TOSHIBA

INSTRUCTION MANUAL

MODE D'EMPLOI

DIGITAL STILL CAMERA

PDR-M81

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TOSHIBA

INSTRUCTION MANUAL

ENGLISH

To ensure that you use the Toshiba PDR-M81 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-M81

In the space provided below, please record the model and Serial No. of your camera.
Model No. PDR-M81 Serial No. _____
Please retain this information for future reference.

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Attention

For customers in the U.S.A.

DIGITAL STILL CAMERA PDR-M81

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.

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Notes On Handling the AC Adapter

Graphic symbol definitions

Exemption Clauses

Notes On Condensation

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Before Reading This Manual

Thank you for purchasing the Toshiba PDR-M81 Digital Still Camera.
To ensure that you use this 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.

Trademark Information

- **Macintosh** and **QuickTime** are trademarks of Apple Computer, Inc.
- **MS-DOS** and **Windows** are registered trademarks of the Microsoft Corporation of the U.S. registered in the USA and other countries.
  Windows is an abbreviated term referring to the Microsoft Windows Operating System.
- **SmartMedia™** is a trademark of Toshiba Corporation.
- Other companies or product names are trademarks or registered trademarks of the respective companies.

Conventions Used In This Manual

IMPORTANT

- Indicates items or details that you should observe to prevent loss of data, malfunction and impaired performance. Also indicates information relating to specifications and functions.

Memo

- Indicates extra useful information.

☞ Indicates another page to refer to for extra information.

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Playing back your photographed images

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- Adjusting the LCD Monitor Brightness (P. 115)
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You can also do this

–The PDR-M81 also has lots of other features.–

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Loading images on a personal computer

Loading Images on a Personal Computer (P. 121), separate "Software Manual"

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(Note: "SmartMedia™" is the function name on the PDR-M81.

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The name in parentheses ( ) is the function name on the PDR-M81.

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⚠DANGER

Do not heat, disassemble or throw the batteries into fire or water.

Doing might cause them to rupture, ignite or heat up, resulting in fire or major injury.

Do not strike the batteries with a hammer, or step on, drop or subject the batteries to strong impact.

Doing so might cause them to rupture, ignite or heat up, resulting in fire or major injury.

Use the batteries only for its originally intended purpose.

Using the batteries for any other purpose might cause it to rupture, ignite or heat up, resulting in fire or major injury.

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⚠WARNING (continued)

Do not disassemble, change or repair the camera.

This might cause fire or electric shock. For details on repair and internal inspection, consult the store of purchase, or please contact the technical support number.

Do not touch power or TV antenna cords during a thunderstorm.

This might cause electric shock.

Do not use the camera while you are walking, driving or riding a motorcycle.

This might cause you to fall over or result in a traffic accident.

Use only the specified batteries or the specified AC adapter.

Use of a battery or AC adapter other than specified, might cause fire, defects or malfunctions.

⚠WARNING (continued)

Keep the batteries out of the reach of children.

If a child swallows a battery, this might result in poisoning. If a child swallows a battery, immediately consult a physician.

If battery fluid enters the eyes, immediately rinse with fresh water and consult with a physician to receive treatment.

If left untreated, damage to the eye could be permanent.

Use the AC adapter only with the indicated power supply voltage (USA: 100-120V, Europe: 230V AC)

Use with any other power supply voltage might cause fire or electric shock.

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Notes On Handling the AC Adapter

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⚠CAUTION (continued)

Do not charge the supplied batteries.

Doing so might cause them to rupture, ignite or heat up, resulting in fire or major injury.

Do not leave dead or exhausted batteries in the camera.

Doing so might cause them to rupture, ignite or heat up, resulting in fire, major injury or damaging the camera.

Do not use different types of batteries together, or mix old and new batteries.

Doing so might cause them to rupture, ignite or heat up, resulting in fire or major injury or damaging the camera.

Do not walk around with the camera swinging from the shoulder strap.

If you walk around with the camera hanging from your hand through the shoulder strap, the camera might come into contact to other people and cause injury, or damage to the camera or other objects.

⚠CAUTION (continued)

Do not look at the sun through the camera viewfinder.

This may cause injury of the eyes.

Do not use the flash close to anyone's eyes.

This might cause damage to the person's eyesight.

Do not subject the LCD monitor to impact.

If the LCD monitor is impacted, the glass on the screen may be broken and internal fluid may leak.

If the internal fluid enters your eyes or comes into contact with your body or clothes, immediately rinse with fresh water. If the internal fluid enters your eyes, immediately consult a physician to receive treatment.

Consult your dealer regarding the internal cleaning of the camera once every two years.

If dust is allowed to accumulate inside the camera for a long time, this might result in fire or defects. Consult your dealer regarding the cleaning costs.

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Notes On Handling the AC Adapter

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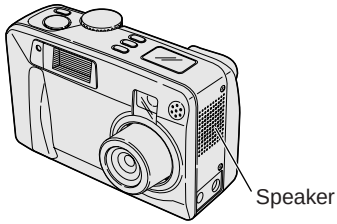
● Carrying Out Maintenance on Your Camera

- To prevent the lens, surface of the LCD monitor or viewfinder from being scratched, blow off any dust from these parts with a blower brush and lightly wipe with a soft dry cloth.
- Clean the body of the camera with a soft dry cloth. Do not use volatile liquids such as paint thinner, benzene or insecticide, as these may react with the camera body and cause deformation or remove the coating.

● Cautions on Magnetism

- Please note that credit cards, cash cards, magnetic commutation tickets, floppy disks and the like are susceptible to magnetism.
  Do not bring them close to the speaker of the camera.
  Failure to do so may cause damage to data, which could make the camera unserviceable.



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Notes On Handling the AC Adapter

Graphic symbol definitions

Exemption Clauses

Notes On Condensation

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Notes On Handling Batteries

⚠WARNING

When you use the battery, carefully read and strictly observe the warnings and cautions indicated on the battery.

Failure to do this might cause battery to rupture, ignite or heat up, resulting in fire, major injury or damaging the camera.

■ About Battery Use

- Do not use batteries other than that specified.
- Do not insert batteries in the wrong direction.
- Do not charge, heat, open, or short-circuit the batteries. Do not throw batteries into fire.
- Do not charge the supplied batteries.
- When using rechargeable batteries, follow the instructions for the batteries and the charger for safe handling. (This camera can not charge the rechargeable batteries.)
- Do not leave dead or exhausted batteries in the camera.

Neglecting the above may cause battery leakage and corrosion, resulting in burns or injury.
If your fingers or clothes come into contact with the battery acid, wash them immediately. If your eyes come in contact with battery acid, wash them and immediately consult your doctor.

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Notes On Handling the AC Adapter

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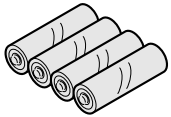
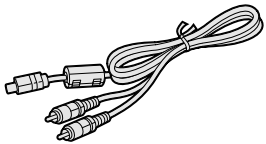
Accessories

Make sure that you have all of the items below before you start using your camera.

