TOSHIBA

DIGITAL STILL CAMERA
INSTRUCTION MANUAL

PDR-5

2005.09.08
www.54gg.com

Before using this device, please make sure to fully read the user's manual in order to use this device correctly. After reading, please keep the user's manual in a safe place for ready reference.

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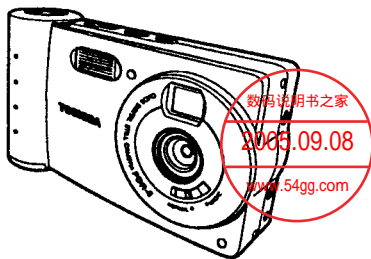
CONTENTS

USING YOUR CAMERA SAFELY

Safety precautions

Please read these safety precautions carefully before using. These instructions contain valuable information on safe and proper use that will prevent harm and damage to the operator and other persons.

Make sure you fully understand the following contents (displays and symbols) before proceeding to the main manual.

[Display definitions]

Display	Meaning
⚠ WARNING!	This indicates that improper use may cause fatal or grave bodily harm.
⚠ CAUTION!	This indicates that improper use may cause injury*1 to people or damage*2 to property.

*1: Injury meaning treatment not requiring hospitalization, prolonged treatment, injuries, burns, and shock.

*2: Damage meaning extended harm to home, household effects, domesticated animals, and pets.

[Symbol definitions]

Symbol	Meaning
⊘	Indicates prohibited (must never be done). Details on what is prohibited will be expressed in or near the symbol in illustration or text.
❗	Indicates mandatory (must always be done). Details on the contents will be described in or near the symbol in illustration or text.

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⚠ WARNING

• Do not disassemble, change or repair the unit. This could cause fire, electric shock, and injury. Please leave repairs to authorized dealer.	• If you want to use the unit on an airplane, please consult with the airline in advance. For aviation control, there may be restrictions for use, please follow the directions of the airline in question.
• Do not use in the bathroom or shower. This could cause fire and electric shock.	• Do not recharge the batteries. The batteries may burst or leak resulting in fire and injury.
• Do not use in areas near water. This could cause fire and electric shock. Please take special care during rain, snow, on the beach or near the shore.	• Do not apply heat or disassemble the batteries and don't dispose them in water or incineration. The batteries may burst or leak resulting in fire and injury.
• Should you ever notice smoke, a strange odor or excessive heat coming from the camera, immediately turn off the power and remove the batteries. Using the unit under these circumstances can result burns. Leave repairs to the dealer where you purchased the unit.	• Keep the batteries out of reach of children. Swallowing a battery by a child results in poisoning. If a battery is swallowed, immediately consult a physician.
• Do not use while driving. Please do not attempt to shoot images while walking or riding a bicycle or motorcycle, this may cause traffic accidents.	• If battery fluid enters the eye, immediately rinse with fresh water and consult with a physician to receive treatment. If left without treatment, damage to the eye could be permanent.

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⚠ CAUTION

🚫 • Do not use the camera in places with excessive humidity or dust. This could cause fire and electric shock. In addition, stored data could be corrupted due to defects as a result of condensation.	🚫 • Do not wrap the camera in cloth or blankets, etc. Due to a rise in heat of the camera, this could lead to burns to the cloth or blankets, etc.
🚫 • Do not allow foreign matters such as paper-clips, etc. to enter the unit and do not spill liquid such as coffee over the unit. This could cause electric shock and defects. Should any foreign matter comes in the unit, turn the power off, remove the batteries and contact your dealer.	🚫 • Do not walk around with camera swinging from wrist-strap. This could cause defects or injury, as it causes the unit to be subjected to shocks by bumping a person or an object, or to get caught between doors.
🚫 • Do not look at the sun through the camera finder. This may cause soreness of the eyes.	🚫 • Do not attempt to playback the supplied CD-ROM using a standard CD player. There exists the danger of damage of the headphones or speakers or injury of the ears.
🚫 • Do not leave the camera behind in places where the temperature may rise significantly, such as inside a car. Due to excessive temperatures defects could occur or stored data could become corrupted.	❗ • When disconnecting this unit from the PC card slot of the personal computer, take care the PC card section may show a high temperature due to temperature rise inside the computer.
🚫 • Do not use the flash on people driving cars and bicycles. This may cause traffic accidents.	❗ • If the camera is dropped or subjected to severe impacts, remove the batteries. Using the unit under these circumstances could cause electric shock and defects. Please consult your dealer.

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⚠ CAUTION

🚫	• Do not allow the plus (+) and minus (–) battery terminals to make a short circuit. The batteries may burst, leak or overheat resulting in fire and injury. As a short circuit can also occur while carrying batteries around or during storage, please don't allow them to make physical contact with metal objects.	❗	• Use the specified batteries. (Lithium battery CR123A)
🚫	• Don't insert the batteries with the plus (+) and minus (–) terminals reversed.	❗	• Apply tape over the plus (+) and minus (–) terminals when storing exhausted batteries or disposing them. If stored or disposed of without doing this, the batteries may make contact with metal objects, resulting in fire and injury due to leaking of battery fluid, overheating or bursting of the battery.
❗	• Remove the batteries if you plan not to use the camera for an extended period.	🚫	• Do not apply severe impacts on the LCD screen. This may break the surface, resulting injury.
❗	• Rinse clothing or skin with fresh water in case battery fluid spills over clothes or your skin. If you don't do this, you may experience skin irritation. Wipe off clearly the fluid on the battery case.		

SPECIAL CARE INSTRUCTION

- Please avoid using the camera in the following place.

  In areas subject to direct sunlight.

  In areas subject to extremely high or low temperatures.

  In areas where the temperature may change suddenly, causing condensation.

  In areas subject to high humidity.

  In areas subject to excessive dust.

  In the direct neighborhood of electrical equipment generating strong radio waves or magnetic fields (Television, radio, microwave oven, speakers, etc.)

  In areas subject to severe impact or vibrations.

