" [▶](#) page 20, "Charging the Battery" [▶](#) page 22 and "Inserting and Removing the SD Card" [▶](#) page 24

Turning the power on

Press the POWER button to turn the power ON.



The Viewfinder LED lights green and the camera is initiated.
When the power is turned on, the camera will start in the mode that was set with the mode dial.

▶ **Alarm**

• The power is turned off automatically when the camera has not been operated for a fixed period of time. This function is called Auto OFF. To return to the operating condition, turn the power on again.
*Auto OFF [▶](#) page 95

• After the power is turned on, it may take several seconds to charge the flash. While the flash is being charged, the Viewfinder LED lights orange, then the camera is not yet ready for photography. Start photography after the Viewfinder LED is turned off.

Turning the Power OFF

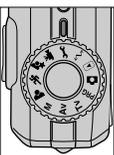
Press the POWER button to turn the power OFF.

The power turns OFF.

Setting the Language and Date

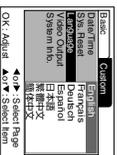
When the camera is used for the first time, the message [Date/Time data has been lost] is displayed on the LCD monitor. Please set the display language and the date and time. The same message will also be displayed when the camera is used after being left for a long time without the battery installed. Please set the date and time.

1 Set the mode dial to [Custom] and press the [OK] button.



[Custom] of the set-up menu is displayed.

2 Select the [Language] with the [Left] and [Right] buttons and press the [OK] button.

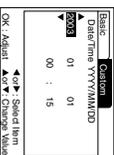


The Language setting screen will be displayed. Select the display language with the [Left] and [Right] buttons and press the OK button. The setting will be stored.

3 Select the [Date/Time] with the [Left] and [Right] buttons and press the [OK] button.

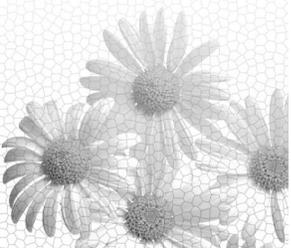
The Date/Time setting screen will be displayed.

4 Select the setting items with the [Left] and [Right] buttons and set the date and time with the [Up] and [Down] buttons.



5 Check the setting contents and press the [OK] button.

The setting will be stored and the screen will return to the set-up menu.



Taking Photographs

[] Taking Photographs in Auto Photography Mode
LCD Monitor Indications When Photographing

Zoom Photography

Setting the Flash

Setting the Focus

Self-timer/Photographing at Intervals

Setting the Scene Mode

[] Taking Photographs in Program (Automatic Exposure) Mode

[] Taking Photographs in Shutter Speed Priority Mode

[] Taking Photographs in Aperture Priority Mode

[] Taking Photographs in Manual Mode

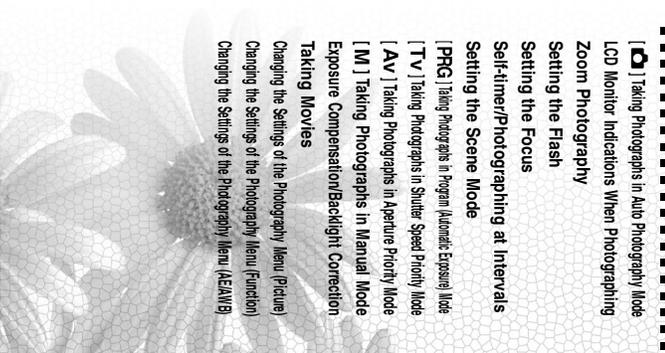
Exposure Compensation/Backlight Correction

Taking Movies

Changing the Settings of the Photography Menu (Picture)

Changing the Settings of the Photography Menu (Function)

Changing the Settings of the Photography Menu (MENU)



[] Taking Photographs in Auto Photography Mode

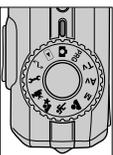
Auto photography is a typical method of photography. Photographs can be taken simply because the exposure (i.e., the combination of shutter speed and aperture setting) is controlled automatically to suit the photographic conditions.

1 Prepare for photography.

Insert the battery (page 20) and the SD card (page 24) into the camera.

2 Press the POWER button to turn the power on.

3 Set the mode dial to [].



4 Compose the picture while viewing the LCD monitor or the viewfinder.

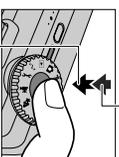
When using the viewfinder, turn the "finder adjustment dial" until the viewfinder image is displayed clearly.

When the LCD monitor is too bright or too dark, adjust the brightness.

"LCD Bright" page 52

5 Press the shutter button halfway 1, and press it fully 2.

1 Press down halfway.



2 Press down fully.

At the shutter button halfway 1 position, the camera automatically focuses and calculates the exposure, and at the fully pressed position the camera takes the photograph. The focus area frame turns light blue and the viewfinder LED lights green when the camera is in focus and the exposure is calculated.

When the focus or exposure is not suitable, the frame of the focus area turns yellow and the viewfinder LED flashes red. If the picture is not clear, the focus area frame turns red, and the picture recording time (s) will be displayed.

When the image is being recorded onto the SD card, "Preview" page 53

When the voice memo is set to "ON", "VOICE RECORDING" will be displayed on the screen immediately after the photography, and the voice memo recording will start. "Recording Voice Memos" page 51, 73



After you have taken photographs, the viewfinder LED stays flash red while the image is recorded onto the SD card. While the viewfinder LED is flashing red, do not open the battery cover, the cover of the SD card, or the cover of the SD card. Doing so might damage the SD card or destroy the data of the SD card.

- When taking photographs, be careful not to allow the strap or your fingers to come in contact with the lens or flash.

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Focusing

- If you want to focus and set exposure for a subject which is not in the center of the screen, move the camera so that the subject is located at the center of the screen, press the shutter button down halfway (to engage the Auto Focus/Auto Exposure lock) and keep the shutter button in this position while you reframe your picture and press the shutter button the rest of the way to complete the photograph.
- The product uses an accurate auto-focus mechanism. However, under conditions and for subjects such as the following, auto focusing might be difficult or the subject might not be in focus:
 - When there are objects in front of or behind the subject (such as animals inside cages or people in front of trees)
 - Subjects with luster such as a mirror or car body
 - Subjects that do not readily reflect light such as hair or fur
 - When the contrast is extremely low (such as people wearing clothes that are the same color as the background)
 - Subjects moving at high speed
 - Subjects that lack solid form such as smoke or flame
 - Subjects viewed through glass
 - When subjects are far away and dark

⚠️Memo

- Constantly bright or dark spots, or colored spots may be visible in the LCD monitor; however, this is not a malfunction. Also note that such spots do not exist in the recorded image.
- The image of the LCD monitor sometimes darkens during the time between pressing the shutter button down halfway and achieving focus.
- Moving the camera while pressing the shutter button will cause the photograph to blur.
- When the camera cannot focus on a subject when engaged in auto focus photography, the focus is fixed at about the 2 m position. During macro photography, depending on the position of the zoom, the focus is fixed at between about 20 cm at the Wide side and about 70 cm at the Tele side.
- Setting the Focus* ➔ page 34
- It sometimes takes several seconds for the flash to recharge. During flash recharging, the viewfinder LED lights orange. Photographs cannot be taken while the viewfinder LED is lit orange.
- When taking photographs in a dark location, the shutter speed becomes slower and an unsteady hold warning icon [] is displayed when the shutter button is pressed down halfway. To prevent hand-held blur, use of a tripod is recommended.
- When the subject is dark, the self-timer LED will light as an auxiliary light for focusing.
- A press of the OK button in the photography mode permits playback of the image that was last photographed. One more press of the OK button returns the camera to the photography mode.

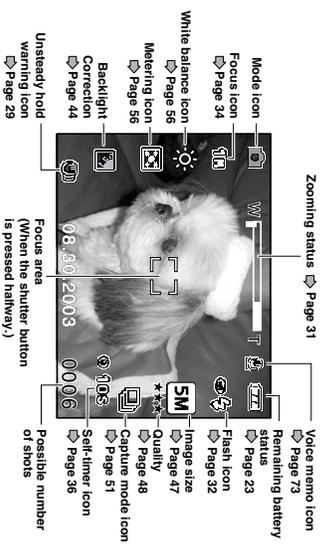
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LCD Monitor Indications When Photographing

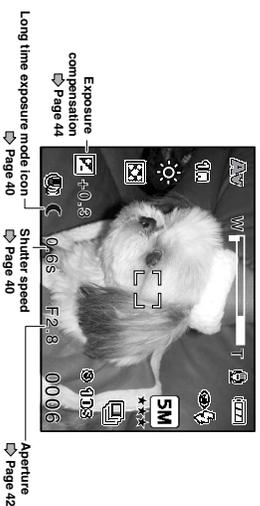
Photography modes [P] [A] [S] [M]

The indicated characters, numbers, icons, and other information will differ depending on the contents that are set.



Photography modes [PRG] [TV] [AV] [M]

The indicated characters, numbers, icons, and other information will differ depending on the contents that are set.



⚠️Memo • Each press of the DISP button switches one step in the sequence of Normal display (displaying the icons, etc.), display OFF, LCD monitor OFF.

30

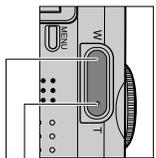
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Zoom Photography

Using a combination of 3 times optical zoom and 4 times digital zoom permits zoom photography of up to 12 times to suit the subject and the distance.

1 Set the mode dial to one of the photography modes.

2 Adjust the degree of zoom with the T (Tele) button or the W (Wide) button to determine the composition.

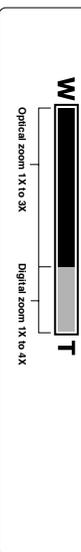


Pressing the T button engages the zoom so that distant subjects can be photographed larger. Pressing the W button allows a wide area to be photographed. The position of the lens changes depending on the condition of the TW buttons.

3 Press the shutter button halfway, and press it fully.

Notes

- The digital zoom can be set on or off with the photography menu.
- Digital Zoom* → page 52
- The settings of the T button and W button will be cancelled automatically when the power is turned off or when Auto OFF is activated.
- The digital zoom is cancelled when the DISP button is pressed and the LCD monitor is switched off.
- You can check the zoom state in the screen.



Setting the Flash

Set the flash for taking photographs. The flash firing mode can be set to suit to the photographic conditions.

The distance over which the flash is effective is about 0.8m to 3.0m (for sensitivity ISO 200). The setting will be maintained even after the power is turned off or Auto OFF is activated.

1 Set the mode dial to one of the photography modes.

The flash setting is limited depending on the selected photography mode, scene mode, and capture mode.
Setting the Scene Mode → page 38, "Capture Mode" → page 51

2 Press the button and select the type of flash.



Each press of the button moves the icon one step through the sequence and displays it on the screen.

For the modes of [C]:

[Blank] [Auto] → [Red-eye Reduction] → [Suppressed Flash] → [Forced Flash]

For the modes of [P], [TV], [AV], and [M]:

[Red-eye Reduction] → [Forced Flash] → [Suppressed Flash]



[Blank] Auto

The flash fires automatically to suit the photographic conditions. This is only effective when the camera is set to the [] mode.

[Red-eye Reduction]

Use this mode to reduce the red-eye phenomenon when you wish to take natural-looking pictures of people and animals in low-light conditions. (Glossary, page 109) When taking photographs, the red-eye phenomenon can be reduced by asking the subject (person) to look at the camera or get as close to the camera as possible. The flash always fires twice, and the photograph is taken at the second firing. When the camera is set to the [] mode, the flash will fire to suit the brightness of the subject.