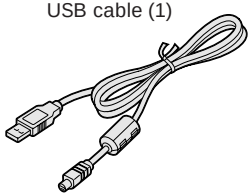
Alkaline batteries (4) (size AA)



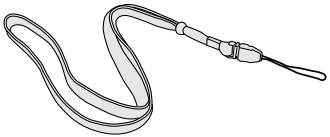
AV cable (1)



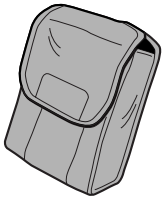
USB cable (1)



Shoulder strap (1)

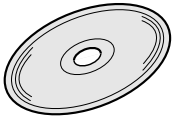


Camera case (1)

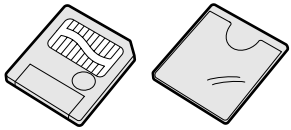


Lens cap (1)

Software application (1)
(CD-ROM)



- SmartMedia™ (8MB) (1)
- SmartMedia™ case (1)



- Instruction Manual (this manual)
- Software Manual

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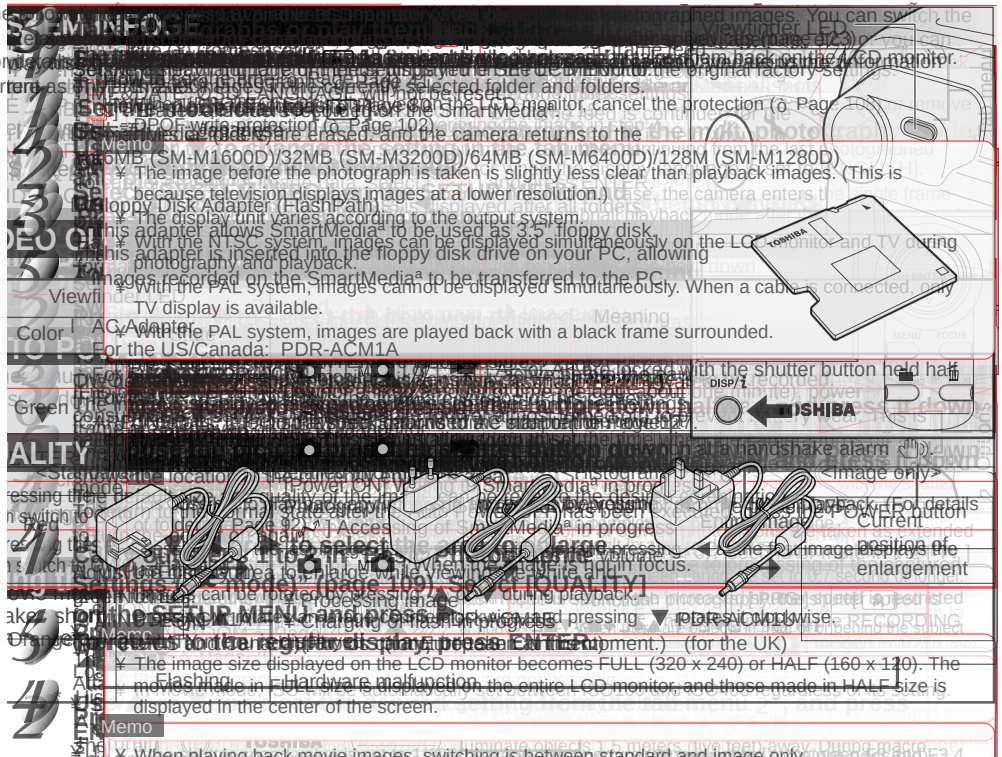

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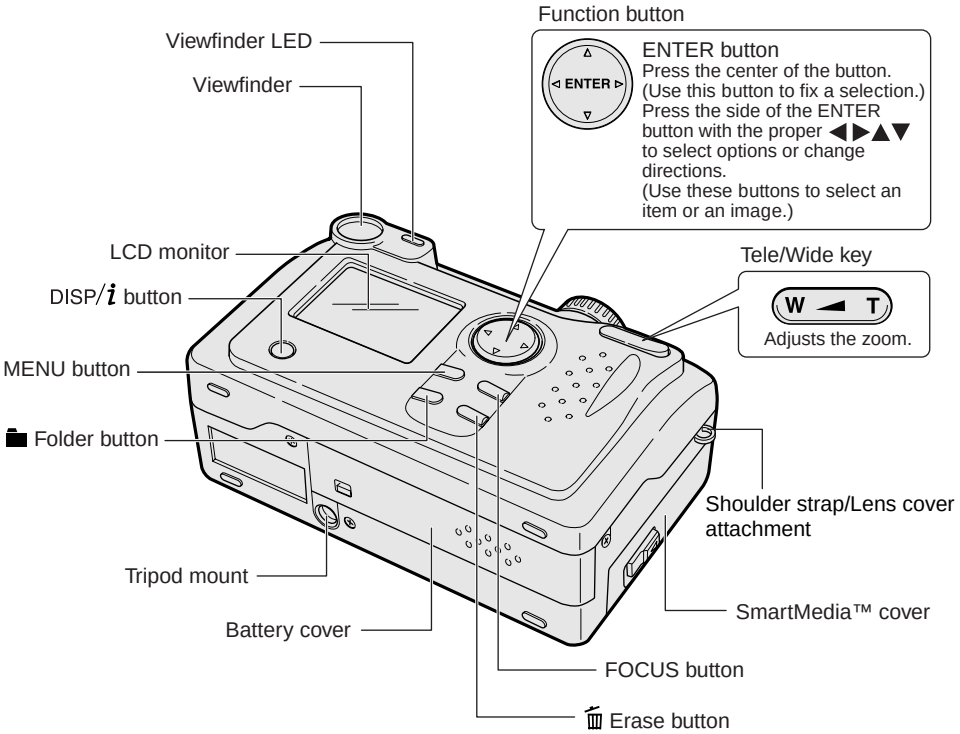