  In areas subject to chemicals.

- When cleaning the camera, don't use benzene, cleaners containing alcohol, thinner, etc. These chemicals could damage the finish and indicators, and lower the quality.

  Clean all optical lenses by lightly rubbing with a clean, dry cloth.

- When moving or storing the unit, always use the supplied box.

- Don't insert foreign objects, such as paperclips, etc. into the connector of the PC card slot.

- When initializing the SmartMedia, make sure that no remaining data is left, as initializing deletes all data on the SmartMedia.

  Initializing will erase data.

- When using the AC adapter attachment, be sure to purchase and use the proper adapter for the area.

Area	Adapter to use	
	Model	Voltage
Japan U.S.A. Canada	PDR-AC5	100-120 VAC
United Kingdom	PDR-AC5U	230 VAC
Europe (excluding the U.K.)	PDR-AC5E	230 VAC

For handling and use of the AC adapters, refer and follow the instruction manuals for each individual model.

SPECIAL CARE INSTRUCTION

- When inserting the PC card portion into a PCMCIA card slot, don't pull at or twist the main unit.

  When moving the computer, remove the card part of this camera from the card slot.

1) Don't pull at the main unit of camera when the card is inserted into the PCMCIA card slot.

2) Don't twist the main unit of the camera when the card is inserted into PCMCIA card slot.

3) Don't lift up or turn over the computer when the card is inserted into the PCMCIA card slot.
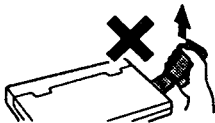
- When the PC card portion is open, please don't hold the unit solely by the PC card portion, don't hold parts and make bending or twisting movements at the same time.

4) Don't hold only by the card part or swinging the card part.

5) Don't forcely turn the PC card more than 180 degrees.
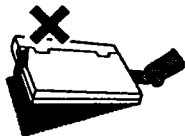
6) Don't make twisting movements when holding both the card part and the main unit.

BEFORE USE

■ Please make sure to fully understand the following

- Reproducing this manual fully or in part without written permission in advance is prohibited.
- For the purpose of improvements, changes in this manual or in this product may be made without advance notice.
- Please capture several test images before first use of camera to ensure it is working correctly. We are not liable for any collateral damages arising from a defect of the device itself or abnormalities (contents stored in storing devices such as a hard disk, floppy disk, RAM disk, etc.).

■ Exemption clauses

- Our company bears no responsibility in the case of damages arising from fire, earthquakes, operation by third parties, other accidents, or use under abnormal conditions including erroneous or mistaken operation and other problems.
- Our company bears no responsibility for collateral damages (lost profits, work interruption, corruption or loss of the memory contents, etc.) arising from the use of or the inability or use this unit.
- Our company bears no responsibility for the use of this unit in other ways than those described in this manual.
- Our company bears no responsibility for damages arising from defective operation through the connection of peripheral equipment.

■ Concerning copyrights

Shooting images with this device is meant for individual pleasure and must not be done without permission as this violates copyright laws.

■ VCCI Compliance Statement

This equipment is classified as a Class B computing device based on the Voluntary Control Council for Interference (VCCI). Although it has been designed for homeuse, its use in the vicinity of radios and TVs may cause interference.

Refer to the "Users Guide" concerning how to properly use this equipment.

■ Trademark and term

Image Expert and Camio are trademarks of Sierra Imaging, Inc.

Apple and Macintosh are registered trademarks of Apple Computer, Inc.

Power PC is a trademark of International Business Machines Corporation.

Windows is a registered trademark of Microsoft Corporation.

In addition, other proper and product names, developed by different makers, appearing in this user's guide are also registered trademarks or products.

PC card: This is the generic term corresponding with the PC Card Standard determined by the Japan Electronic Industry Development Association and the Personal Computer Memory Card International Association.

FlashPix: FlashPix is a file format that was jointly developed and published by Kodak Corporation, Microsoft Corporation, Hewlett-Packard Corporation, and LivePicture Corporation in 1996.

JPEG: (Joint Photographic Experts Group) Internationally Standardized Compression Mechanism for Full Color Still Images.

SmartMedia: SmartMedia, name of memory media format established at the SSFDC forum.

Accessories

Please check to make sure that all items below are included
with your camera.
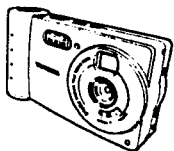
• Camera main unit

• Lithium battery (1)
  CR123A

• CD-ROM
  Application software)

• Wrist strap (1)

• Soft case (1)

• Video cable (custom)

• SmartMedia (3.3V, 2MB)
• Anti-electrostatic case (1)
• Index label (2 sheets)
• Write protection seal (4
  sheets)

• Instruction manual
• Guarantee

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Name and function of parts

Flash light sensor

Strap hook   Flash   Finder

TOSHIBA

DIGITAL terminal

VIDEO OUT terminal

Battery compartment lid

DC IN 3V terminal

SmartMedia card compartment lid

Lens   Self-timer lamp

Normal-Macro selection switch

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Shutter button

DISP (display) button

REC/PLAY selection switch

POWER switch

Finder

Standby lamp

PC card opener

LCD display (monitor)