[Forced Flash]

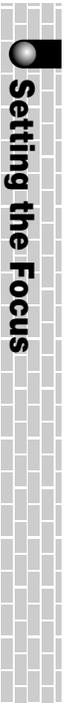
In this mode, the flash always fires. Use this mode for photographing under artificial light such as backlighting, fluorescent lighting, etc..

[Suppressed Flash]

Use this mode when taking pictures using indoor lighting, for stages and indoor competitions, and when the subject is too far away for the flash to be effective.

Macro

- When the scene mode is [], [], [], [Red-eye Reduction is fixed.
- When the scene mode is [], [], [Suppressed Flash is fixed.
- The flash cannot be used in the [] mode and capture mode (Continuous) [Auto Exp].
- When [] has been set for the focus, the camera will be set for [Suppressed Flash.



Setting the Focus

Photographs can be taken with the distance to the subject set by auto focus, [] macro, [] infinity, [] fixed at 3 m, or [] fixed at 1 m, etc. The settings will be maintained even when the power is turned off or when Auto OFF is activated. The focus settings will be limited depending on the selected photography mode.

1 Set the mode dial to one of the photography modes.

2 Press the button and select the type of focus.



Each press of the button moves the icon one step through the sequence and displays it on the screen.

For the modes of [], [PRG], [TV], [AV], [M], [] and [] :

[Blank] Auto focus → [] Macro → [] Infinity
[] Fixed at 1 m ← [] Fixed at 3 m ←

For the modes of [] and [] :

[Blank] Auto focus → [] Infinity
[] Fixed at 1 m ← [] Fixed at 3 m ←



[Blank] Auto Focus

Select this when you want to leave the settings up to the camera so that you can take photographs without paying attention to settings.

[Macro]

Select this when you want to take photographs close up to the subject.

Wide (zoom off) : Approximately 9 cm to infinity
Tele (at optical zoom x3) : Approximately 30 cm to infinity

[Infinity]

Select this when you want to take photographs of subjects at a distance of 5 m or more from the camera.

[3m] Fixed at 3m

Select this when you want to take photographs of subjects at a distance of about 3 m from the camera.

[1m] Fixed at 1m

Select this when you want to take photographs of subjects at a distance of about 1 m from the camera.

Memo • When [1m], [3m] or [Infinity] is set, the camera takes photographs with the focus fixed at those distances.



Self-timer/Photographing at Intervals

This setting allows photographs to be taken with the self-timer and allows interval photography. The setting is cancelled when the power is turned off or when Auto OFF is activated.

1 Set the mode dial to one of the photography modes.

2 Press the button and select the setting value.

Each press of the button moves the icon one step through the sequence and displays it on the screen.

OFF → [M] 10 sec → [S] 2 sec →

[Bulb] Interval → [10/2] 10-2 sec →

[Auto Exp.]



For the [Auto Exp.] mode and capture mode (Continuous),
OFF → [M] 10 sec → [S] 2 sec →

3 Compose the picture, press the shutter button down halfway, then press it the rest of the way.

The self-timer LED flashes and the photograph is taken after the preset time has elapsed.

The countdown is displayed on the LCD monitor. To cancel the self-timer part way through the procedure, press the OK button.

Memo • Photographs cannot be taken continuously.
• The self-timer setting is automatically cancelled after a photograph is taken.
• Use of the [S] self-timer setting is effective in preventing the blurring that can result when the shutter button is pressed.
• The number of photographs that can be taken will differ depending on the capacity of the SD card, the image settings, and other factors.



[] 10 sec.

The picture is taken about 10 seconds after the shutter button is pressed.

[] 2 sec.

The picture is taken about 2 seconds after the shutter button is pressed.

[] 10+2 sec.

One picture is taken about 10 seconds after the shutter button is pressed, then the camera prepares for another photograph (by writing to the SD card and charging the flash). The other photograph is taken 2 seconds after this preparation is completed. This is convenient when taking group photographs in succession.

[] Interval

This allows photographs to be taken with settings of a fixed interval and number of photograph cycles. The photographic interval can be set to 1, 3, 10, or 60 minutes, and the number of photograph cycles can be set from 2 to 99. During the interval between one photograph and another, the viewfinder LED flashes red and the camera power is automatically turned off. "Interval" ⇨ page 54.



Setting the Scene Mode

This sets the scene setting such as [] portrait, [] sports, or [] night scene and takes the photograph.

1 Set the mode dial to one of [], [], or [].

Memo • When the setting is to the [] or [] mode, [] Macro focus cannot be selected.

[] Portrait

Select this when you wish to take a photograph that makes the person stand out and blurs the background. The flash setting will be fixed at [] Red eye reduction which is effective in reducing the red-eye phenomenon.

[] Sports

Select this when you wish to photograph fast-moving subjects. The flash cannot be used.

[] Night scene

Select this when you wish to photograph people with an evening or night scene background. The flash will be fixed at [] Forced flash.

Memo • The description of each scene serves as a general guide. Set the camera to suit your own preferences.

[PRG] Taking Photographs in Program (Automatic Exposure) Mode

The camera automatically sets the shutter speed and the aperture to suit the brightness of the subject. This allows you to take photographs with ease just like when the [**Q**] mode is selected.

- 1 Set the mode dial to [PRG].
- 2 Compose the picture, press the shutter button down halfway, then press it the rest of the way.

Menu • Exposure compensation can be set.
Exposure Compensation/Backlighting Correction (▶ page 44).

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[TV] Taking Photographs in Shutter Speed Priority Mode

In this mode, photographs are taken with the priority given to shutter speed. The aperture is automatically set according to the shutter speed. If you set a fast shutter speed, you can take photographs of moving subjects that look as if they are still. If you set a slow shutter speed, you can take photographs that give the impression that the subject is in motion.

- 1 Set the mode dial to [TV].
- 2 Press the **▲** button and select the shutter speed.



Each press of the **▲** button selects one of [**Q**], Backlight Correction, [**Q**] Exposure Compensation, or [Shutter Speed]. Press the **▲** button until the [Shutter Speed] is displayed in light blue.

- 3 Set the shutter speed with the search dial.



The setting range is as follows.

Turning the search dial up (toward faster shutter speeds)
1/1500, 1/1250, 1/1000, 1/800, 1/640, 1/500,
1/400, 1/320, 1/250, 1/200, 1/160, 1/125, 1/100, 1/80,
1/60, 1/50, 1/40, 1/30, 1/25, 1/20, 1/15, 1/13, 1/10,
1/8, 1/6, 1/5, 1/4, 0.3s, 0.4s, 0.5s, 0.6s, 0.8s, 1s,
1.3s, 1.6s, 2s, 2.5s, 3.2s, 4s, 5s, 6s, 8s

Turning the search dial down (toward slower shutter speeds)
The shutter speed and corresponding aperture value are displayed on the screen. If an appropriate combination cannot be set, the aperture value is displayed in red, but photographs can be taken. You can also perform exposure compensation and backlight correction by using the **▲** button in combination with this mode (▶ page 44).

- 4 Compose the picture, press the shutter button down halfway, then press it the rest of the way.

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[Av] Taking Photographs in Aperture Priority Mode

In this mode, photographs are taken with the priority given to aperture.

The shutter speed is automatically set according to the aperture. If you set a large aperture (small aperture value), you can take portrait photographs with an out-of-focus background. Alternatively, if you set a small aperture (large aperture value), both close objects and distant objects will be in focus, for example when taking landscape photographs.

1 Set the mode dial to [Av].

2 Press the **▲** button and select the aperture.

Each press of the **▲** button selects one of [], Backlight Correction, [] Exposure Compensation, or [Aperture]. Press the **▲** button until the [Aperture] is displayed in light blue.



3 Set the aperture value with the search dial.

The setting range is as follows.

Turning the search dial up (toward aperture)
F6.7/F5.3/F4.8/F4.0/F3.5/F2.8

Turning the search dial down (toward open)

The aperture and corresponding shutter speed are displayed on the screen. If an appropriate combination cannot be set, the shutter speed value is displayed in red, but photographs can be taken. You can also perform exposure compensation and backlight correction by using the **▲** button in combination with this mode (▶ page 44).



4 Compose the picture, press the shutter button down halfway, then press it the rest of the way.

Almemo • The aperture value is adjusted automatically depending on the position of the zoom lens.

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Almemo • Setting the shutter speed slower than 0.6 seconds will result in long exposure photography and the [] will be displayed on the screen.

- In the flash photography mode, when [] Forced flash and [] Red-eye reduction are set, the shutter speed is automatically limited to between 0.5 seconds and 1/250 seconds.
- In AEB(Auto Exp.) photography (▶ page 51) and continuous photography (▶ page 51), the shutter speed cannot be set slower than 0.6 seconds.

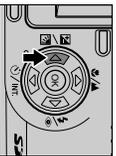
[M] Taking Photographs in Manual Mode

In this mode, photographs are taken by setting the aperture value and the shutter speed individually.

1 Set the mode dial to [M].

2 Select the shutter speed or the aperture with the ◀ button.

Each press of the ◀ button toggles the selection between [Shutter Speed] and [Aperture]. Press the ▶ button until the setting values are displayed in light blue.



3 Set the shutter speed or the aperture value with the search dial.

4 Compose the picture, press the shutter button down halfway, then press it the rest of the way.

Memo • In the last photography mode, when [] Forced flash and [] Red-eye reduction are set, the shutter speed is automatically limited to between 0.5 seconds and 1/250 seconds.

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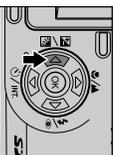
Exposure Compensation/Backlight Correction

Photographs can be taken with the overall screen intentionally made brighter or darker. These settings are used when a suitable brightness (exposure) cannot otherwise be obtained in circumstance where the difference in brightness between the subject and the background (i.e., the contrast) is large, or when the subject that you wish to photograph is very small within the screen. Exposure can be set in 1/3 EV units.

1 Set the mode dial to one of [PRG], [TV], or [Av].

2 Press the ◀ button and select the exposure compensation.

Each press of the ◀ button displays the setting in the order of [Blank], [] Backlight Correction, and [] Exposure Compensation.



3 Set the exposure value with the search dial.



The setting range of exposure compensation is as follows.
Turn the search dial up (to the - side)
-2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0, +0.3, +0.7, +1.0,
+1.3, +1.7, +2.0
Turn the search dial down (to the + side)
The larger the value, the brighter the image. The smaller the value, the darker the image. The set value is displayed on the screen.

Effective Subjects and Set Values

■ + (positive) compensation

- Printed matter comprising black text on whitish paper
- Backlighting
- Bright scenes or strong reflected light such as ski slopes
- When the sky accounts for a large area in the screen

■ - (negative) compensation

- People illuminated by a spotlight, in particular, against dark background
- Printed matter comprising white text on blackish paper
- Weak reflecting bodies such as evergreen trees or darkish leaves

■ Backlight correction (+1.3, fixed)

- When the background is bright and the subject is dark
- When subjects (people) have a light source such as the sun to their backs

Memo • The backlight correction setting can be made in the [], [], and [] modes.

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Taking Movies

This mode is for taking movies. Voice can also be recorded.

1 Set the mode dial to []:

2 Fully press the shutter button.

The photographing of the movie will start. Pressing the shutter button down fully one more time will end the photographing of the movie, and record the image onto the SD card.

Movie recording time

Movies can be recorded on the SD card for the following approximate times.