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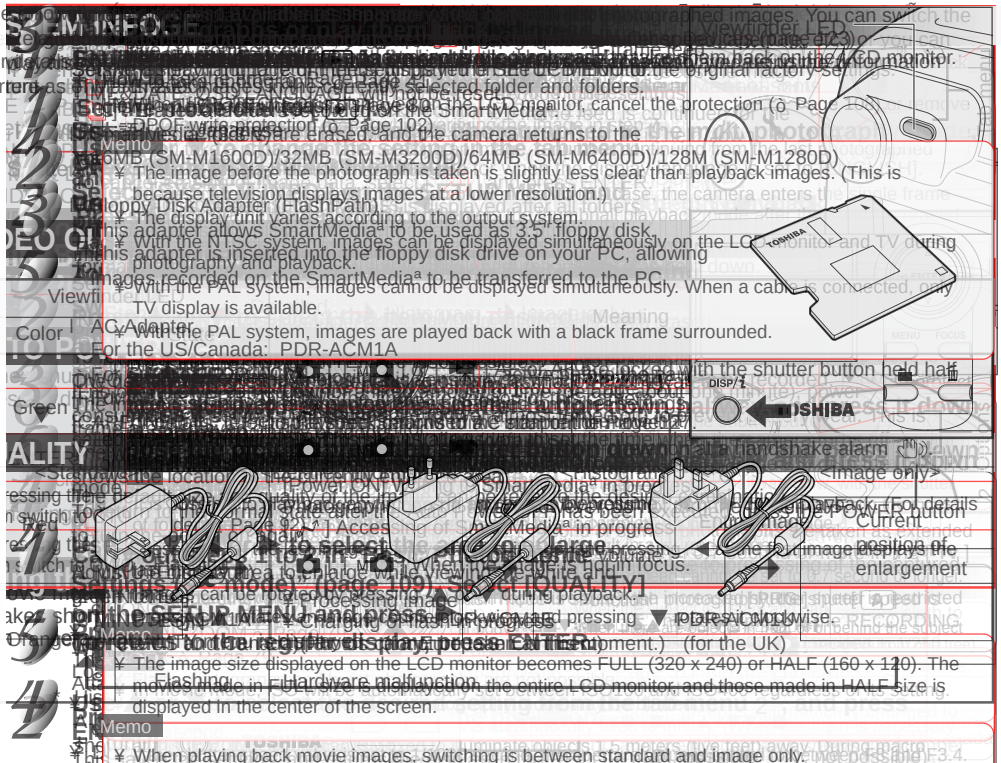

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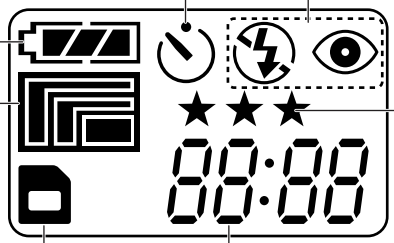
Status display

This display indicates the camera's status. You can verify the camera's status even if the LCD monitor is not on.
The text, numbers and icons that are displayed in the status display vary according to the setting.



Self-timer photography (P. 55)

Remaining battery power

Flash photography (P. 56)
No display : Auto
: Red-eye forced flash
: Forced flash
: Suppressed flash

Image quality (P. 44)
★★★ : FINE
★★ : NORMAL
★ : BASIC

SmartMedia™ loaded symbol

Example of counter display
(The display varies according to the mode dial setting.)

Image size (P. 44)

2400 x 1600 pixel (still image)
320 x 240 pixel (movie)
(FULL)

1200 x 800 pixel (still image)
160 x 120 pixel (movie)
(HALF)

720 x 480 pixel (still image)
(SMALL)

11:23 Time display: In [▶] or [🔧] mode

12 Possible number of shots: In [📷] or [M📷] mode

5:00 Possible photographic time: In [🎥] mode

PC PC indication: In [⇄] mode

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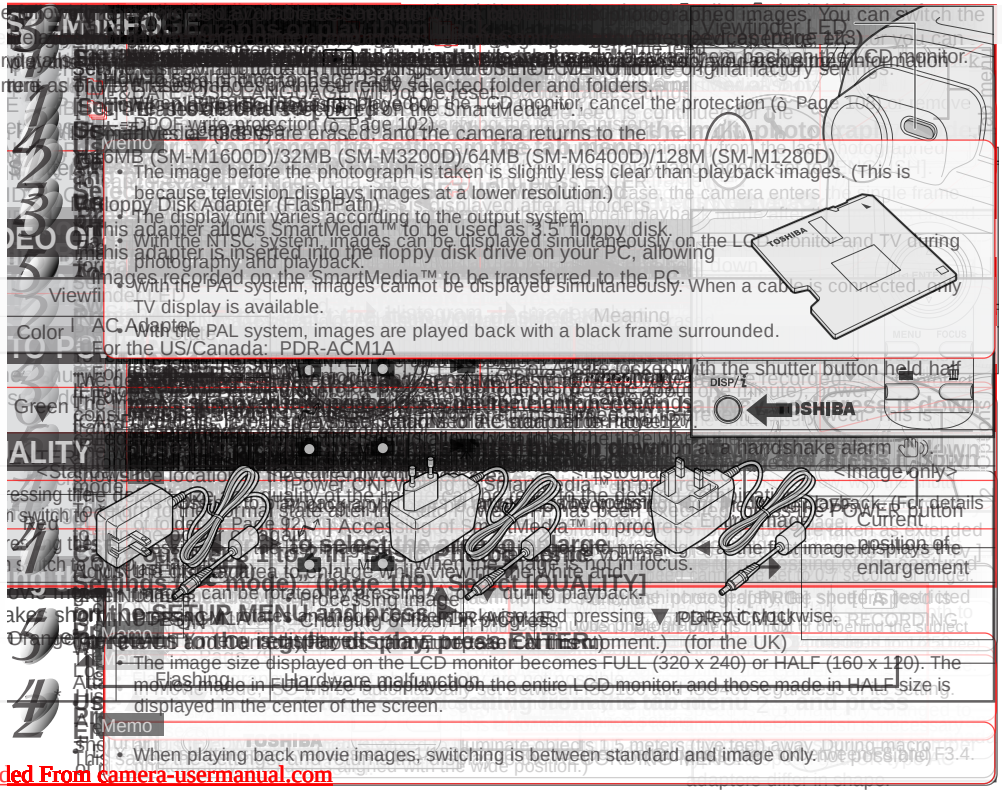

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Installing the batteries

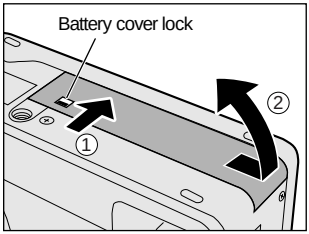
This camera uses four size AA batteries. For details on handling batteries, be sure to read page 16.

Loading the Batteries

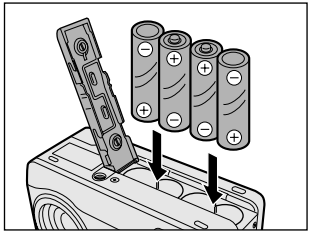
IMPORTANT

- Before you load or remove the batteries, be sure to turn the camera off. If the battery is loaded or removed with the power on, the date setting may return to its default or the camera settings may be reset. (SET-UP ⏵ Page 109, Manual Photography ⏵ Page 58)

1 Unlock the battery cover ①, slide it, and open ②.



2 Load the batteries in the battery compartment making sure that it is loaded in the correct direction as shown in the figure on the right.