MENU button   MULTI FUNCTION button
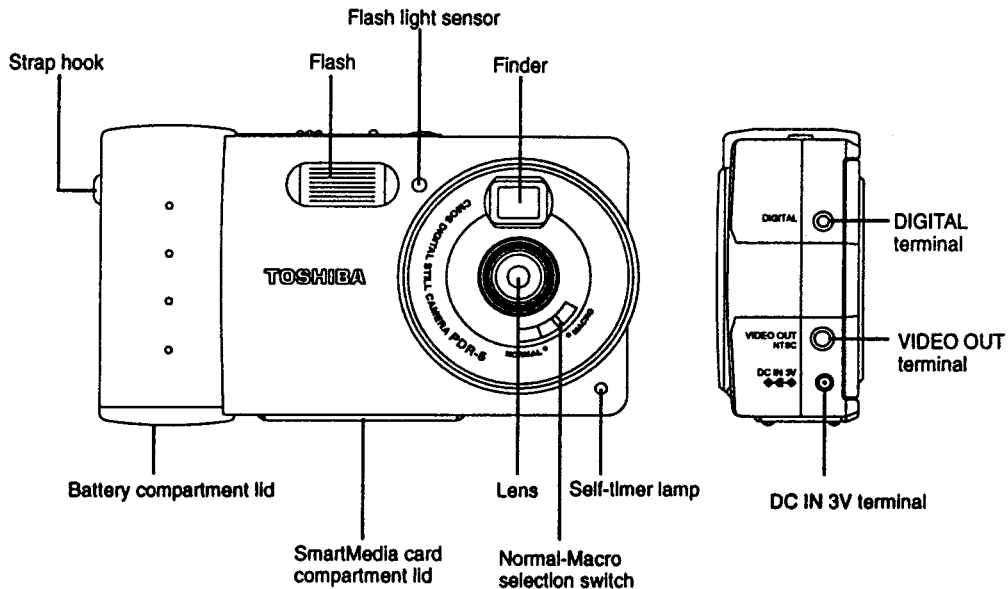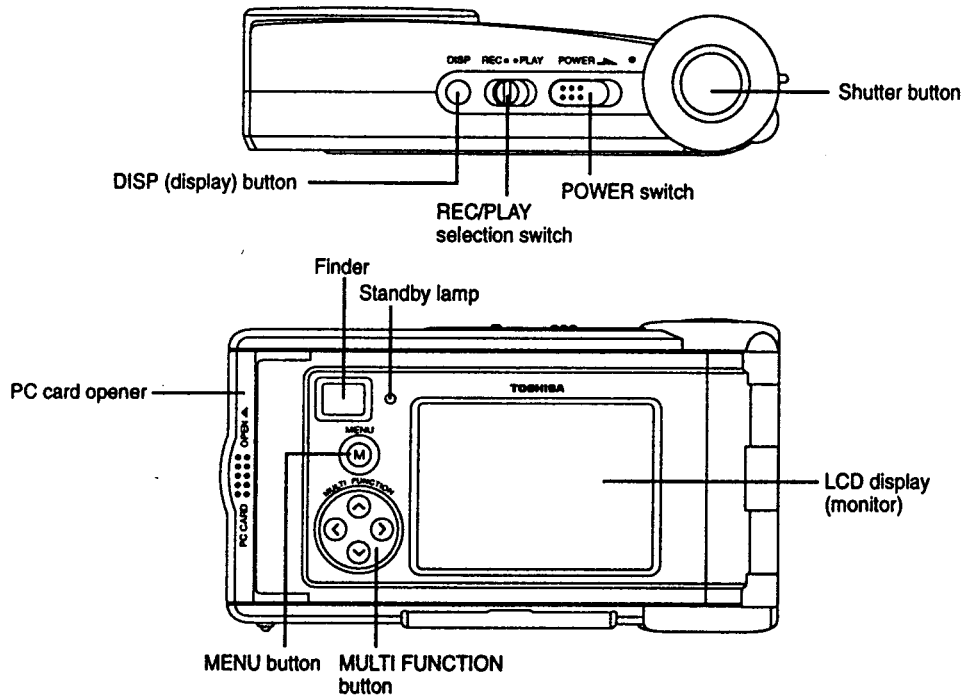
Self-timer lamp

This light will blink red when using the automatic timer.
(☞ Refer to page 31)

Strap hook
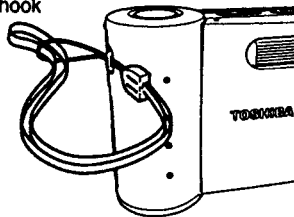
Attach the hand strap by passing the lead loop of the strap
through the strap attachment hole on the camera.

POWER switch

Sliding the power switch towards the di-   POWER ➞
rection of the arrow will turn the power
on.

The switch will return to it's original posi-
tion after release.

Sliding the switch again will turn off the power.
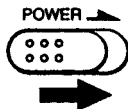
REC-PLAY selection switch

The camera has a recording mode and a   REC● ●PLAY
playback mode.

The recording mode is for capturing images
and the playback mode is for viewing the
images captured on the LCD monitor. Setting this switch to
REC will allow you to capture images and PLAY will allow
you to view them.

DISP button

This button turns the LCD monitor ON or OFF, and also
turns ON or OFF the character display for date, time and
recorded images on the LCD monitor.

Shutter button

The shutter button is a 2 step switch. If the shutter button is
pressed halfway in the Recording mode, the shutter speed
will be automatically adjusted to the surrounding conditions
and the standby lamp will be turn green.

When the standby light is green, pressing the shutter but-
ton fully down will allow you to capture images.

Pressing the menu button in either the Recording mode or
the Playback will bring up a menu that will allow you to se-
lect from various functions available in that mode.

Menu button

Pressing the menu button in either the Recording mode or the Playback will bring up a menu that will allow you to select from various functions available in that mode.

Multi Function button

Pressing the Multi Function button (∧ ∨ ＞ ＜) during the Playback mode will allow you switch from among the playback screens.

Also the settings selected in the Menu mode and selections within the menu are done.

Standby lamp

- When the camera is turned ON, the lamp will be red and when the camera is ready, the lamp turns off.

- After pressing the shutter halfway down and the program AE (automatic exposure adjustments) is properly done, the lamp will turn green. If there is not enough light, the lamp will blink green. (☞ Refer to page 28)

- The lamp will be red when writing the images to the Smartmedia. After writing is completed, the lamp turns off. (☞ Refer to page 28)

- When the strobe (flash) is recharging, both red and green lights will flash. After the recharging is completed, the lamp turns on.

- When the battery is low or needs remplacement, the lamp will blink red. (☞ Refer to page 15)

Inserting the battery/Connecting the AC adapter

This device using CR123A type Lithium batteries or power from a household electrical outlet.