Quality	Size	MP4	H.264
★★★	320 x 240	30 sec.	50 sec.
★★		45 sec.	120 sec.
★		60 sec.	180 sec.



After photographing and while the image is being recorded onto the SD card, the viewfinder LED will light in red. While the viewfinder LED is lit red, do not open the battery/SD card cover, nor remove the battery or SD card. Doing so might damage the SD card or destroy the data of the SD card.



- Battery may wear out faster when taking movies in the [] mode than in the still picture photography mode.
- Flash photography is not possible in the [] mode.
- The sound of the lens might enter the audio when taking movies.
- Be careful not to allow your finger to touch the microphone of the camera when taking movies.
- It takes longer to record movies to the SD card than still photographs.
- There is a countdown at the lower right portion of the LCD monitor of the displayed remaining photography time.

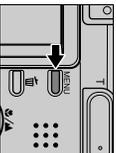
Changing the Settings of the Photography Menu (Picture)

This sets the what kind of basic settings are used when taking pictures in the photography mode. The setting is maintained when the power is turned off or when Auto OFF is activated.

1 Set the mode dial to one of the photography modes.

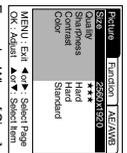
2 Press the MENU button.

[Picture] of the Photography Menu is displayed.



3 Select the setting item with the ▲ ▼ buttons and press the OK button.

The setting values of the selected setting items are displayed.



Example: When [Size] has been selected.

- page 47
- page 48
- page 48
- page 49

• There is no (sharpness) setting in the [] mode.

4 Select the value to be set with the ▲ ▼ buttons and press the OK button.

The setting will be stored.



5 Press the MENU button to close the photography menu.

The camera will be ready to take photographs.



Size

This sets the size of the image that will be photographed.
Change the setting to suit the use of the image and the free capacity of the SD card.

1 Select [Size] from the [Picture] of Photography Menu with the ▲ ▼ buttons, then press the OK button.

The setting value is displayed.

2 Select the picture size with the ▲ ▼ buttons and press the OK button.

The setting will be stored.
[Still picture]
2560 x 1920 pixel
2048 x 1536 pixel
1280 x 960 pixel
640 x 480 pixel

[Movie]
320 x 240 pixel
160 x 120 pixel

Possible number of shots (Still picture)

Taking a single photograph may not decrease the possible number of shots or may decrease it by 2 because a different amount of data is recorded depending on subjects.

Image size	Quality	SD Card capacity				
		8MB	16MB	32MB	64MB	128MB
5M 2560 x 1920 pixel	***	2	6	13	27	55
	**	4	10	22	46	93
	*	9	20	42	86	174
3M 2048 x 1536 pixel	***	4	10	22	46	93
	**	8	17	36	74	150
	*	15	34	72	149	301
1.2 1280 x 960 pixel	***	9	20	42	86	174
	**	15	34	72	149	301
	*	28	60	126	258	522
0.7 640 x 480 pixel	***	31	69	145	298	602
	**	48	100	210	430	870
	*	91	181	379	775	1566

*** Fine ** Normal * Basic
See "Taking Movies" (page 45) for information about movies.



Changing the Settings of the Photography Menu [Picture] (Continued)

Quality

This sets the quality (i.e., compression rate) at which the photograph is taken.

1 Select [Quality] from the [Picture] of Photography Menu with the ▲ ▼ buttons, then press the OK button.

The setting value is displayed.

2 Select the quality with the ▲ ▼ buttons and press the OK button.

The setting will be stored.
*** : Low compression rate (High image quality)
** : Normal
* : High compression rate

Sharpness

This sets the sharpness of the image that will be photographed.
This setting cannot be made in the movie mode.

1 Select [Sharpness] from the [Picture] of Photography Menu with the ▲ ▼ buttons, then press the OK button.

The setting value is displayed.

2 Select the setting value with the ▲ ▼ buttons and press the OK button.

The setting will be stored.
Hard : Hard touch
Normal : Normal touch
Soft : Soft touch





Contrast

This sets the difference between the bright and dark portions of the image that will be photographed.

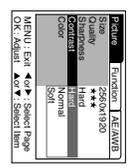
- 1 Select [Contrast] from the [Picture] of Photography Menu with the ▲ ▼ buttons, then press the OK button.

The setting value is displayed.

- 2 Select the setting value with the ▲ ▼ buttons and press the OK button.

The setting will be stored.

Hard : Increases the contrast.
 Normal : Set the contrast automatically.
 Soft : Decreases the contrast.



Color

This sets the color of the image that will be photographed.

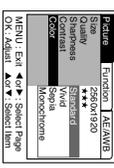
- 1 Select [Color] from the [Picture] of Photography Menu with the ▲ ▼ buttons, then press the OK button.

The setting value is displayed.

- 2 Select the setting value with the ▲ ▼ buttons and press the OK button.

The setting will be stored.

Standard : Color
 Vivid : Bright colors
 Sepia : Sepia
 Monochrome : Black-and-white



Changing the Settings of the Photography Menu (Function)

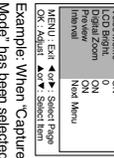
- 1 Set the mode dial to one of the photography modes.

- 2 Press the MENU button and select the [Function] setting with the ► button.

[Function] of the Photography Menu is displayed.

- 3 Select the setting item with the ▲ ▼ button and press the OK button.

The setting values of the selected setting items are displayed.



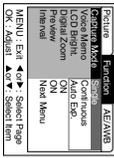
Example: When "Capture Mode" has been selected.

- ➡ page 51
- ➡ page 51
- ➡ page 52
- ➡ page 52
- ➡ page 53
- ➡ page 54

Memo • The setting items of [] mode are the two of [LCD Bright] and [Digital Zoom].

- 4 Select the value to be set with the ▲ ▼ buttons and press the OK button.

The setting will be stored.



- 5 Press the MENU button to close the photography menu.

The camera will be ready to take photographs.



Capture Mode

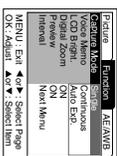
This sets the recording method at the time of taking pictures.

- 1 Select [Capture Mode] from the [Function] of Photography Menu with the **▲▼** buttons, then press the OK button.

The setting value is displayed.

- 2 Select the setting value with the **▲▼** buttons and press the OK button.

The setting will be stored.



Single : Takes photographs one at a time.
 Continuous : Permits continuous photography of 3 pictures max. at the fastest interval of 0.5 seconds.
 Auto Exp. : Effective when it is difficult to determine the exposure for continuous photography with exposure at the 3 levels of 0, -0.7, +0.7 with automatic shifts of 2/3 EV.

Memo • In continuous photography, releasing the shutter button before 3 photos have been finished will end the photography at that point.

Voice Memo

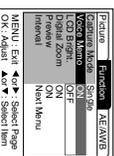
A voice memo can be recorded for 10 seconds immediately following still image photography.

- 1 Select [Voice Memo] from the [Function] of Photography Menu with the **▲▼** buttons, then press the OK button.

The setting value is displayed.

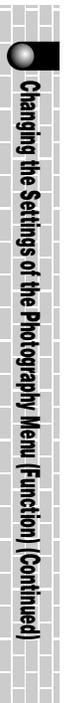
- 2 Select either [ON] or [OFF] with the **▲▼** buttons and press the OK button.

The setting will be stored.



ON : Records a voice memo at the time of photography.
 OFF : Does not record a voice memo at the time of photography.

Memo • A voice memo can also be recorded at the time of image playback.
 "Recording Voice Memos" ➔ page 73



Changing the Settings of the Photography Menu (Function) (Continued)

LCD Bright

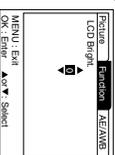
Select a brightness level for the LCD monitor.

- 1 Select [LCD Bright.] from the [Function] of Photography Menu with the **▲▼** buttons, then press the OK button.

The LCD brightness setting screen is displayed.

- 2 Adjust the brightness with the **▲▼** buttons.

The LCD becomes darker with the **▼** button and brighter with the **▲** button. The adjustment range is from -5 to +5 in 11 steps.



- 3 Check the settings and press the OK button.

The camera will return to the [Function] of photography menu.

Digital Zoom

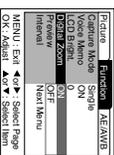
Digital processing of the center portion of the screen permits even more enlargement. Using a combination of 3 times optical zoom and 4 times digital zoom permits the subject to be photographed and enlarged to a maximum of 12 times of original size. Pixel interpolation technology permits the image to be recorded at the set number of recording pixels also at the time of digital zoom.

- 1 Select [Digital Zoom] from the [Function] of Photography Menu with the **▲▼** buttons, then press the OK button.

The setting value is displayed.

- 2 Select either [ON] or [OFF] with the **▲▼** buttons and press the OK button.

The setting will be stored.



ON : Uses digital zoom.
 OFF : Does not use digital zoom.

Preview

This sets whether or not to display the photographed image on the screen immediately after the picture is taken.
This is effective in checking the composition and brightness of the photographed image. To cancel, press the shutter button halfway down.

1 Select [Preview] from the [Function] of Photography Menu with the ▲▼ buttons, then press the OK button.

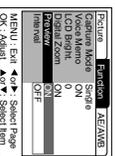
The setting value is displayed.

2 Select either [ON] or [OFF] with the ▲▼ buttons and press the OK button.

The setting will be stored.

ON : Displayed when images are being recorded on the SD card.

OFF : Does not display.



Changing the Settings of the Photography Menu (Function) (Continued)

Interval

This automatically photographs at a fixed interval for the number of set cycles. It is effective when [@] is set with the ► button.

1 Select [Interval] from the [Function] of Photography Menu with the ▲▼ buttons, then press the OK button.

The interval setting screen is displayed.

2 Select the interval and time with the ▲▼ buttons. Select the value to be set with the ▲▼ buttons and press the OK button.

The setting will be stored.

1Min. : Photographs at a 1-minute interval.

3Min. : Photographs at a 3-minute interval.

10Min. : Photographs at a 10-minute interval.

60Min. : Photographs at a 60-minute interval.

Number of photographs : Can be set from 2 to 99 times.



Memo • The number of photographs that can be taken will differ depending on the capacity of the SD card, the image settings, and other factors.
• During the interval between one photograph and another, the viewfinder-LED flashes red and the camera power is automatically turned off.

Changing the Settings of the Photography Menu [A/EAWB]

1 Set the mode dial to one of the photography modes.

The [A/EAWB] menu will not be displayed when [Q] or [P] is selected.

2 Press the MENU button and select the [A/EAWB] setting with the **▶** button.

[A/EAWB] of the Photography Menu is displayed.

3 Select the setting item with the **▲** **▼** button and press the OK button.

The setting values of the selected setting items are displayed.

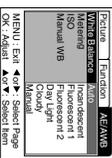


Example: When "White Balance" has been selected.

Warning • There is no [ISO] setting in the [A], [P], [S], and [M] modes.

4 Select the value to be set with the **▲** **▼** buttons and press the OK button.

The setting will be stored.



5 Press the MENU button to close the photography menu.

The camera will be ready to take photographs.

Changing the Settings of the Photography Menu [A/EAWB] (Continued)

White Balance

This sets the white balance when photographing under a variety of lighting conditions and permits photographs to be taken that approach the conditions that are seen by the human eye.