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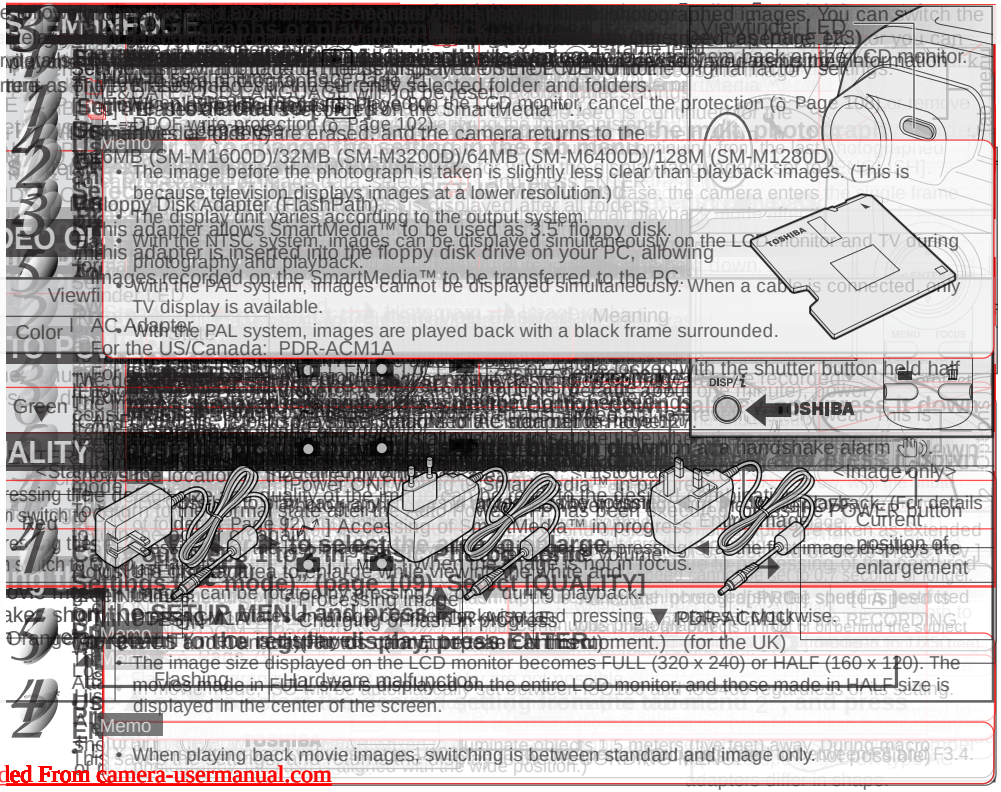

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Battery Wear

When the power is ON, the remaining battery power is displayed on the LCD monitor and the status display.

LCD Monitor	Status Display	Remaining Battery Power
		Sufficient battery power
		Batteries are partially used.
		Battery power is nearing exhaustion. Replace with new batteries.
		Batteries completely exhausted. (Camera will not turn on.) Replace with new batteries.

Memo

- When you use the camera for the first time or if you have left the camera for a long time without the battery loaded, set the date (Page 111).
- If the batteries are exhausted and need replacement, do not connect the AC adapter. It may cause an incorrect display of remaining battery power.
- Battery power measure is based on amount of power required for camera LCD, flash, photography and playback. Status Display may show batteries exhausted if there is not enough power required for normal operation, even if there is some small power left in the batteries.
- About the battery duration time

  The following shows the number of frames/time capable of continuous photographing and playback on condition of using new alkaline batteries.

  The battery duration time may vary depending on environmental temperature, image size, image quality or using frequency of zoom.

  In photography mode (using strobe every time in a normal temperature)

  When LCD monitor is ON ..... approx. 240 frames

  When LCD monitor is OFF ..... approx. 300 frames

  In playback mode (slideshow continuous playback time)

  approx. 110 min.

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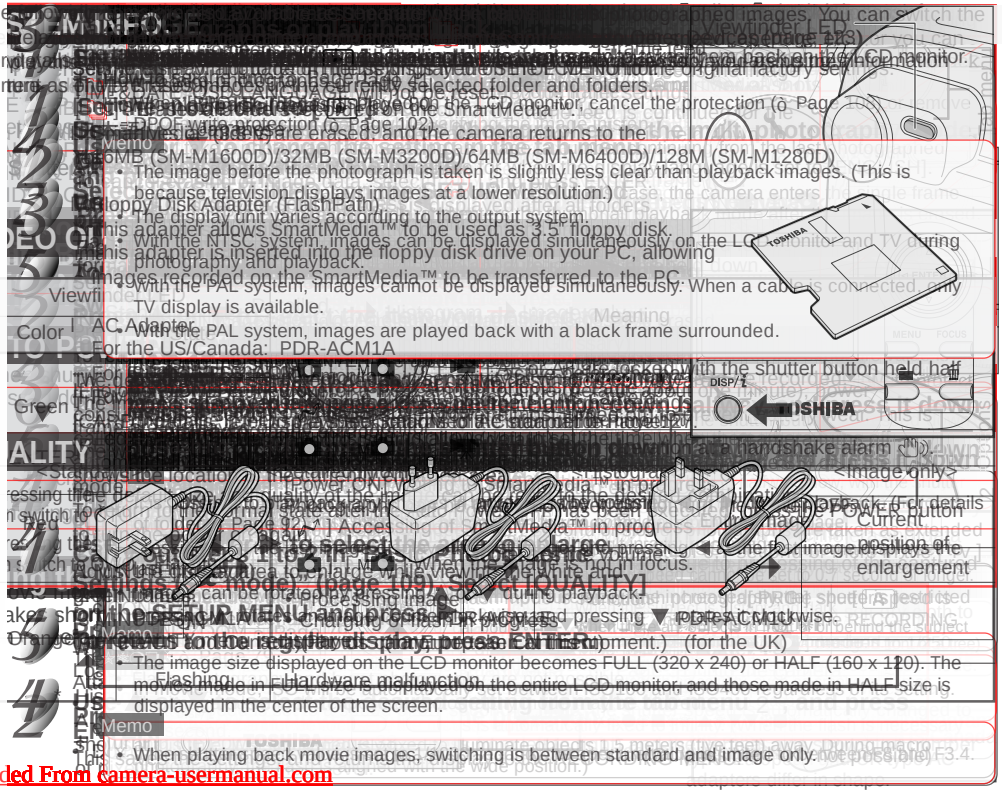

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Memo

- When the AC adapter is connected after the batteries have been installed, the camera lens unit automatically retracts and the power turns off. Please turn on the power again to resume operation.
- Batteries can be installed while the AC adapter is connected. However, if the AC adapter is disconnected after the batteries have been loaded, the camera power is automatically turned off but the lens will remain extended. If this happens, please turn on the power to resume operation.