● **Inserting the battery**

1. Open the battery compartment lid.
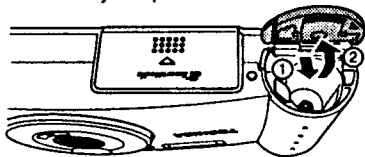
2. Insert the battery.
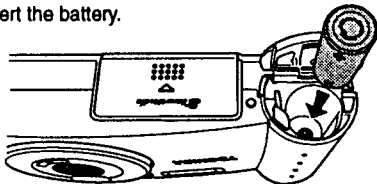
3. Close the battery compartment lid.

| Notices - Suggestions |

• Do not use batteries other than the specified type.

• Make sure the batteries are properly inserted with the (+) and (–) terminals matching the diagram.

• When not using the camera for an extended period, remove the batteries.

● **Using the AC adapter (optional model specific) and connecting to household AC outlet.**

1. Plug the AC adapter into the outlet.

2. Turn off the camera.

3. Insert the plug from the adapter into the camera DC IN 3V terminal.
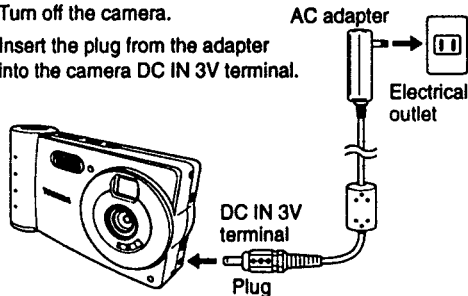
| Notices - Suggestions |

• Prolongs battery life.

• Make sure that the camera is turned off whenever attaching or removing the AC adapter. Removing or attaching the AC adapter while the camera is in operation may damage image data or cause malfunctions.

• Please use the AC adapter specifically made for this camera. (☞ Refer to page 6)

• Please read the instructions for the AC adapter and be sure to follow the instructions and warnings.

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Battery power display

When the battery's power is used during capturing images or playback the remaining amount is shown on a display.
When necessary, change the battery after turning the power off.

LCD monitor display (☞ Refer to page 21)	Standby lamp (☞ Refer to page 11)	Condition (process)
(battery icon)	(OFF)	The battery is low
(battery icon)	Flash in red	The battery is poor (Change the battery)
(battery icon) (Flash)	Flashing in red rapidly	No battery. The power of the camera turns off. (Change the battery immediately.)

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Inserting/Removing SmartMedia

● Inserting

1. Open the SmartMedia compartment lid.
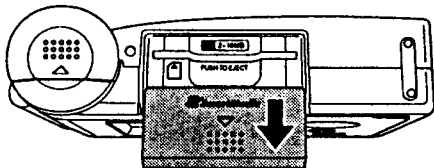
2. Insert the SmartMedia card.
   Insert slowly and completely.
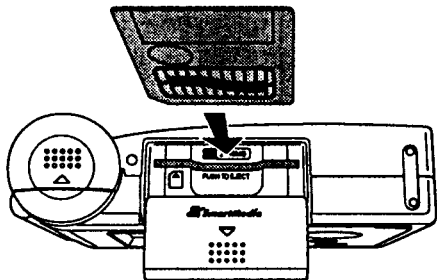
3. Close the lid.

| Notice - Suggestion |

• Make sure the SmartMedia is facing properly when inserting.

● Removing

1. Open the SmartMedia compartment lid.
2. Remove the SmartMedia card.

   When inserted completely, the SmartMedia will come slightly out.

   Pull out with your fingers.

3. Close the lid.

Concerning SmartMedia

- The SmartMedia card used for this unit is a 3.3V version (cut on the right). The 5V version (cut on the left) can't be used.

- When applying the data protection seal shown in the diagram on the left, recording or deleting data is impossible. Be sure to use this seal, when storing important data. Remove the seal when recording, deleting or initializing again.

- When the seal is dirty, its function of protecting the data can be disabled. Wipe off the seal using a clean, dry cloth.

- Be sure to always initialize the card when using a new SmartMedia card. (☞ Refer to page 18)

- SmartMedia doesn't have an unlimited life. If used for a long time or if used many times to store and delete images, eventually new images won't be stored any more. Please, purchase a new SmartMedia card in this case.

- If the SmartMedia card is removed or the device is switched off or the PC card is taken out of the PC card slot while data is being recorded, the stored data may be partly or completely deleted. Please notice that the manufacturer is not responsible for the deletion of stored data.

- Stored data can be deleted if SmartMedia is exposed to strong static electricity or electric noise.

- SmartMedia is a high precision device. Don't expose it too strong shocks and don't drop or bend it.

- Please don't allow garbage and foreign objects to adhere themselves to and don't directly touch SmartMedia.

Write-protection seal

- For storing or carrying around SmartMedia, please use a special anti-static case.

- We recommend to use the SmartMedia card exclusively with the camera. When the SmartMedia card is accessesed using application software residing in the computer, the card's storage space could be reduced, diminishing the number of shots remaining.

- Backing up your valuable data to another media (hard disk, floppy disk, MO, etc.,) is highly recommended.

Initializing the SmartMedia

When using a new SmartMedia, it is necessary to initialize (format) it first.

1. Switch to the Menu screen.

   Press the Menu button to display the menu screen on the LCD monitor.

2. Switch to Delete mode.

   Press either ∧ or ∨ and set the arrow on the menu screen to delete.

3. Set the method to delete to initialize.

   Press ＞ or ＜ to set to initialize.

4. Initialize.

   Press the shutter button completely down. The menu will disappear and return to either the Recording or Playback mode.

   Pressing the shutter button down completely once again will initialize.

   To cancel initializing, press the Menu button.

| Notices - Suggestions |

- When initializing SmartMedia, always make sure that no remaining data is left, as initializing deletes all data on the SmartMedia.