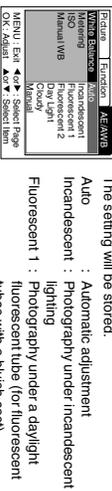
"White Balance" ⇨ "Glossary" page 109

1 Select [White Balance] from the [A/EAWB] of Photography Menu with the **▲** **▼** buttons, then press the OK button.

The setting value is displayed.

2 Select the setting value with the **▲** **▼** buttons and press the OK button.

The setting will be stored.



- Auto : Automatic adjustment
- Incandescent : Photography under incandescent lighting
- Fluorescent 1 : Photography under a day/light fluorescent tube (for fluorescent tubes with a bluish cast)
- Fluorescent 2 : Photography under a day/light fluorescent tube (for fluorescent tubes with a reddish cast)
- Day Light : Outdoor photography
- Cloudy : Photography under a cloudy sky
- Manual : Photography with a Manual WB (⇨ page 56)

Metering

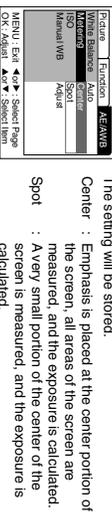
This sets the metering method for calculating the exposure.

1 Select [Metering] from the [A/EAWB] of Photography Menu with the **▲** **▼** buttons, then press the OK button.

The setting value is displayed.

2 Select the setting value with the **▲** **▼** buttons and press the OK button.

The setting will be stored.



- Center : Emphasis is placed at the center portion of the screen, all areas of the screen are measured, and the exposure is calculated.
- Spot : A very small portion of the center of the screen is measured, and the exposure is calculated.

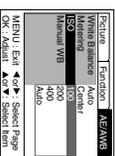
ISO

This sets the sensitivity for taking pictures. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but there will be more graininess in the image.

- 1 Select [ISO] from the [A/E/WB] of Photography Menu with the **▲** **▼** buttons, then press the OK button.

The setting value is displayed.

- 2 Select the setting value with the **▲** **▼** buttons and press the OK button.



The setting will be stored.

100 : Equivalent to ISO100

200 : High-sensitive photography equivalent to ISO200

400 : High-sensitive photography equivalent to ISO400

Auto : Automatic setting in the range of ISO 100 to 200 (Selection is permitted only when set to the [PRG] mode.)

Changing the Settings of the Photography Menu [A/E/WB] (Continued)

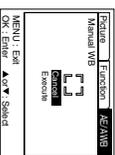
Manual WB

This manually sets the white balance and stores it. Use of this is convenient when the white balance does not offer a good match.

- 1 Select [Manual WB] from the [A/E/WB] of Photography Menu with the **▲** **▼** buttons, then press the OK button.

The Manual WB settings screen is displayed.

- 2 Determine the subject (such as a white plate or paper) that will be used to set the white balance.



- 3 Select the [Execute] with the **▲** **▼** buttons and press the OK button.

The setting will become definite and the camera will return to the [A/E/WB] of photography menu.

Playing Back Photographed Images

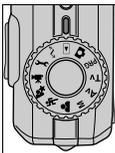
You can play back the photographed images on an LCD monitor.

● Before starting

Insert the SD card into the camera (▶ page 24) and turn on the power.

1 Turn the mode dial to []:

The last image appears on screen. Adjust the brightness if the LCD monitor is too light or too dark.
"LCD Bright." ▶ page 52



2 Turn the search dial to feed forward or feed in reverse.

Turn up : Reverse feed
Turn down : Forward feed



Playing Back/Deleting Photographed Images

Playing Back/Deleting Photographed Images

- Playing Back Photographed Images
- Displaying Image Information
- Displaying a List of Images (Thumbnail Display)
- Displaying Images Enlarged
- Playing Back Movies
- Changing the Playback Menu Settings
- Protecting Images
- DPOF Settings
- Recording Voice Memos
- Erasing Images



Additional Information

Other Useful Information

Connecting to the PC

Playing Back/Deleting Photographed Images

Taking Photographs

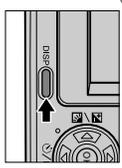
Getting Ready

Preface

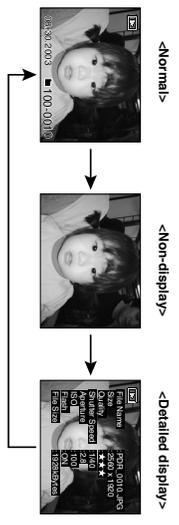
Displaying Image Information

You can switch the state of the information display when playing back images.

- 1 Turn the mode dial to [].
- 2 Select the image that you would like to enlarge with the search dial.
- 3 Press the DISP button.



Each press of the DISP button switches the information display state in the following order:



Memo

- In the enlarged display, the display is switched between normal and non-display.
- The condition of the information display cannot be switched with movies.

Displaying a List of Images (Thumbnail Display)

Display a list of images reduced in size on the screen. Up to nine images can be displayed in the list. This manual refers to display of images reduced in size as [Thumbnail display]. This function is handy when you wish to select the desired image when you have taken lots of images.

- 1 Turn the mode dial to [].
The last image appears on the LCD monitor.
- 2 Press the W (Wide) button.



The images are displayed in the thumbnail display. Images that have been selected with the buttons or the search dial will be enclosed by a green frame. When there are ten or more images, scroll the screen with the buttons or the search dial.

Memo

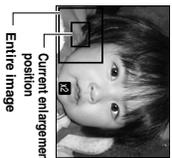
- Even when multiple folders exist within an SD card, the images of all of the folders can be displayed as thumbnails by using the buttons or the search dial.

To display a selected thumbnail image at regular size:
Select the image with the buttons or the search dial, and press the OK button or T (Tele) button. The selected image is displayed at the regular size.

Displaying Images Enlarged

Images that are being played back can be enlarged and displayed in 2 levels of 2 times and 4 times enlargement.

- 1 Turn the mode dial to [].
The last image appears on the LCD monitor.
- 2 Select the image that you would like to enlarge with the search dial.
- 3 Press the T (Tele) button.



The image is enlarged 2 times and displayed. When the image is enlarged and displayed, 2 frames are displayed on the screen.

The white frame indicates the entire image, while the green frame indicates the position that is currently displayed enlarged on the screen.

One more press of the T (Tele) button enlarges the image 4 times and displays it.

Pressing the W (Wide) button displays the image one step smaller.

You can move the position to display enlarged by pressing the   buttons. Adjust the position to display enlarged by viewing the position of the frame to be displayed on screen.



Playing Back Movies

You can play back movies recorded on the camera. You can also play back voice.

- 1 Turn the mode dial to [].
The last image appears on the LCD monitor.
Adjust the brightness if the LCD monitor is too light or too dark.
LCD Bright  page 52
- 2 Select the desired movie with the search dial.
You can also select the desired movie from the thumbnail display ( page 62).
- 3 Press the OK button.

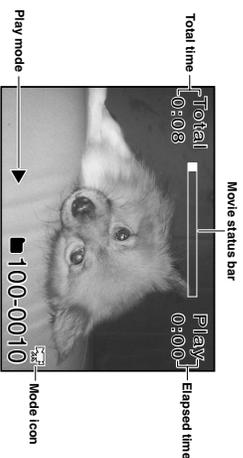


This plays back the movie you selected.
A press of the  /  buttons during playback allows fast forward play/fast reverse play.

Memo • Movies cannot be displayed rotated or enlarged.

LCD Monitor Display During Movie Playback

Text, numbers, icons and other information displayed on the screen differ according to the current settings.





■ **To stop movie playback**

Press the **▼** button.
This stops playback and returns to the start of the movie.

■ **To pause movie playback**

Press the **▲** button.
This pauses movie playback.
To cancel pause, press the **▲** button again.

▶ Memo • Turning the search dial during a pause, feeds the movie forward or backward, respectively, one frame at a time. Turning down feeds the movie forward, turning up feeds the movie backward.

■ **Button Operations**

	During Playback	During a Pause	During a Stop
▶ button	Fast Forward Play Each press of the ▶ button moves the operation one step in the sequence of 2 times fast forward play, and regular play.	Fast Forward Play Each press of the ▶ button moves the operation one step in the sequence of 2 times fast forward play, and regular play.	/
▲ button	Reverse Play Each press of the ▲ button moves the operation one step in the sequence of reverse play, 2 times last reverse play, and 4 times last reverse play.	Reverse Play Each press of the ▲ button moves the operation one step in the sequence of reverse play, 2 times last reverse play, and 4 times last reverse play.	/
▼ button	Pause	Playback	The previous image is displayed.
OK button	The screen returns to the start of the movie.		The next image is displayed.

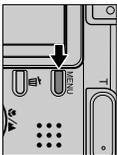


Changing the Playback Menu Settings

In the playback mode ([**▶**]), set which settings are to be used for playback. The setting still remains in memory after the power is turned off manually or by the Auto OFF function.

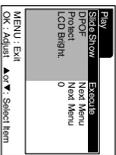
1 Turn the mode dial to [**▶**].

2 Press the **MENU** button.



The playback menu appears.

3 Select the setting item with the **▲** **▼** buttons, and press the **OK** button.



The setting screen for the item you selected appears.

- Slide Show ⇨ page 67
- DPOF ⇨ page 70
- Protect ⇨ page 68
- LCD Bright: ⇨ page 52

4 Select the values to be set with the **▲** **▼** buttons, and press the **OK** button.

The setting will be stored.

5 To exit the playback menu, press the **MENU** button.

The camera is ready for playback.



Slide Show

Automatically plays back still images in order one image at a time.

1 Select [Slide Show] with the **▲ ▼** buttons from the playback menu, and press the **OK** button.

The slideshow starts and displays the next image every three seconds (approx.). To stop the slideshow, press the **OK** button. The image is displayed on screen when you press the **OK** button.

- The Auto OFF function does not operate during slideshow.
- All images in the folder are automatically played back.
- The movie is unrepeatable.

DPOF

Set the number of prints and date display in DPOF format (☞ "Glossary" page 109) to images that you want to print (develop). (This function is available for still images only.) You can print images easily just by taking the SD card to a print shop.

"DPOF Settings" ☞ page 70

Protect

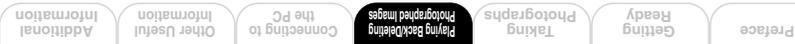
Set the data to read-only to prevent images from being erased by mistake. This is called the protect function.

"Protecting Images" ☞ page 68

LCD Bright

Adjust the brightness of the LCD monitor. This function does not adjust the brightness of recorded images.

"LCD Bright" ☞ page 52



Protecting Images

The data is set to read-only so that the images are not erased by mistake. This is called "Protect".

- Formatting the SD card undoes the protection, and erases all images.
- To protect the entire SD card, see "Write Protection" (☞ page 15).

Protecting Images

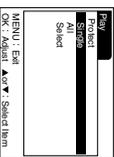
● Before starting

To protect only one image, display the image that is to be protected.

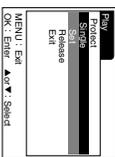
1 Select [Protect] with the **▲ ▼** buttons from the playback menu, and press the **OK** button.

The protect setting screen appears.

2 Select [Single] or [All] with the **▲ ▼** buttons, and press the **OK** button.



3 Select [Set] with the **▲ ▼** buttons, and press the **OK** button.



Protect is executed and the camera returns to the play mode.

The protect icon (🛡️) (yellow) is displayed with protected images. When [All] has been selected, (🛡️) (yellow) is displayed with all the images.

- Even when multiple folders exist within an SD card, the images of all of the folders can be selected by using the **▲ ▼** buttons or the search dial.