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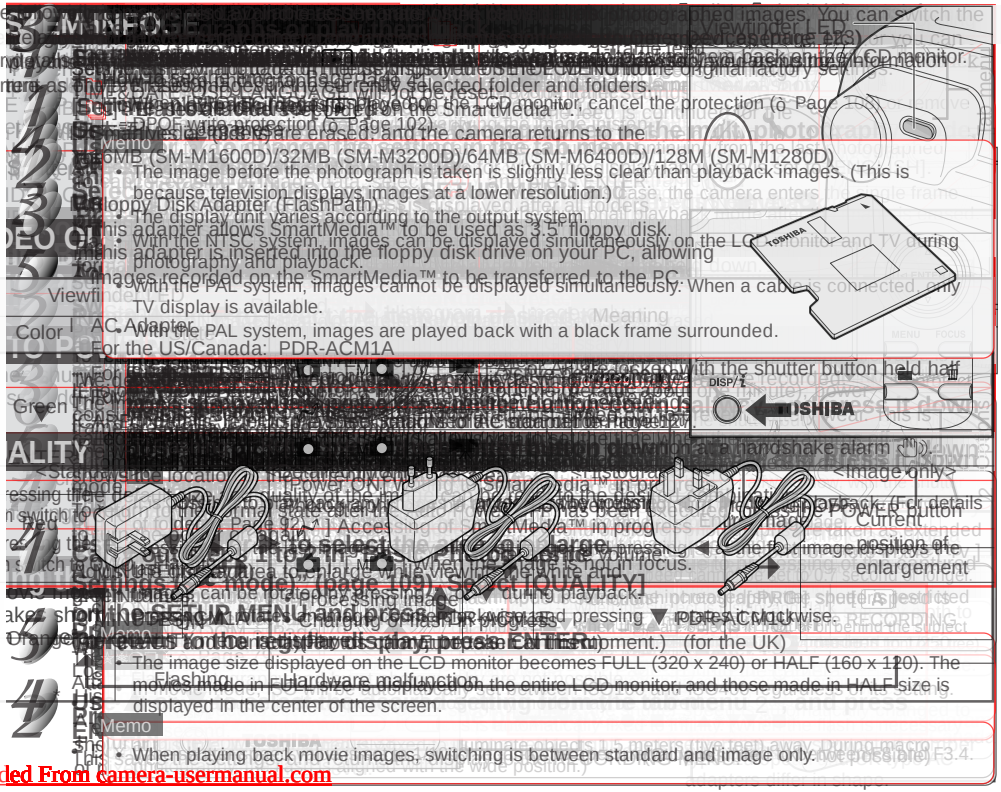

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- Take care not to touch the SmartMedia™'s electrodes (metal contacts) or allow the electrodes to become soiled. Use a dry lint-free cloth to wipe away any dirt.
- To avoid damage caused by static electricity during transportation or storage, always use the special static-free case provided.
- If you are not using the camera for a long period of time, remove the SmartMedia™ and store it in a safe place.
- Inserting a SmartMedia™ that is charged with static electricity into your camera may cause it to malfunction. If this occurs, switch the camera OFF and then ON again.
- The SmartMedia™ may feel warm when it is removed from the camera after the camera is used for a long time. This is normal and not a malfunction.
- The SmartMedia™ has a limited service life. If images can no longer be written or erased, buy a new SmartMedia™.
- Use the index labels provided with the camera. If you attach a commercially available label, it may cause a malfunction when the SmartMedia™ is loaded or removed.

Loading SmartMedia™

1 **Press the POWER button to turn the power off.**

☞ Turning the Power Off ➲ Page 38

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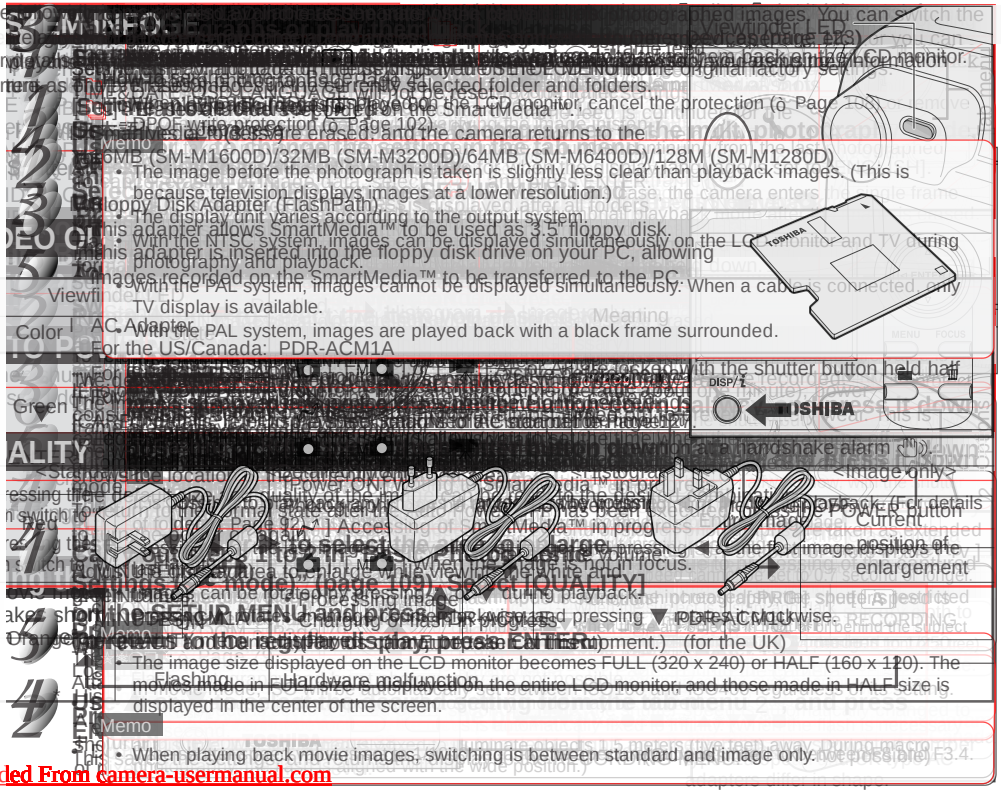

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Removing SmartMedia™

IMPORTANT

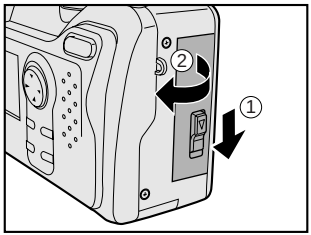
- Never open the SmartMedia™ cover or remove the SmartMedia™ while data is being recorded to the SmartMedia™ (viewfinder LED is lit red). This might damage the SmartMedia™ or corrupt the data on the SmartMedia™.

1 Press the POWER button to turn the power off.

☞ Turning the Power Off ➲ Page 38

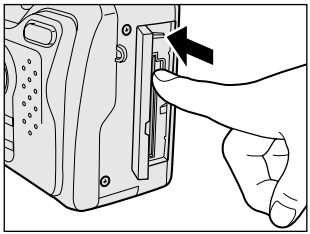
2 Slide the SmartMedia™ cover release knob in the direction of the arrow ① to open the cover ②.