- The SmartMedia cannot be initialized when the anti-accidental erasure protective sheet is on it, peel it off before use.

Opening the PC card compartment

1. Slide the PC card opener in the direction of the arrow.

   The PC card lock mechanism will unlock and the PC card area will slightly open.
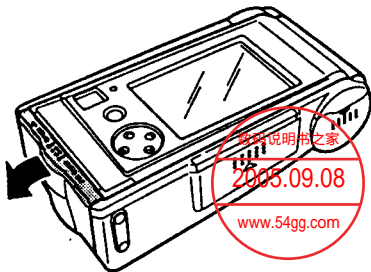
2. Open the PC card compartment slightly.

PC card compartment
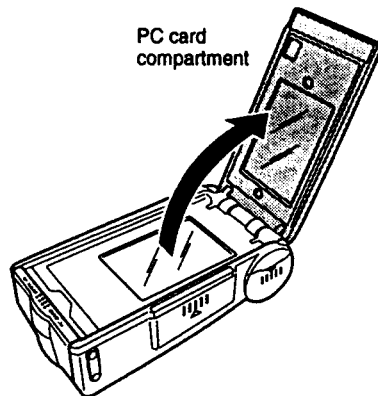
Notice - Suggestion

• Do not force open the PC card cover more than 180°.

Only to 180°
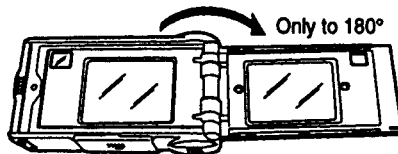
Concerning LCD monitor display

Each press of the DISP button will change the display as
shown in the direction of the arrows.

REC Mode
Power ON

```
┌─────────────────┐
│     LCD OFF     │◄──────────┐
└────────┬────────┘           │
         │                    │
         ▼                    │
┌─────────────────┐           │
│     LCD ON      │           │
└────────┬────────┘           │
         │                    │
         ▼                    │
┌─────────────────────────┐   │
│ Screen character display ON │
│ Screen character display │──┘
│ OFF (Other than warning  │
│ marks)                   │
└─────────────────────────┘
```

PLAY mode
Power ON

```
┌─────────────────┐
│     LCD ON      │◄──────────┐
└────────┬────────┘           │
         │                    │
         ▼                    │
┌─────────────────────────┐   │
│ Screen character display ON │
│ Screen character display │   │
│ OFF (Other than warning  │──┘
│ marks)                   │
└─────────────────────────┘
```
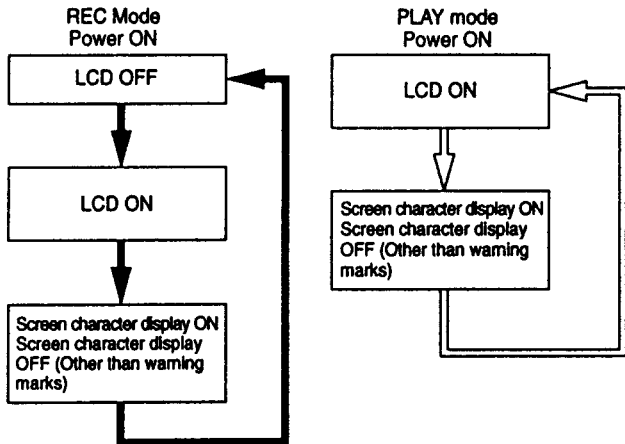
Status display mark: (☞ Refer to page 21)

The illustrations below explain what is displayed on the monitor. Normally, all of the items are not displayed at the same time.

- **REC (recording images)**

Initializing, deleting images.

Image quality [STD, FINE, B&W] (☞ Refer to page 32)

Number of frames remaining

FINE18

˛PLEASE WAIT˛

1998 .12 .25
AM11 .53 — Present time and date (☞ Refer to page 24)

Battery [▭, ▱] (☞Refer to page 15)

Condition displaying mark

Strobe (Flash) [AUTO, ✦, ⊕, ⊗] (☞ Refer to page 35)

White (Balance) [▣, ⚘, ✵] If set to AUTO, it will not display. (☞ Refer to page 33)

Macro (☞ Refer to page 29)

Self timer (auto-timer) (☞ Refer to page 31)

4 frame multiple image capturing (☞ Refer to page 30)

- **PLAY (viewing images)**

Playback of images (viewing)
Deleting images
Initializing

Folder number

File number

00-0017

˛PLEASE WAIT˛

1996 .12 .30
FM04 .27 — Date and time image captured

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Menu Screen Display (Japanese)

The illustrations below explain what is displayed on the monitor. Normally, all of the items are not displayed at the same time.

	撮影メニュー	
	消去	[ラスト・オール・初期化]
�'s	ストロボ	[AUTO・ƒ・⦵・⦶]
✷	画質	[STD・FINE・B&W]
✷	明生補正	[−000■000+]
✷	LCD明るさ	[−000■000+]
	マルチ撮影	[OFF・マルチ4]
	セルフタイマ	[OFF・ON]
✷	ビープ	[OFF・ON]
	年月日	[1998−12−25]
	時刻	[AM11:53]
✷	OSD	[JAPAN・ENG]
✷	ホワイト	[AUTO・■・☆・※]

	再生メニュー	
	スライドショー	[OFF・ON]
	ズーム	[OFF・ON]
	消去	[選択・オール・初期化]
✷	LCD明るさ	[−■■■■■■■+]
✷	ビープ	[OFF・ON]
	フォルタ	[IM000000:▷]
✷	OSD	[JAPAN・ENG]

☐ Settings when purchase

✷ Settings are recorded when power is turned off.

Notice

- Year Month Date, time is an example of the settings.

Display mode selection (Japanese / English)

1. Display the menu screen.

   Press the Menu button to display the Menu screen on the LCD monitor.

2. Change to mode selection mode.

   Press either ∧ or ∨ to move the arrow and select "OSD" on the menu.