Canceling the Protection

● Before starting

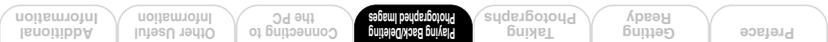
To cancel Protect for only one image, display the image that is to have Protect cancelled.

- 1 Select [Protect] with the ▲ ▼ buttons from the playback menu, and press the OK button.
- 2 Select [Single] or [All] with the ▲ ▼ buttons, and press the OK button.
- 3 Select [Release] with the ▲ ▼ buttons, and press the OK button.

Cancellation of protect is executed and the camera returns to the play mode.

Protecting multiple images simultaneously

- 1 Select [Protect] with the ▲ ▼ buttons from the playback menu, and press the OK button.
- 2 Select [Select] with the ▲ ▼ buttons, and press the OK button.
The images are displayed in the thumbnail display.
- 3 Select the image you want to protect with the ▲ ▼ buttons, and press the DISP button.
The protect icon (🛡️) (yellow) is displayed with protected images. This procedure is repeated to select multiple images. Selecting a protected image and pressing the DISP button again will cancel the protection.
- 4 Press the OK button.
Protect and the cancellation of Protect are executed and the camera returns to the play mode.



DPOF Settings

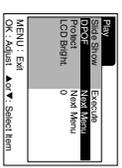
Set the number of prints and date display in DPOF format (📄 "Glossary" page 109) to images that you want to print (develop). (This function is available for still images only.) You can print images easily just by taking the SD card to a print shop. You can print on your printer at home if the printer supports DPOF.

Setting the DPOF format

● Before starting

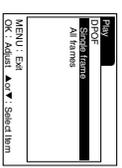
To set DPOF for only one image, display the image that is to have DPOF set.

- 1 Press the MENU button and select [DPOF] with the ▲ ▼ buttons from the playback menu, and press the OK button.



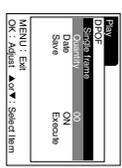
- 2 Select [Single frame] or [All frames] with the ▲ ▼ buttons, and press the OK button.

The DPOF setting screen appears.
Single frame : Sets DPOF for each individual image.
All frames : Sets DPOF for all images at once.



- 3 Select [Quantity] with the ▲ ▼ buttons, and press the OK button.

This displays the number of prints setting screen.



- 4 Set the number of prints with the ▲ ▼ buttons, and press the OK button.

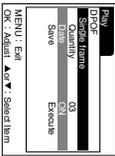
You can set up to 99 prints for each image.





5 Select [Date] with the ▲ ▼ buttons, and press the OK button.

The date and time setting screen appears.



6 Select the date to [ON] or [OFF] with the ▲ ▼ buttons and press the OK button.

ON : The date of the photograph will also be printed.
OFF : The date of the photograph will not be printed.

7 Select [Save] with the ▲ ▼ buttons, and press the OK button.

8 Select [Execute] with the ▲ ▼ buttons, and press the OK button.

This creates a file containing the DPOF information, and when the operation is finished, the screen returns to the playback screen.
The protect icon () (red) is displayed with protected images.



- The date that is printed on the photo is the date set on the camera. To print the correct date on the photo, mark the date setting on the camera before you photograph the image.
- "Date/Time" ⇨ page 97
- Please note that some types of printers do not support DPOF.
- Even when multiple folders exist within an SD card, the images of all of the folders can be selected by using the ▲ ▼ buttons or the search dial.



• You can specify up to 99 prints for each image. Also, you can specify up to 999 images for printing on a single SD card. Note, however, that the maximum number of prints that can be specified in a single SD card is limited to 1,500.



DPOF Settings (Continued)

Canceling the DPOF Settings

● Before starting

To cancel the DPOF settings of only one image, display the image for which the DPOF settings are to be canceled.

1 Press the MENU button and select [DPOF] with the ▲ ▼ buttons from the playback menu, and press the OK button.

2 Select [Single frame] or [All frames] with the ▲ ▼ buttons, and press the OK button.

3 Select [Quantity] with the ▲ ▼ buttons, and press the OK button.

This displays the number of prints setting screen.

4 Select [00] with the ▼ button, and press the OK button.

5 Select [Save] with the ▲ ▼ buttons, and press the OK button.

The screen returns to the DPOF setting screen.

6 Select [Execute] with the ▲ ▼ buttons, and press the OK button.

Recording Voice Memos

A maximum of 10 seconds of audio can be recorded like a memo for photographed still images.

1 Turn the mode dial to [] .
The last image appears on the LCD monitor.

2 Select the image with the search dial.
You can also select images from the thumbnail display (▶ page 62).

3 Fully press the shutter button.



[VOICE RECORDING] is displayed on the screen and recording starts. Fully press the shutter button one more time during recording, or wait for 10 seconds. [VOICE RECORD END] will be displayed and the recording will end. A [] icon is displayed with images that have been recorded with a voice memo.

■ Playing back voice memos

A press of the OK button displays [VOICE PLAYBACK] and plays back the voice memo.

■ Stopping voice memos

Press the shutter button.

■ Recording over voice memos

Pressing the shutter button fully starts the recording and one more full press stops the recording. Recording over the voice memo is permitted any number of times.

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Erasing Images

Erase images. Note, however, that protected images (▶ page 66) or images on a write-protected SD card (▶ page 15) cannot be erased. Note that the cleared images cannot be restored.

Erasing one image/Erasing all images

1 Set the mode dial to either the photography mode or the playback mode.

2 If you selected [] , select the image you want to erase with the search dial.

If you selected photography mode, the last image will be erased.

3 Press the  erase button.

The deletion menu will be displayed.



4 Select [Single] or [All] with the  buttons, and press the OK button.

A deletion check screen will appear.

Single : Erases the selected image or the last image.

All : Erases all of the images within the SD card except for the protected images.

Select : Erases a number of selected images. *Erasing selected images (▶ page 75)

5 Select [Execute] with the  buttons, and press the OK button.

This erases the image, and the camera returns to the mode selected on the mode dial. To not erase, select [Cancel], and press the OK button.

When [Single] has been selected and [PROTECTED] appears on the screen, please cancel the protect function (▶ page 69), or cancel the DPOF settings (▶ page 72).

Memo • Even if you take photographs after erasing an image, the are assigned serial numbers from the next number from the very last number assigned before the image was erased.

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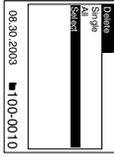
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Erasing selected images

This erases a number of selected images:

- 1 Set the mode dial to either the photography mode or the playback mode.**
.....
- 2 Press the  erase button.**
The deletion menu will be displayed.
.....
- 3 Select [Select] with the  button, and press the OK button.**
The images are displayed in the thumbnail display.

.....
- 4 Select the image you want to erase with the , , , and  buttons, and press the  erase button.**
The  icon will be displayed. One more press of the erase button will cancel the operation. Repeat this procedure and select all the images that you wish to erase.

.....
- 5 Press the OK button.**
This erases the selected images and returns the unit to the various modes.
.....



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- Connecting to the PC
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- Connecting to a Macintosh
- Changing the Image Size
- Copying Computer Images to the Camera
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About Your Software

This Instruction Manual describes how to install the supplied software applications and provides a brief explanation of how to use them. For the detailed methods of using them, consult the Help files of the individual applications.

This Instruction Manual is written under the premise that the reader has an understanding of basic computer operations. For the basic details on your personal computer, see the instruction manuals that come with the computer and the operating system.

About the Supplied Software

The supplied CD-ROM includes the following software applications:

- ACDSee™ (image viewing software)
This software allows you to view, process, or modify photographed images on the PC. For the detailed operation methods, consult the Help in the application.
Toshiba Corporation will not assure operation of ACDSee when installed on a device other than this camera. For installation and operation on a different device, contact the Online Support of ACD Systems.
- ACD Systems Online Support: <http://www.acdsystems.com/English/Support/index.htm>
- DirectX® (video playback software)
Install this software when video images captured with a camera cannot be played back using Windows Media® Player.
- USB driver (for Windows 98 only)
Install this software when connecting this camera to the PC using the supplied USB cable. This driver is exclusively used for Windows 98. If using Windows 2000, Windows Me, Windows XP or a Macintosh, use the standard driver supplied with it.
- Service & Support file
This file includes information on service and support.
We recommend that you save this file in your PC in case you lose this manual.
"Global Contacts" ⇨ page 110

Software and Instruction Manual

- Copying or duplication of the supplied software applications or Instruction Manual in part or in whole is not allowed without the prior permission of Toshiba Corporation.
- Use of the supplied software applications and Instruction Manual is allowed only on one personal computer.
- Toshiba Corporation is not liable whatsoever for any damages to the user or a third party, as a result of use of a device with the supplied software applications and Instruction Manual.
- The screens for the PC in the Instruction Manual are merely examples. These may differ from actual screens on your PC. Toshiba Corporation is not liable whatsoever for any compensation arising from errors in this Instruction Manual.

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Connecting to the PC

By connecting this camera to the PC, you can transfer images recorded on SD card to the PC in order to modify or send to another person through the Internet.

Minimum System Requirements

We recommend that the computer system, of the computer you connect your camera to, conforms to the following requirements. Before making a connection, check that all the items have been satisfied.

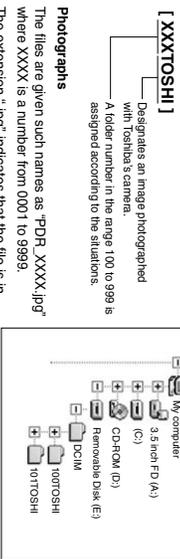
	Windows PC	Macintosh
CPU	Pentium® processor or higher	Power PC G3 processor 266 MHz or higher
OS	Windows 98/2000/MaXP Pre-installed PC	Mac OS 9.0 or later (Mac OS 9.2 or later recommended) Mac OS X from 10.1.3 to 10.1.5, 10.2, 10.3
Memory	64 MB or more	20 MB or more recommended
Free space on hard disk	(Additional space necessary to store images.)	
Color monitor	256 colors, 800 x 600 dots min. (327,000 colors or more recommended)	
Necessary devices	CD-ROM drive, USB port	

When using Mac OS 9.0 or 9.1, you need to install CarbonLib 1.5 or later. You can download the program from the web site of Apple Computer, Inc.

*This does not assure that all PCs with the minimum requirements will connect properly.

File Structure

When connected with a PC, folders of images photographed with this camera are displayed as shown to the right. (When being displayed in Windows)



Photographs

The files are given such names as "PDR_XXXX.jpg" where XXXX is a number from 0001 to 9999.

The extension ".jpg" indicates that the file is in JPEG format (☞ "Glossary" page 109).

Images photographed with this camera are saved in Exif format (☞ "Glossary" page 109).

Movies

The files are given such names as "PDR_XXXX.avi" where XXXX is a number from 0001 to 9999. The extension ".avi" indicates that the file is in AVI format (☞ "Glossary" page 109).

Sounds

The files are given such names as "PDR_XXXX.wav" where XXXX is a number from 0001 to 9999. The extension ".wav" indicates that the file is in WAV format (☞ "Glossary" page 109).

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Connecting to a Windows PC

The PC must have Windows 98, 2000, Me, or XP installed. Be careful that how to install the USB driver differs depending on the Windows versions.

The data saved to the SD card may be damaged if the power to the camera is turned OFF during image transfer. We recommend that you use the AC adapter when connecting the camera to the PC.

1 Insert the supplied CD-ROM into the CD-ROM drive.

The language selection window appears.