The cover opens ②.



3 Push the SmartMedia™ in as far as it can go, and pull it out with your fingers.

If you push SmartMedia™ once in as far as it can go, it will protrude slightly. Pull it out with your fingers.



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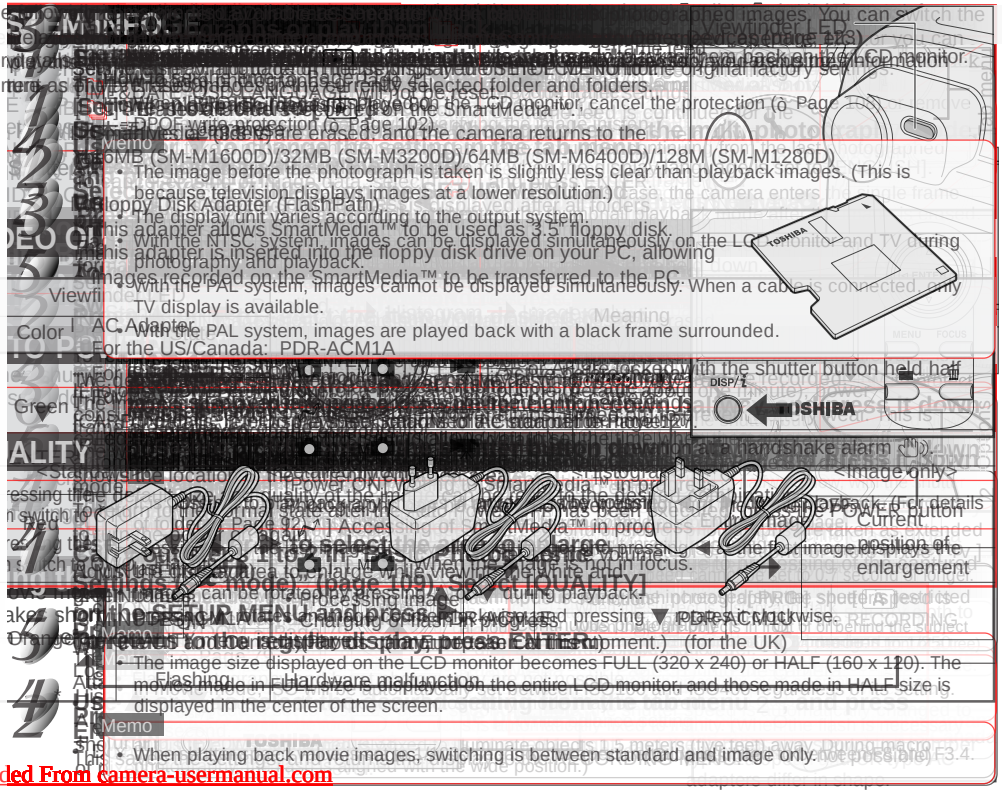
Setting the Color of the Viewfinder LED (Viewfinder LED)



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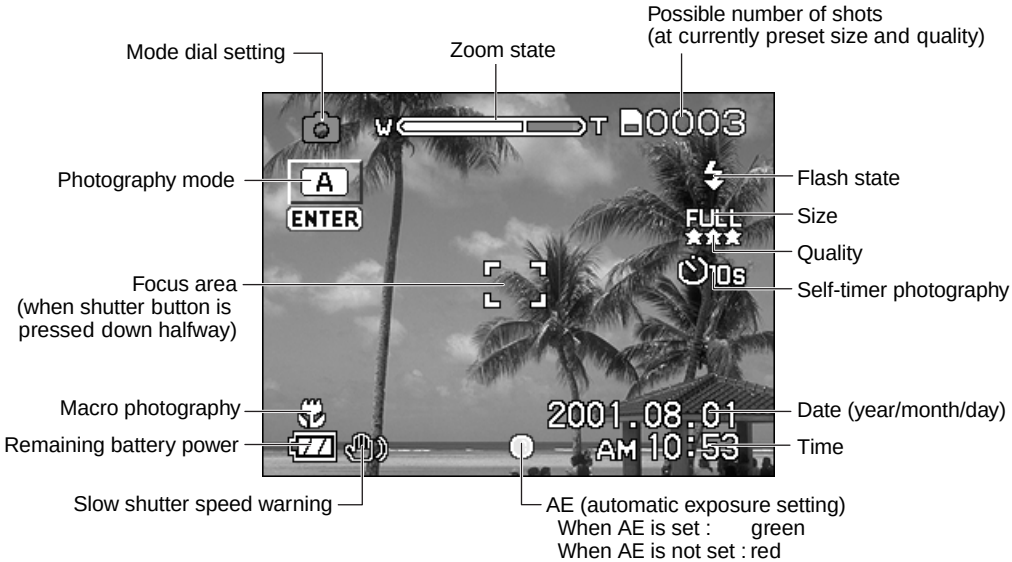
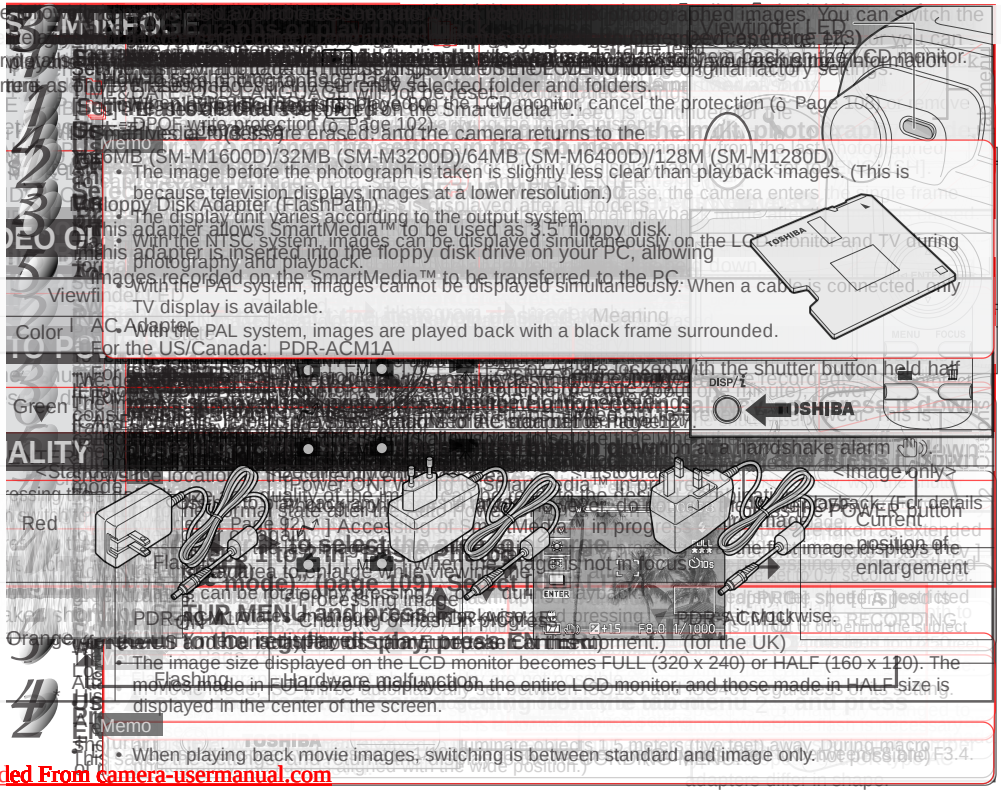
LCD Monitor Display (during photography)

The text, numbers and icons that are displayed on the LCD monitor vary according to the current settings.
The LCD monitor automatically turns ON if necessary even if it is set to OFF.
For details on the [▶] playback mode, see page 116.