3. Select the display mode.

   Press either ﹥ or ﹤ and set the display mode to either JAPAN or ENG.

4. Press MENU button to end the Menu settings.

| Notice |

• Turning the power off will record the setting.

Adjusting the clock (date, hour)

- After purchasing and inserting the batteries (CR123A) or when replacing the batteries may cause the clock data to be initialized. When this happens, the time must be corrected.

- After adjusting to clock to the proper time, the time and date an image captured can be recorded and displayed when the image is viewed later. (The DISP button can be used to avoid display of the date and time.)

  Example) When adjusted to 1998 12 (December) 22nd 10:00 (The language setting used is Japanese for the LCD monitor mode.)

1. Slide the REC-PLAY selection switch to REC.
2. Display the Menu screen (Recording menu).
   Press the MENU button to display the LCD menu screen.
3. Set to the date adjustment mode.
   Press either ∧ or ∨ and set the menu arrow to "year month date".
4. Adjust the [year]
   Press either ❯ or ❮ and select the year item (4 digits).
   Press either ∧ or ∨ and set to 1998.
   The year selection will change as shown below.

   ┌─▶1998 ◀─▶ 1999 ◀─▶ .... ◀─▶2096 ◀─▶ 2097 ◀─┐

5. Set the "Month" and "Day".
   Press either ❯ or ❮ and select the "Month" item.
   Press either ∧ or ∨ and set to 12.
   Press either ❯ or ❮ and select the "Day" item.
   Press either ∧ or ∨ and set to 22.
   Press ❯ to end the "Day" item.
6. Change to time adjustment mode.
   Press either ∧ or ∨ and set the menu arrow to time adjustment.
7. Adjust the "Hour" and "Minute".
   Press either ❯ or ❮ and select the "Hour" item.
   Press either ∧ or ∨ and adjust to AM 10.
   Press either ❯ or ❮ and select the "Minute" item.
   Press either ∧ or ∨ and set to 00.
8. Press the MENU button to end the menu settings (Time adjustment).

Adjusting the brightness of the LCD monitor

1. Display the menu screen.

   Press the MENU button to display the menu screen on the LCD monitor.

2. Change to LCD monitor brightness adjustment mode.

   Press either ∧ or ∨ and set the menu arrow to the "LCD brightness".

3. Select the LCD brightness.

   Pressing either the > or < will allow you to select from 5 adjustments of dark to bright. The LCD monitor will show the image to be captured.

4. Press the MENU button to end the menu settings.

Notice

• Turning the power off will record the settings.

Buzzer selection (ON/OFF)

1. Display the Menu screen.

   Press the MENU button to display the Menu screen on the LCD monitor.

2. Change to Buzzer selection mode.

   Press either ∧ or ∨ and set the menu arrow to Beep.

3. Select either ON or OFF for the buzzer.

   Press either 〉 or 〈 and select ON or OFF.

4. Press the MENU button to end the menu settings.

| Notice |

- Turning off the power will record the settings.

Getting the camera ready

Hold the camera in both hands with arms close to the body.
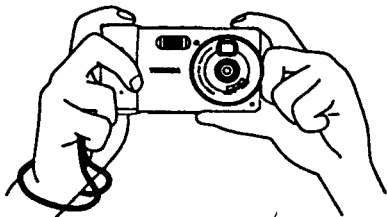
| Suggestion |

• Be careful to insure that fingers are not touching the lens, strobe (flash), or strobe sensor.

The finder range frame

The range frame is for general estimations. The range frame and the actual range in the images captured may differ. To accurately determine the image range, use the LCD monitor to capture images.

NORMAL (standard)

MACRO (Macro)
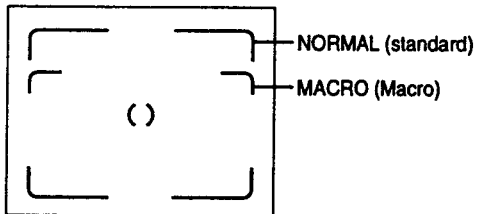
Basic image capturing

1. Slide the REC-PLAY selection switch to REC.

2. Set the range and press the shutter.

   Use either the LCD monitor or the finder to set the image range and press the shutter button.

   Pressing the shutter button down halfway will adjust the shutter speed to the surrounding conditions.

   Pressing the shutter button down fully after the standby lamp has turned to green will snap an image.

   The lamp blinking green indicates that there is not enough light. When this happens, use the strobe (flash) to capture images.

3. Verify that the standby lamp has turned off after turning red.

   When the standby lamp is red, the image is being written to the SmartMedia. Wait until the lamp turns off.

| Notes-Suggestions |

- Refer to page 20 for On and Off settings of the LCD monitor.

- If the camera is not used at all for about 2 minutes when the power is ON, it will automatically turn itself OFF. Turn the power back ON to use.

- When the battery low indicator is displayed, avoid capturing images.

  This may cause malfunctions. Replace with new batteries.

- To conserve battery life, it is recommended to turn off the monitor and use the finder to capture images. (☞ Refer to page 20)

- There will be differences between the image in the finder frame and the actual image. Use the LCD monitor to accurately determine the range for the image.

- The camera automatically determines the shutter speed from the surrounding conditions.

  For this reason, the camera is susceptible to shaking under dark conditions.

- Do not turn off the power or switch modes from REC to PLAY when the camera is writing to the SmartMedia. The image data may be loss or malfunctions may occur.

Macro (Close ups)

1. Slide the NORMAL-MACRO selection switch to MACRO.

2. Capture an image.

   Capture an image in the same manner as in "Basic Image Capturing". (☞ Refer to page 28)

| Notes - Suggestions |

- When capturing images with the LCD monitor OFF, the monitor will turn ON automatically in the MACRO mode. Use the LCD monitor to capture images.

- The range for capturing images in the MACRO mode is from 20 cm to 10 cm.

  The slide switch can be used to adjust the focus for the MACRO mode.