2 Click the [ENGLISH] icon.

3 Click the [ACDSee] icon.



Setting up is started.

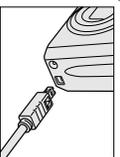
Follow the shown instructions to install ACDSee.

When the installation is completed, the ACDSee icon appears on the desktop.

With using Windows 98

Click the [ACDSee] icon from the supplied CD-ROM, and follow the on-screen instructions to perform the installation.

4 Turn the mode dial to [P], then connect the USB cable.



Connect one end of the USB cable to the USB port on the PC, and the other end to the DIGITAL terminal on this camera.

Connect the USB cable so that the side of the USB cable plug marked [A] faces the top of the camera.

Follow the on-screen instructions to install the standard driver of each OS.

Restart your PC after installing.

The Device Detector starts up when the PC is restarted.

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5 Mark the [Copy images to hard drive] and [Launch ACDSee] checkboxes in the screen that is displayed, and click [Next].



To merely view the image without copying it to the PC, unmark the [Copy images to hard drive] checkbox, and mark only the [Launch ACDSee] checkbox.

6 Specify the directory and name of the folder to save to, and click [Next].



Copying images is started.

Enter the name of the folder to save the copying images to (A new folder will be created).

The location at which the folder will be created is displayed. (Clicking [Browse] permits specification of an existing folder.)

To delete an image from the camera's SD card after a copying images is completed, mark the [Delete images from memory card after copying them] checkbox.

When the copying images is completed, ACDSee starts up, and the images in the folder that is specified to save to are displayed. The file names of the copied images are indicated as "date+3-digit number".

Plane

- When the camera is connected to the PC, the camera is displayed as a removable disk.
- With the USB driver installed, simply reconnecting the USB cable causes the PC to automatically identify this camera so that images can be transferred.
- When in connection with the PC, Auto OFF function does not operate.



Connecting to a Windows PC (Continued)

Viewing Movies

Double-click the movie file (AVI file) displayed at ACDSee™.
This starts up the movie playback software application and the movie is played back.

■ Installing DirectX®

Please install DirectX, if Windows Media® Player does not playback movies recorded by this camera.

1) Insert the supplied CD-ROM into the CD-ROM drive.

The language selection window appears.

2) Click the [ENGLISH] icon.

3) Click the [DIRECTX] icon.

Follow the shown instructions to install DirectX.



Printing the Date

1 Select the image you want to print from the images displayed by ACDSee, and click [Print] in the [File] menu.

2 Set the printer, number of prints, and other information, and click [Print].

The [Print Setup] screen appears.

3 Mark the [Image original date] checkbox, and click [OK].



Printing is started.
Specify where you want to place the image on the paper.
If the [Image original date] checkbox is marked, the date will be printed at the bottom right of the image.
Information whose checkbox is marked will be printed.



Printing Layouts

Two or more images can be laid out on paper and printed with comments by using the sample forms already provided.

1 Click [FotoSlate] in the [Plug-ins] menu.



The [Untitled - FotoSlate] screen appears.

2 Click [Add images] in the [File] menu, and select the desired image from the screen that is displayed.

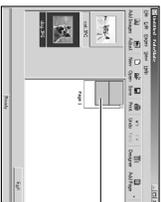


The selected image is displayed in the area on the left side of the [Untitled - FotoSlate] screen.

3 Click [Add page] in the [Pages] menu, and select the desired layout from the [Add page] screen that are displayed.

The selected sample form is displayed in the area on the right side of the [Untitled - FotoSlate] screen.

4 Drag-and-drop the image in the sample form to place the image.



Images placed in layouts can be edited by double-clicking the image. Images called up to this screen are copies made from the original image, and can be edited or further processed without any effect on the original image.

5 Click [Print] in the [File] menu.

Printing is started.
To save the layout you have made, click [Save].

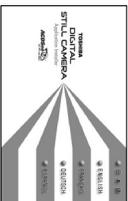


Connecting to a Macintosh

The Macintosh must have MAC OS described on page 79 installed. Because this camera supports the USB Mass Storage Class, the applicable Mac OS does not require the installation of the USB driver.

 The data saved to the SD card may be damaged if the power to the camera is turned off during image transfer. We recommend that you use the AC adapter when connecting the camera to the PC.

1 Insert the supplied CD-ROM into the CD-ROM drive.



The language selection window appears.

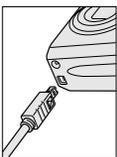
2 Click the [ENGLISH] icon.

3 Click the [ACDSee] icon.



Setting up is started.
Follow the shown instructions to install ACDSee.
When the installation is completed, the ACDSee icon appears on the desktop.

4 Turn the mode dial to [P], then connect the USB cable.



Connect one end of the USB cable to the USB port on the PC, and the other end to the DIGITAL terminal on this camera.
Connect the USB cable so that the side of the USB cable plug marked [Δ] faces the top of the camera.
When the computer recognizes the camera the ACDSee Device Detector starts.





5 Select the location to download the images on the ACDSee Device Detector screen, then mark [Launch ACDSee] and then click [Download].



Copying the images is started. To just copied images to the computer, remove the mark from [Launch ACDSee] then ACDSee does not start. To delete an image from the camera's SD card after copying the image, mark [Delete images from device].

Warning

- When the camera is connected to the PC, the camera is displayed as an 'untitled' disc on the desktop.
- With the USB driver installed, simply reconnecting the USB cable causes the PC to automatically identify this camera so that images can be transferred.
- When in connection with the PC, Auto OFF function does not operate.
- When another USB drive is used at the same time, the SD card in this camera may not be mounted on the desktop. If this happens, connect only this camera to the PC.



Connecting to a Macintosh (Continued)

Viewing Movies

Double-click the movie file (AVI file) displayed at ACDSee.

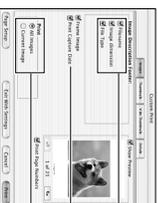
This starts up the movie playback software application and the movie is played back.

Printing the Date

1 Click [Custom Print] in the [File] menu.

The [Custom Print] screen is displayed.

2 Mark [Print Capture Date] on the [Images] tab, and then click the [Print].



Printing is started. Information whose checkbox is marked will be printed.

If the [Print Capture Date] checkbox is marked, the date will be printed at the bottom right of the image. Select whether to print the selected images or all the images in the folder.

Changing the Image Size

ACDSee can be used to reduce the size of images, for example, when sending images attached to e-mail.

1 Click to select the image you want to reduce in size from the images displayed by ACDSee.

When the camera is connected to the P.C. with the USB cable, the camera is displayed as a removable disk. You can directly select images saved on the camera by specifying the removable disk.

2 Click [Edit] in the [Tool] menu.

The edit screen appears.

3 Click [Resize] in the [Edit] menu.

The resize screen appears.

4 Enter the desired number values in the [Width] and [Height] fields, and click [OK].

The resized image is displayed.

If the [Maintain aspect ratio of] checkbox is marked, the image can be resized with the ratio between the horizontal and vertical sides of the image intact.



5 Click [Save as] in the [File] menu.

6 Enter the file name, and click [Save].

This saves the resized image.

Directly resizing the images stored in the camera may prevent the camera from displaying them.

Copying Computer Images to the Camera

You can copy the images stored in your PC to the camera. The movies cannot be copied. This function is not supported on the Macintosh.

1 Connect this camera to the PC using a USB cable.

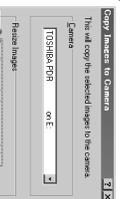
ACDSee is automatically started.

2 Select an image to be copied, then click [Copy to Camera].



3 Select a post-conversion image size, then click [OK].

The image is named "ACDSXXXX.jpg" and is copied to the XXXXACDSE folder on the SD card in the camera.



When copies are made, images are always converted to 640 x 480-pixel images. Images are copied with the original sizes unchanged.

Resultant image sizes differ depending on the original sizes of images to be copied. More than 640 x 480
The image will be converted to 1024 x 768 size. For an image smaller than 1024 x 768, it will be surrounded by a black frame.
640 x 480 or smaller
The 480 or smaller image will be converted to 640 x 480 size. For an image smaller than 640 x 480, it will be surrounded by a black frame.

Memo

- With [Do not resize] selected, this camera may not properly display images, depending on their sizes.
- For details of ACDSee, consult its Help.
- Images taken on other camera types and copied to this camera sometimes cannot be displayed.
- Images transferred or copied originally from the computer cannot be enlarged or rotated.

Disconnecting the Camera from the PC

● Before starting

Please exit all application software that uses images.

■ With Windows 98 installed:

Turn OFF the power of the camera, then remove the USB cable from the PC and the camera.

■ With Windows 2000, Me or XP installed:

Click the [] icon on the task tray located at the bottom right of the PC and then perform operations according to the displayed instructions. After finishing the operations, remove the USB cable from the PC and the camera.

■ With Macintosh installed:

On the desktop drag and drop the folder (untitled) of this camera over the trash icon, then remove the USB cable from the PC and this camera.

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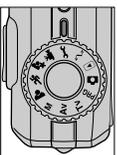
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- Changing the System Settings (Basic)
- Changing the System Settings (Custom)
- LED Color
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Changing the System Settings (Basic)

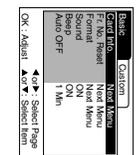
Set your camera's operating environment. This manual refers to this as "set-up". The settings will be saved after the power has been switched off or Auto OFF has been activated.

- 1 Turn the mode dial to [**1**].



[Basic] of the set-up menu is displayed.

- 2 Select the setting item with the **▲** **▼** buttons, and press the OK button.



The setting screens of the selected setting items are displayed.

- 3 Select the values that are to be set with the **▲** **▼** buttons and press the OK button.

When you finish setting, the screen returns to the set-up menu.

- 4 To exit the set-up menu, change the mode dial setting.

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Card Info.

This allows a check of the free capacity of the SD card as well as other information.

- 1 Select [Card Info.] using the **▲ ▼** buttons from [Basic] of the set-up menu, then press the OK button.
- 2 Check the contents and press the OK button.

The screen returns to the set-up menu.

Fr. No. Reset

This creates a new folder. The photographed images are recorded to the newly created folder from number 0001.

- 1 Select [Fr. No. Reset] using the **▲ ▼** buttons from [Basic] of the set-up menu, then press the OK button.
- 2 Select [Cancel] or [Execute] with the **▲ ▼** buttons.
Cancel : Does not reset the file number.
Execute : Resets the file number and creates a new folder.
- 3 Check the setting contents and press the OK button.

The screen returns to the set-up menu.



Changing the System Settings (Basic) (Continued)

Format

This erases all of the images and folders that have been recorded on the SD card. Formatting is not possible when the SD card is in the locked condition. (Page 15)

- Be sure to perform formatting of the SD card with this camera.
- Formatting the SD card also erases the protected images (Page 69). All data other than images are also erased. Before formatting the card, make sure that all the images are unnecessary.
- Be careful, since images that have been erased by formatting cannot return to their original state.
- An SD card having any problem cannot be properly formatted.
- When using a commercially available SD card for the first time, please be sure to format it before use. Also, so as to maintain the maximum capacity of the SD card, we recommend that the SD card be formatted regularly to remove miscellaneous files.

- 1 Select [Format] using the **▲ ▼** buttons from [Basic] of the set-up menu, then press the OK button.

- 2 Select [Execute] with the **▲ ▼** buttons.

The SD card is formatted and the camera returns to [Basic] of the set-up menu. When formatting will not be performed, select [Cancel] and press the OK button.