In [📷] mode



Downloaded From camera-usermanual.com



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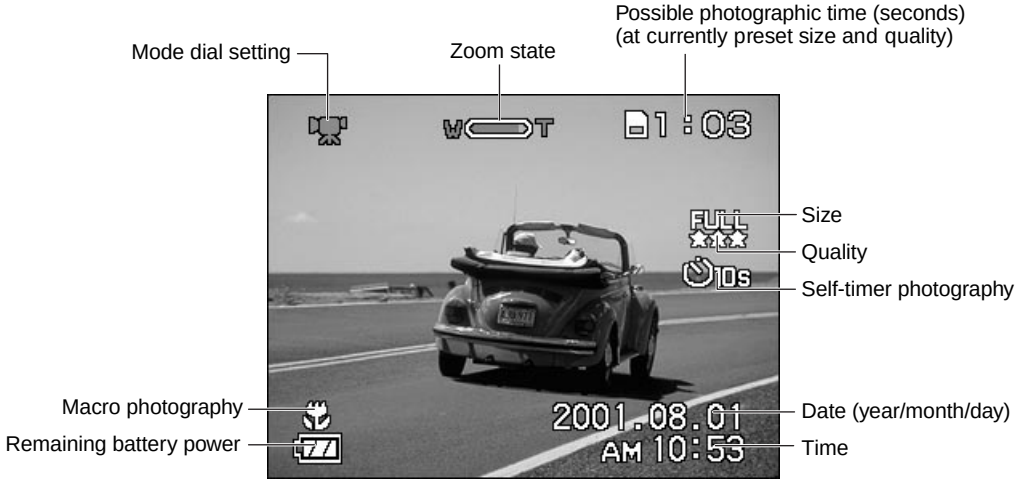
In [ ] mode



Memo

- The size of the data to be recorded varies according to the amount of detail in the subject image. So, the number of images that can be photographed after an image is recorded sometimes doesn't decrease.
- The display is momentarily interrupted after recording an image or the mode is switched. This does not affect photography.

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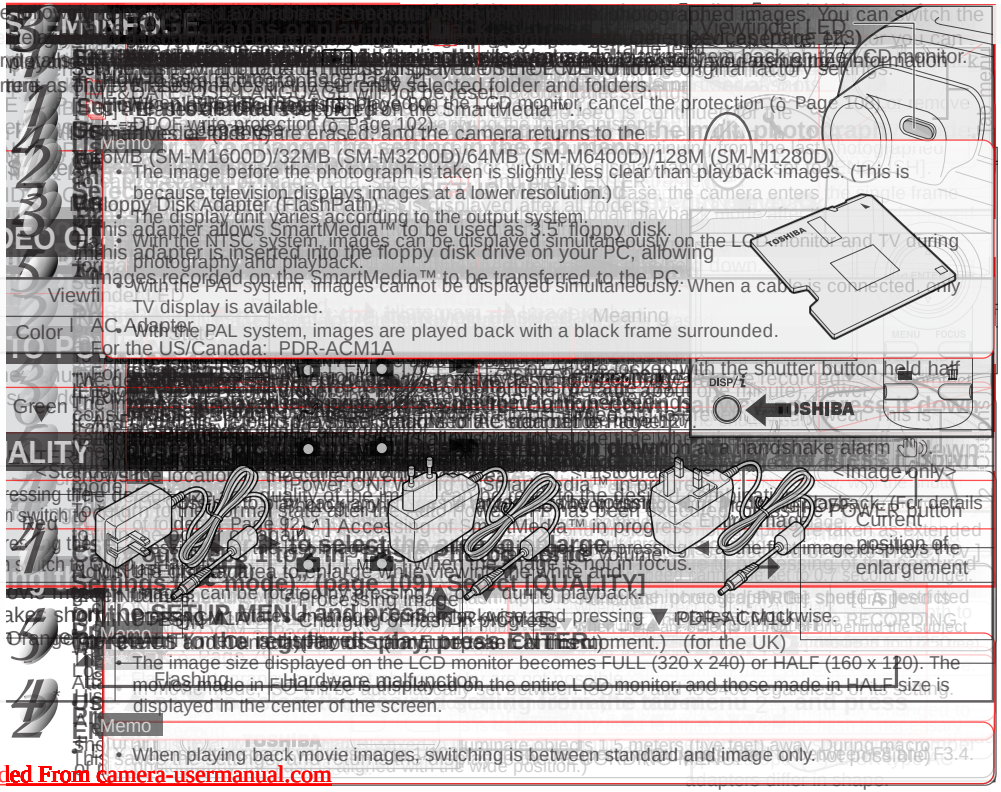

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How to Hold Your Camera

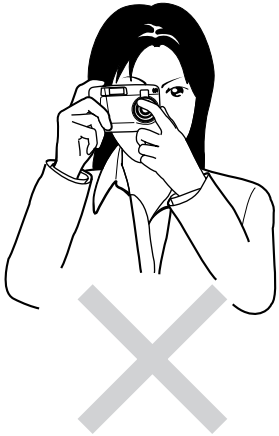
When taking a photograph, hold the camera firmly and prevent your finger or shoulder strap from covering the lens, flash or flash sensor.