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4 Screen Multi-image capturing

By pressing the shutter 1 time will automatically capture 4 continuous images in approximately 1 second intervals on one size screen.

1. Switch the REC - PLAY selection switch to REC.

2. Display the MENU screen (Recording menu).

   Press the MENU button to display the menu on the LCD monitor.

3. Set to the multi-image capturing mode.

   Press either ∧ or ∨ to set the menu selection arrow to multi-image.

4. Select multi-image capturing.

   Press either > or < and select multi 4.

5. Set to image capturing mode.

   Press the MENU button to return to the recording mode.

6. Determine the range and press the shutter.

   By facing the camera to the objective, the shutter will be continuously pressed automatically and a 4 image multi-screen will be recorded.

Notes

- The strobe (flash) cannot be used during 4 screen multi-image capturing.

- Change in movement can be recorded onto one screen.

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Self-timer Image capturing (Automatic Timer)

By using the self-timer, you can capture an image approximately 10 seconds after pressing the shutter.

1. Switch the REC - PLAY selection switch to REC.

2. Display the Menu screen (Recording menu).

    Press the MENU button to display the menu screen on the LCD monitor.

3. Select the self-timer image capturing mode.

    Press either ∧ or ∨ and move the menu selection arrow to self-timer.

4. Select the self-timer.

    Press ether the > or < and select ON.

5. Set to recording mode.

    Press the MENU button to return to the Recording mode.

6. Determine the range and press the shutter.

    The recording will be finished in approximately 10 seconds.

| Note |

*   After pressing the shutter, the self timer lamp will blink until the image is captured.

Selecting the Screen Quality Modes

Select from the STD (Standard), FINE (Detailed), and B&W(Monochrome).

1. Set the REC - PLAY switch to REC.

2. Display the Menu screen (recording menu).

   Press the MENU button to display the Menu screen on the LCD monitor.

3. Set to the screen quality selection mode.

   Press either ∧ or ∨ and set the menu selection arrow to screen quality.

4. Select the screen quality.

   Press either the 〉or 〈 and select from STD, FINE, or B&W.

5. Set to recording mode.

   Press the MENU button to return to the recording mode.

Notes

- The number of screens that can be stored in the SmartMedia will differ according to the screen mode.

  FINE, B&W: 20 frames, STC: 40 frames (for 2MB SmartMedia)

- For screen quality, use the FINE mode, for more images, use STD.

- To photograph letters and other B&W subjects, use the "B&W" mode.

- The images are stored and compressed in the JPEG format.

White balance settings

The white balance is adjusted in order to capture images of subjects as close to their natural colors as possible. Most images can be captured in the AUTO mode, however even more real-like colors can be obtained by adjusting the setting to the light source (Fluorescent light, incandescent light, or sunlight).

1. Set the REC-PLAY selection switch to REC.

2. Display the Menu screen (recording menu).

   Press the MENU button to display the menu screen on the LCD monitor.

3. Set to white balance mode.

   Press either ∧ or ∨ and set the menu selection arrow to "White".

4. Adjust the white balance settings.

   Press either the 〉 or 〈 to adjust the white balance.

   • AUTO (automatic) The camera will automatically adjust the white balance according to the lighting conditions.

   • ▦ (Fluorescent light) Use this setting for capturing images indoors under fluorescent lighting.

   • ⚙ (Incandescent light) Use this setting for capturing images indoors under incandescent lighting.

   • ☀ (Sunlight) Use this setting for capturing images outdoors in sunlight.

5. Set to recording mode.

   Press the MENU button to return to the recording mode.

| Note |

• The settings will be recorded when the power is turned OFF.

Adjusting Exposure

1. Set the REC-PLAY selection switch to REC.

2. Display the Menu screen (recording menu).

   Press the MENU button to display the menu screen on the LCD monitor.

3. Set to the exposure adjustment mode.

   Press either the ∧ or ∨ and set the menu selection. arrow to exposure adjustment.

   The recording screen shows on the LCD monitor.

4. Select the exposure adjustment value.

   Press either > or < and select from among the 5 values.

   The LCD monitor will display the screen to be recorded.

5. Set to recording mode.

   Press the MENU button and return to the recording mode.

| Note |

• The adjustments for exposure can be set from +1.0 (EV) to −1.0 (EV) in 0.5 (EV) increments.

Using the Strobe (Flash)

1. Set the REC - PLAY selection switch to REC.

2. Display the Menu screen (recording menu).

   Press the MENU button to display the menu screen on the LCD monitor.

3. Set to the Strobe setting mode

   Press the either ∧ or ∨ to move the menu selection arrow to strobe.

4. Select the strobe mode.

   Press either 〉 or 〈 and select from the strobe modes.

   - AUTO (Automatic lighting) The flash will be used automatically in dark situations. Normally, this mode is used.

   - ⚡ (Mandatory flash) Flash is always used. Used when there is light behind the subject.

   - ⊙ (Red eye reduction) This is used when capturing images of people in dark situations.

   - ⚡ (No flash) Prevents the flash from being used.

5. Set to recording mode.

   Press the MENU button to return to the recording mode.

Notes

- In the red eye reduction mode, the camera will flash once then flash again a second time to capture an image.

- When the power is turned OFF, the setting will be recorded.

- When the Strobe (flash) is recharging, the standby lamp turn red and green.

VIEWING RECORDED IMAGES

Using the units LCD to view recorded images

1. Set the REC - PLAY switch to PLAY.

2. Turn ON the power.

   Slide the power switch in the direction of the arrow.

   The LCD monitor will then light up and the image that was recorded last will be shown on the screen.

3. Select an image to view it.

   Press either > (the frame number will increase) or < (the frame number will decrease) to change the recorded images one by one. (Standard size display)

Attaching to a TV to view images.

1. Use the video cable accessory to attach the camera to the TV.

   Turn OFF the camera and attach the cable to the VIDEO OUT connector on the camera and the TV's VIDEO IN terminal.