Sound

This sets whether or not to mute the playback sound of the recorded voice memo.

- 1 Select [Sound] using the **▲ ▼** buttons from [Basic] of the set-up menu, then press the OK button.

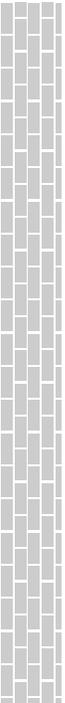
- 2 Select [ON] or [OFF] with the **▲ ▼** buttons.

ON : Does not mute the playback sound of the voice memo.
OFF : Mute the playback sound of the voice memo.

- 3 Check the setting contents and press the OK button.

The screen returns to the set-up menu.





Beep

Set the sound (beep) that is output by the camera during operation.

1 Select [Beep] using the ▲ ▼ buttons from [Basic] of the set-up menu, then press the OK button.

2 Select [ON] or [OFF] with the ▲ ▼ buttons.

ON : Sounds the beep tone.
OFF : Does not sound the beep tone.

3 Check the setting contents and press the OK button.
The screen returns to the set-up menu.

Auto OFF

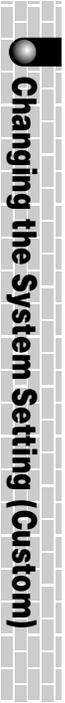
The power is automatically turned OFF to prevent battery wear when no operation is performed on the camera for a fixed period of time. This manual refers to this as the "Auto OFF". In the following procedure, set the time until the camera automatically power OFF. This function does not operate during a slideshow or in the [~] PC mode. To return from the Auto OFF mode to the operation camera mode, turn the power ON again by the POWER button.

1 Select [Auto OFF] using the ▲ ▼ buttons from [Basic] of the set-up menu, then press the OK button.

2 Select the time with the ▲ ▼ buttons.

- 1 Min : When the camera has not been operated, it turns the power OFF after one minute.
- 3 Min : When the camera has not been operated, it turns the power OFF after three minutes.
- 5 Min : When the camera has not been operated, it turns the power OFF after five minutes.

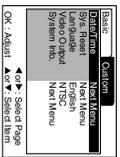
3 Check the setting contents and press the OK button.
The screen returns to the set-up menu.



Changing the System Setting (Custom)

1 Turn the mode dial to [~], and select the [Custom] menu with the ► button.
[Custom] of the set-up menu is displayed.

2 Select the setting item with the ▲ ▼ buttons, and press the OK button.



The settings screens of the selected setting items are displayed.

- Date/Time ⇨ page 97
- Sys. Reset ⇨ page 97
- Language ⇨ page 98
- Video Output ⇨ page 98
- System Info ⇨ page 99

3 Select the values that are to be set with the ▲ ▼ buttons and press the OK button.

When you finish setting, the screen returns to the set-up menu.

4 To exit the set-up menu, change the mode dial setting.





Date/Time

This sets the date and the time.

- 1 Select [Date/Time] using the **▲ ▼** buttons from [Custom] of the set-up menu, then press the OK button.
- 2 Select the setting items with the **◀ ▶** buttons and set the date and the time with the **▲ ▼** buttons.
- 3 Check the setting contents and press the OK button.
The screen returns to the set-up menu.

Sys. Reset

This returns the initial basic settings to the initial condition. The time setting will not change.

- 1 Select [Sys. Reset] using the **▲ ▼** buttons from [Custom] of the set-up menu, then press the OK button.
- 2 Select [Cancel] or [Execute] with the **▲ ▼** buttons.
Cancel : Does not return to the initial settings.
Execute : Returns to the initial settings.
- 3 Check the setting contents and press the OK button.
The screen returns to the set-up menu.



Changing the System Setting (Custom) (Continued)

Language

This sets the language that is displayed on the LCD monitor.

- 1 Select [Language] using the **▲ ▼** buttons from [Custom] of the set-up menu, then press the OK button.
- 2 Select the language with the **▲ ▼** buttons.
English : English
Français : French
Deutsch : German
Español : Spanish
日本語 : Japanese
繁體中文 : Chinese (Traditional)
簡體中文 : Chinese (Simplified)
- 3 Check the setting contents and press the OK button.
The screen returns to the set-up menu.

Video Output

Set the video output system of the video equipment that you are going to connect to the camera.

- 1 Select [Video Output] using the **▲ ▼** buttons from [Custom] of the set-up menu, then press the OK button.
- 2 Select [NTSC] or [PAL] with the **▲ ▼** buttons.
NTSC : NTSC system
PAL : PAL system
- 3 Check the setting contents and press the OK button.
The screen returns to the set-up menu.



System Info.

This displays the firmware version of the camera.

1 Select [System Info.] using the **▲** **▼** buttons from [Custom] of the set-up menu, then press the OK button.

2 Check the contents and press the OK button.
The screen returns to the set-up menu.

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LED Color

This describes the color and state of the viewfinder LED.

Viewfinder LED

Color	State	During power off	During photography	During playback	During connection to a PC
Green	ON	Battery charging in progress	Auto focusing successful	-	While the camera is connected to a PC
	Flashing	-	-	-	USB busy
Red	ON	-	During SD card accessing	During SD card accessing or DPOF file	During SD card accessing
	Flashing	-	Auto focusing failure	-	-
Orange	ON	Battery charging error	During photographic processing Flash charging in progress Zoom initialization in progress	-	Not recognized by the PC, or other status
	Flashing	-	No battery power left Camera malfunction	No battery power left	No battery power left No SD card

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Taking and Playing Back Photographs on a TV

You can take photographs while checking images on the TV or play back images on the TV. Before you can do this, you must connect a TV to your camera. We recommend using an AC adapter at an indoor location, for example, where there is power outlet.

- Before you connect any devices, be sure to turn all connected devices OFF. Connecting a device with the power ON may disrupt the screen or prevent images from being displayed properly.
 - Select the NTSC/PAL system to match the video output system of the video equipment you are going to connect to the camera.
- "Video Output" ⇨ page 98

1 Connect the plug on the supplied AV cable to the AV OUT terminal on the camera.



Images do not appear on the camera's screen when the AV cable is connected to the AV OUT terminal on the camera.

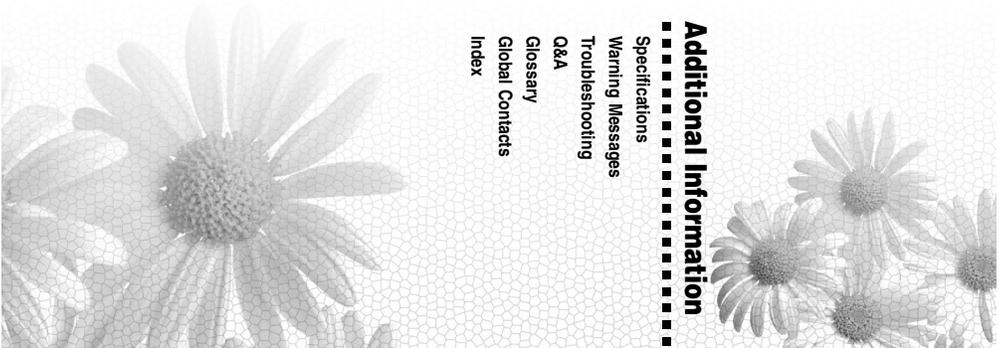
2 Connect the plugs of the AV cable to the video and audio input jacks of the TV.

Images are displayed on the TV.

3 Take or play back the photographs.

The method of operation is the same as taking or playing back photographs. "Taking Photographs" ⇨ page 27, "Playing Back/Deleting Photographed Images" ⇨ page 59

- The image before you take a photograph is a little less clear compared with played back images. (Resolution deteriorates.)
- In the case of the PAL system, images are surrounded by a black frame.



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Specifications

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<p>Pickup elements</p> <p>Sensitivity</p> <p>Lens</p> <p>Focal length</p> <p>Viewfinder</p> <p>Auto-focus</p>	<p>Metering system</p> <p>Exposure control method</p> <p>Exposure compensation</p> <p>Aperture</p> <p>Shutter speed</p> <p>White balance</p> <p>Focal range</p>	<p>Self-timer</p> <p>Flash settings</p> <p>Date/time</p> <p>Automatic calendar function</p> <p>LCD monitor*1</p> <p>Interface</p>	<p>Power supply</p> <p>Recording medium</p> <p>Compressed format</p> <p>Image file format</p> <p>Compatibility rules</p> <p>Operating environment</p>	<p>Dimensions</p> <p>Weight</p>	<p>*1 Very small spots may appear on the LCD monitor even though it has been made using very high-precision technology. This is not a malfunction. The LCD monitor can be used as it is.</p> <p>* The design and specification are subject to change without notice for the purpose of improvement.</p>
<p>1/1.8" CCD sensor (total number of pixels: approx. 5.25 million, number of effective pixels: approx. 5.09 million)</p> <p>Equivalent to ISO 100/200/400/100 to 200</p> <p>3X optical zoom lens F2.8 - F4.7</p> <p>f = 7.2-21.6 mm (equivalent to 35-105 mm on a 35 mm camera)</p> <p>Real image optical zoom viewfinder</p> <p>TTL method AF</p> <p>Focus adjusting range: 0.09 m to infinity (Wide side setting)</p> <p>Detection system: Contrast detection system (frame rate during detection: 30 Hz)</p> <p>Center priority metering, Spot metering</p> <p>Program AE/Shutter speed priority, aperture priority, manual</p> <p>-2.0 EV to +2.0 EV (in 1/3 EV increments)</p> <p>F2.8 to F6.7, automatic selection, manual selection possible 8 to 1/1500 sec.</p> <p>Auto/manual setting selectable (7 modes)</p> <p>Standard: Approx. 80 cm to infinity (both Wide and Tele)</p> <p>Macro: Approx. 9 cm to infinity (Wide side setting), approx. 30 cm to infinity (Tele side setting)</p> <p>Time selectable between 2 seconds/10 seconds/10~2 seconds selectable</p> <p>Firing mode: Auto (automatic in low-brightness conditions)/Fired-eye reduction/Forced Flash/Suppressed Flash</p> <p>Focal range: Approx. 0.2 m to 3.0 m (at sensitivity ISO200)</p> <p>Simultaneously Recorded to image data (Exif file format)</p> <p>Automatically adjusted until the year 2059</p> <p>1.5" CG silicon color LCD (134,400 pixels)</p> <p>DC IN 5V/terminal: 5V/DC</p> <p>AV OUT/DIGITAL Terminal</p> <p>AV OUT: AV cable compatible</p> <p>DIGITAL: USB (Ver. 1.1, Mass Storage Class compatible)</p> <p>Lithium-ion battery or AC adapter</p> <p>External memory: Supports SD card (Up to 512 MB)</p> <p>JPEG compliant</p> <p>Exif Ver. 2.2 compliant, AVI</p> <p>DCF Ver. 1.1 compliant</p> <p>Temperature: +41°F (+5°C) to +104°F (+40°C) (during operation)/-4°F (-20°C) to +160°F (+60°C) (during storage)</p> <p>Humidity: 30% to 80% (during operation), no condensation</p> <p>93 mm x 59 mm x 34 mm (W x H x D) excluding protrusions</p> <p>Approx. 178g (excluding accessories, battery, SD card)</p>					

Warning Messages

The following warning messages and icons are displayed on the LCD monitor:

Display	Meaning
	Fairly consumed. Nearly exhausted.
CARD FULL	No more space on the SD card. Recording is not possible.
NO CARD	No SD card is loaded. SD card is loaded incorrectly.
FRAME NUMBER FULL	The frame number has reached 999-9999.
PROTECTED	The image is write-protected.
FORMAT ERROR	The format of the SD card to copy image data to is incorrect.
PROTECTED CARD	The SD card is write-protected.
THIS CARD CANNOT BE USED	The inserted card is not supported in this camera.
NO IMAGE	No images are recorded to the SD card.
DPOF ERROR	There is a parameter that is not supported in the DPOF setting file.
ERROR***	A camera problem has occurred.
BATTERY COVER OPEN	Battery/SD card cover is open.
CARD ERROR	The SD card has been damaged.
DATE/TIME DATA HAS BEEN LOST	The time setup has returned to the initial value.

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Troubleshooting

When the camera does not operate properly, check the following items besides the warning messages displayed on screen (▶ page 105) and the LED colors (▶ page 100).

Problem	Cause	Remedy	Page
The power cannot be turned ON.	The battery has been exhausted.	Recharge the battery.	22
	The AC adapter plug has been disconnected from a wall outlet.	Plug the adapter into the wall outlet.	22
	The battery has been loaded in incorrect direction.	Load the battery in the correct direction.	20
The battery runs out quickly.	You are using the camera in extremely cold conditions. The battery terminals are dirty.	Put the battery in your pocket or another warm place to warm it, then load it into the camera just before taking a photograph. Wipe the battery terminals with a clean, dry cloth.	13
	The battery has reached the effective life.	Replace with new battery.	20
No photograph is taken when the shutter button is taken.	There is not enough space in the SD card. The SD card has been write-protected. The SD card has not been formatted.	Insert a new SD card. Erase saved images to increase free space. Cancel the write-protection. Replace with a new SD card. Format the SD card.	24 74 15 24 94
	The SD card has been damaged.	Insert a new SD card.	24
	Auto OFF is functioning.	Turn the power ON.	25
The flash cannot be used.	Suppressed Flash has been selected.	Select another flash type.	33
	You pressed the shutter button while the flash was charging.	Wait until charging is completed before pressing the shutter button.	28
The played-back image is too dark even though the lens is lit.	The subject is too far away.	Move closer to the subject.	32
The played-back image is blurred.	The lens is not clean. The image is out of focus.	Clean the lens. Change the focus setting to match the distance up to the subject.	12 35
	The image has been shot in a handshake state.	Place the camera on a stable surface when taking photographs to prevent handshake.	29

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Problem	Cause	Remedy	Page
The SD card cannot be formatted.	The SD card has been write-protected.	Cancel the write-protection.	15
A single image cannot be erased.	The image has been write-protected.	Cancel the protection of the image.	69
	The SD card has been write-protected.	Cancel the write-protection.	15
Nothing happens even though I operate buttons.	The mode dial setting is out of position.	Turn the mode dial to the correct position.	-
Nothing is displayed even though the LCD monitor is ON.	The camera is in the PC mode.	Set the camera to the photography or playback mode.	27
The settings including date and time have been cleared.	Without battery, the camera has been left for a long period time.	Load the battery and set date and time again.	20 28

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Q&A

The following are some frequently asked questions.

Q: Pressing the shutter button does not cause the camera to immediately take a photograph. Why does this happen?

A: Are you using the "half-shutter" function (pressing the shutter button down halfway)? This camera adjusts the focus and exposure when the shutter button is pressed down halfway. If you fully press the shutter button down, the camera first tries to adjust the focus and exposure. After finding the appropriate values for these, it takes a photograph, resulting in a time lag between the time when the shutter button is pressed and when a photograph is actually taken. We recommend using the "half-shutter" function so as not to miss photo opportunities. For this function, see "Taking Photographs in Auto Photography Mode" page 28

Q: I tried correcting the image, but I am having trouble doing so.

A: The image you photographed is lighter or darker than expected, or its color is not to your liking. We are sure that there are those who have experienced this. Though images taken on a digital still camera can be corrected to match your preference, you will not be able to correct them if you are not familiar with camera operations. The image viewing software "ACDSee" supplied with the camera has an auto-correction function which allows anybody to correct images with ease.

- 1) Start up ACDSee.
- 2) Open the image you want to correct.
- 3) Click "Edit" in the "Tool" menu. The edit screen appears.
- 4) Click "Auto-adjust" in the "Adjust" menu.
- 5) Save the corrected image.

* The image itself may reduce the effect of this procedure. ACDSee has image editing functions other than "Auto-adjust". For details, consult the Help file in the application.

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Glossary

- **AF/AE**
AF (auto-focus) ... A function for automatically focusing your camera.
AE ... A function for automatically setting your camera's exposure.
- **AF/AE lock** ... Locking of the focus and exposure settings.
- **AVI Format**
A standard movie file format on Windows
- **DCF (Design rule for Camera File System)**
A file system standard defined by the JEITA (Japan Electronics and Information Technology Industries Association) that is required for exchanging data between digital cameras or a digital camera and a printer. This standard defines the hierarchy and file names used when storing image files on SD cards or other recording medium.
- **DPOF (Digital Print Order Format)**
A standard for directly writing print information to the SD card. Files in this format can be printed easily by printers or photo print service bureaus that support this format.
- **Exit File Format (Exchangeable Image File Format)**
A color still image format for digital cameras approved by the JEITA (Japan Electronics and Information Technology Industries Association). JPEF-compliant, this format is compatible with TIFF and JPEG and can be used in image processing software for most personal computers.
- **Exposure Compensation**
When the screen contains an extremely bright or dark object, the camera automatically adjusts the brightness, resulting in the subject being reproduced darker or lighter. Exposure compensation adjusts for this.
- **Formatting**
Transforming the contents of the SD card to a recordable state. (This is sometimes called "initialization".)
- **JPEG Format**
A file format used for compressing and saving color images. The compression ratio can be selected, but the higher the compression ratio, the worse image quality becomes. This format is widely used in the paint software for PCs and on the Internet.
- **NTSC (National Television System Committee)**
Method of television transmission in use in Japan and North America
- **PAL (Phase Alternate Line)**
Method of television transmission in use in the United Kingdom, Germany and other western European countries
- **Red-Eye Effect**
The phenomenon where people's eyes sometimes appear red in the picture when you use a flash to photograph them in low-light conditions. This is caused by the light of the flash reflecting off the inside of the eye.
- **WAV Format**
A standard Windows audio file format.
- **White Balance**
When the brightness of the light changes, the human eye adapts so that a white object still looks white. On the other hand, devices such as digital cameras cannot see a white subject as white until adjusting the balance to suit the color of the ambient light around the subject. This adjustment process is referred to as matching the white balance.

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Global Contacts

Country/Region	Company name	Phone number	e-mail	Website
Canada	Toshiba America Information Systems, Inc.	(800) 828-8318	dsc.support@usa.toshiba.com	www.dsc.toshiba.com
China Hong Kong	Toshiba Hong Kong Ltd.	2956-6222	NA	www.toshiba.com.hk
France	Toshiba Systems (France)	08 92 35 01 92	marketing_apt@toshiba.com	www.toshiba.fr/photo
Germany	Toshiba Europe GmbH	(021 131) 158 01	consumer@toshiba-eg.com	www.toshiba.de/consumer
Italy	Toshiba Europe GmbH Seco S.p.A. S.p.A.	(039) 6099311	toshiba.italia@toshiba-italia.com	www.toshiba-italia.com/
Mexico	Toshiba de Mexico, S.A. de C.V.	(800) 712-6784	NA	www.toshiba.com.mx
Singapore	Toshiba Singapore Pte. Ltd.	6270-7776	servicecenter_cph@toshiba.com.sg	www.toshiba.com.sg
Switzerland	Toshiba Europe GmbH Swiss Sales Branch	01 908 55 58	info@toshiba.ch	www.toshiba.ch/
United Kingdom	Toshiba Information Systems (UK) Ltd.	(01159) 76658	cp_toshiba_helpdesk@toshiba-til.co.uk	www.toshiba.co.uk
United States	Toshiba America Information Systems, Inc.	(800) 828-8318	dsc.support@usa.toshiba.com	www.dsc.toshiba.com

In the supplied CD-ROM, a file containing information regarding service and support is recorded. We recommend saving the file to your PC. In case you lose the instruction manual, to open the file, insert the CD-ROM into the CD-ROM drive and click "English" on the language selection screen, then click "Service & Support".

For customers in the United States and Canada

Register your product ON-Line
There are many advantages to being a member of the Toshiba Digital Camera community. Toshiba provides many services for our customers. We have developed the following services and notices for you. Please refer to the applicable models. There are links, updates and notices for special options available at the Toshiba Digital Community, like special adapter mounts for tele-photo, wide-angle, and other filters and lenses designed specifically for your digital camera. There are frequent discounts and promotions on printing services, carrying cases, service plans, and digital camera accessories. To find out more, visit the Toshiba Digital Community at www.dsc.toshiba.com

Inquiries about the supplied ACDSee software
ACD Systems Online Support: <http://www.acdsystems.com/English/Support/index.htm>

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TOSHIBA DIGITAL STILL CAMERA PDR-5300

For customers in the U.S.A. and Canada
Register your product on-line at www.dsc-tohiba.com
Toll-free 800-4-A-TOSHIBA
8:00 a.m. to 5:00 p.m. EST, Monday to Friday except holidays
or e-mail us at: dsc_support@usa.toshiba.com
Toshiba Imaging Systems Division
9740 Irvine Boulevard, Irvine, California 92618-1697

For customers in the UK
Welcome to digital cameras www.toshiba.co.uk
Technical support: 0800 011 9746666
9:00 am to 5:00 pm Monday to Friday except bank holidays,
or e-mail us at: dsc_uk_support@toshiba.co.uk
Toshiba Imaging Systems Division
Units 6&7, Zetland Way,
Cannery, Surrey, GU15 3DT, UK

Para clientes en U.S.A. y Canada
Registre su producto en línea al www.dsc-tohiba.com
Sin costo 800-4-A-TOSHIBA
8:00 AM a 5:00 PM hora del EST, de Lunes a Viernes,
O excepto días festivos.
Toshiba America Information Systems, Inc.
9740 Irvine Blvd., Irvine, California 92618-1697

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* For customers outside of Canada, U.K. and the U.S.A., please refer to the
instructions before this page and contact the nearest Toshiba company
for assistance.

Pour la clientèle en France
Site Web pour appareil photo: www.toshiba.fr/photo
Vos questions sur votre appareil photo, contactez-nous par téléphone,
ou contactez nous en ligne, au 0800 011 9746666,
du lundi au vendredi de 9h00 à 17h00.
Ou envoyez e-mail au: dsc_support@france.toshiba.com
Toshiba Imaging Systems France S.A.
7, Rue, Ampère B.P. 131, 92804 Puteaux Cedex, France

Pour la clientèle aux États-Unis et au Canada
Site Web pour appareil photo: www.dsc-tohiba.com
Pour plus d'informations sur votre appareil photo, contactez-nous par téléphone,
ou envoyez e-mail au: dsc_support@usa.toshiba.com
Toshiba Imaging Systems Division
9740 Irvine Boulevard, Irvine, California 92618-1697

* L'adresse et le numéro de téléphone pour votre modèle sont sans garantie.
* Pour la clientèle en dehors de la France, des États-Unis et du Canada se
consulter les instructions avant cette page et contacter la compagnie
compagnie Toshiba la plus proche pour obtenir assistance.

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