2. Turn the camera on and view the images.

   In the same manner as viewing the images on the camera's LCD (☞ Refer to page 36), turn ON the camera and select the image you wish to view.

| Notes - Suggestions |

- Make sure to turn OFF both the camera and the TV when attaching the cables.

- Images are only output through the Video Out in the viewing mode. No images are output during recording.

- Standard NTSC signal TVs available in the Japan, the US, and Canada, etc., can be used to view images. SECAM and PAL type TVs cannot be used to view images.

Various Viewing Modes

● **12 screen multi-playback**

1. Set the REC-PLAY selection switch to PLAY.

2. Set to display 12 screen multi-playback.

   Press either ∧ or ∨ to display a list of screens (12 screen multi-display). (A white marker will be shown.)

   Use ∧ ∨ > < to set the white marker on the screen you wish to see.

   By pressing the shutter, the selected screens will be displayed in standard size.

● **Slideshow (auto-play)**

1. Set the REC-PLAY selection switch to PLAY.

2. Display the Menu screen (playback menu).

   Press the MENU button to display the menu screen on the LCD monitor.

3. Set to the Slideshow setting mode.

   Press either the ∧ or ∨ and set the menu selection arrow to slideshow.

4. Set the slide show mode to ON.

   Use the > or < to set the slideshow to ON.

5. Start the slideshow.

   Pressing the shutter button fully will start the slideshow.

   The frame file number will be shown from the lower numbers.

6. To stop the slide show, press the button when the screen is being shown.

● **5 position zoom playback**

1. Set the REC-PLAY selection switch to PLAY. (☞ Refer to page 36)

2. Display the Menu screen (playback menu).

   Press the MENU button to display the menu screen on the LCD monitor.

3. Set to zoom setting mode.

   Press either the ∧ or ∨ and set the menu selection arrow to zoom.

4. Set the zoom ON selection.

   Use > or < to set zoom to ON.

5. Zoom playback.

   Pressing the shutter once will display the selected image, a white marker will appear on the image to select where to zoom.

   Use ∧ ∨ > < to select from the 5 zoom positions (upper left, upper right, lower left, lower right, and center).

   Pressing the shutter button will zoom in the area and double the size of the area.

   To cancel the zoom mode, press the MENU button.

Select a folder and playback

1. Set the REC-PLAY selection switch to PLAY.

2. Display the Menu screen (playback menu).

   Press the MENU button to display the menu screen on the LCD monitor.

3. Set to folder selection mode.

   Press either ∧ or ∨ to set the menu selection arrow to folder.

4. Select a folder.

   Press either 〉 or 〈 to select the folder that contains the image you wish to view.

5. Set to playback mode.

   Press the MENU button and return to the playback mode.

DELETING RECORDED IMAGES

● **Deleting all images at once**

1. Display the Menu screen.

   Press the MENU button to display the menu screen on the LCD monitor.

2. Set to delete mode.

   Press either ∧ or ∨ to set the menu selection arrow to delete.

3. Select the method of erasing.

   Press either > or < to select ALL.

4. Delete.

   Press the shutter button down fully. When in the playback mode the selected image (when not the last image) will be displayed and when in the playback mode there will be video output from the camera (through video).

   When the shutter button is pressed down fully once again, all the images will be deleted.

   If you wish not to delete the images, press the MENU button to return to the playback or recording mode.

| Suggestion |

• Set the REC-PLAY selection switch to any position.

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DELETING RECORDED IMAGES

● **Selecting one image to delete (during playback)**

1. Set the REC-PLAY selection switch to PLAY.
2. Display the Menu screen (playback menu).

   Press the MENU button to display the menu screen on the LCD monitor.

3. Set to delete mode.

   Press either ∧ or ∨ to set the menu selection arrow to delete.

4. Set the delete mode to selection delete.

   Press either 〉 or 〈 and select selection delete.

5. Select the image to delete.

   Pressing the shutter button down fully will display the 12 multi-playback screen. Use the ∧ ∨ 〉 〈 buttons to set the marker on the screen you wish to delete and press the shutter button fully down. The image will be displayed in normal size.

   When the shutter button is pressed down fully again, that screen will be deleted.

   If you do not wish to delete the image, press the MENU button and you will return to the playback mode.

DELETING RECORDED IMAGES

● **Deleting the last recorded image (during recording)**

1. Set the REC-PLAY selection switch to REC.

2. Display the Menu screen (recording menu).

   Press the MENU button to display the menu screen on the LCD monitor.

3. Set to delete mode.

   Press either ∧ or ∨ buttons and set the menu selection arrow to delete.

4. Select the method to delete.

   Press either ＞ or ＜ buttons and select last.

5. Delete.

   Press the shutter button down fully to delete the last recorded image.

Specifications

Power source:	Lithium battery (CR123A), external power source 3V (Using the specified AC adapter)
Capturing element:	1/4 inch CMOS image sensor (350,000 pixels)
Compression system:	JPEG
File format:	Exif Ver. 2.1
Recording media:	3.3V SmartMedia
Captured images:	With a 2MB SmartMedia card 20 (FINE, B&W mode) or 40 (STD mode)
Lens:	F2.5, focus f4 mm (equivalent to 39 mm lens on 35 mm camera)
Shutter speed:	1/8 - 1/2000 second
Exposure:	Equivalent to ISO 100
Image range:	Normal 50 cm ~ ∞, Macro: 10 ~ 20 cm
White balance:	Automatic, manual (fluorescent lamp, incandescent lamp, outdoor)
Viewfinder:	Optical system
Monitor:	Color 2.5 inch reflective LCD
Strobe (flash):	Built-in (Flash modes: automatic, mandatory, red eye, none)
PC interface:	PC card interface, digital output
Operating temperature:	+5°C (+41°F) to +40°C (+105°F)
Outer dimensions:	116.5 mm(W) x 63 mm(H) x 31 mm(D) (excluding projections)
Weight:	approx. 180 g

* Contents and specification may change without prior notice due to improvements.