Right

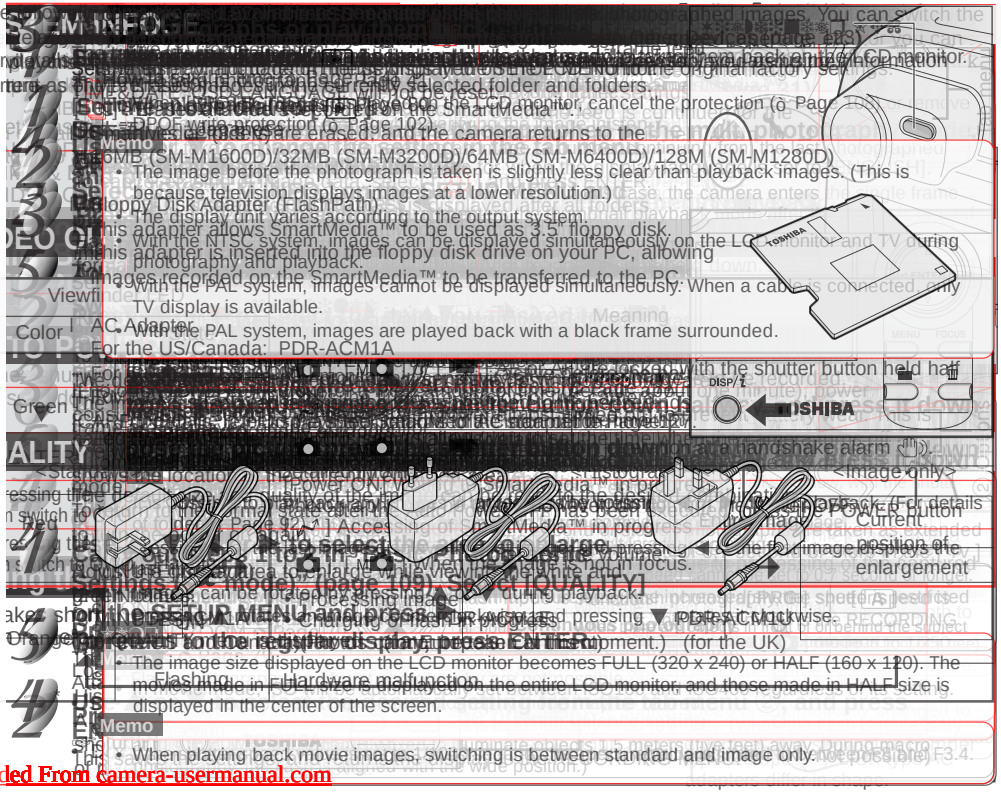
Camera held with both hands with your arms firmly held against the sides of your chest

Wrong

Fingers held over the lens



Downloaded From camera-usermanual.com



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Photography (Auto Photography)

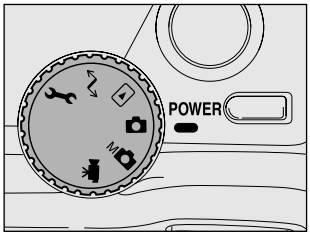
This is the most commonly used photography mode.
In this mode, exposure (combination of shutter speed and aperture) is automatically controlled to facilitate photography. There are two ways of taking photographs in this mode: using the viewfinder and using the LCD monitor.

Using the Viewfinder

1 Get ready to take the photograph.
Loading the batteries (Page 25) and the SmartMedia™ (Page 31) into the camera.

2 Press the POWER button to turn the power on.
☞ Turning the Power On Page 38

3 Set the mode dial to [ ].
Remove the lens cap beforehand.
If not, an error message will be displayed. (129)



4 Turn the LCD monitor OFF. (Page 117)
To reduce the amount of battery wear, we recommend turning the LCD monitor display OFF, and using the viewfinder to take photographs.

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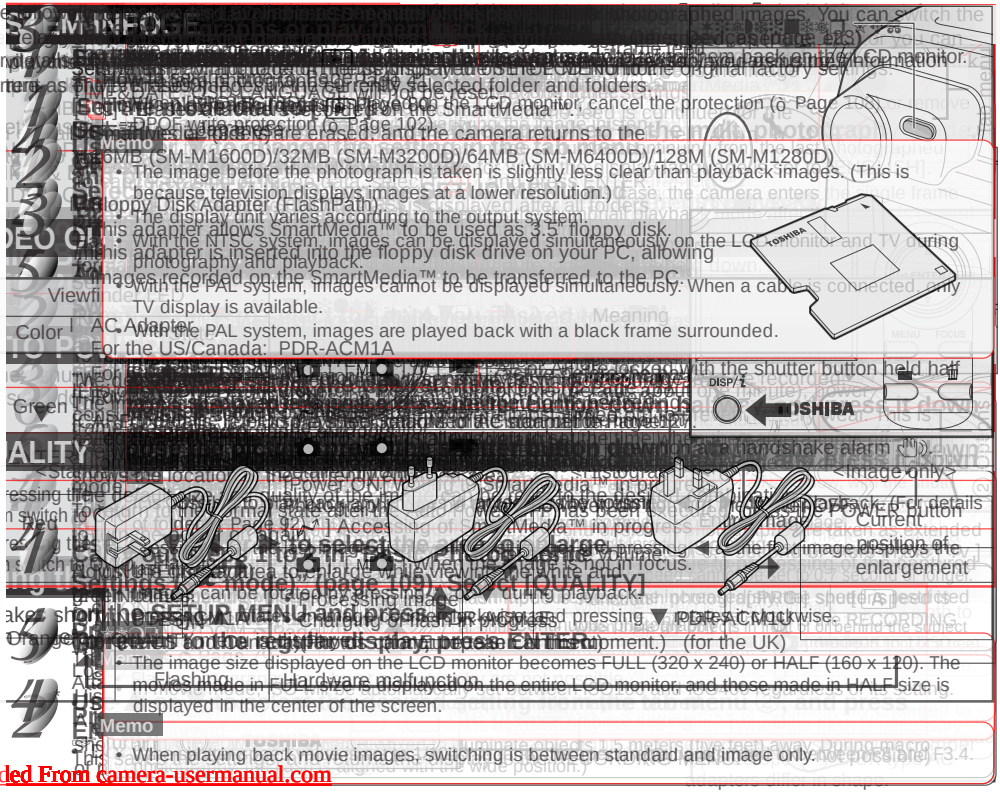

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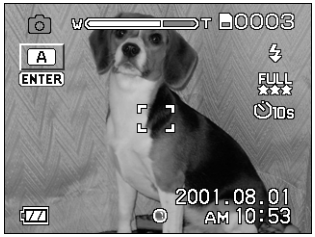
3 **Set the mode dial to [📷].**

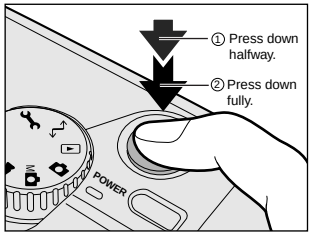
4 **Look at the image on the LCD monitor to compose the picture.**

☞ To adjust the brightness of the LCD monitor ⭘ Page 115



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

- Pressing the shutter button down halfway adjusts the exposure, and pressing the shutter button down fully takes the shot.
- When the focus and exposure are correctly adjusted, the viewfinder lamp lights (green), and the AF icon turns green.
- If you shoot a still picture, when preview is set to ON (⭘ Page 77), the recorded image is displayed on screen for about two seconds.
- The viewfinder LED turns red while image data is being recorded onto the SmartMedia™.



Memo

- The LCD monitor sometimes displays bright, dark or colored spots at all times. This is not a malfunction. These spots do not appear in the photographed image.

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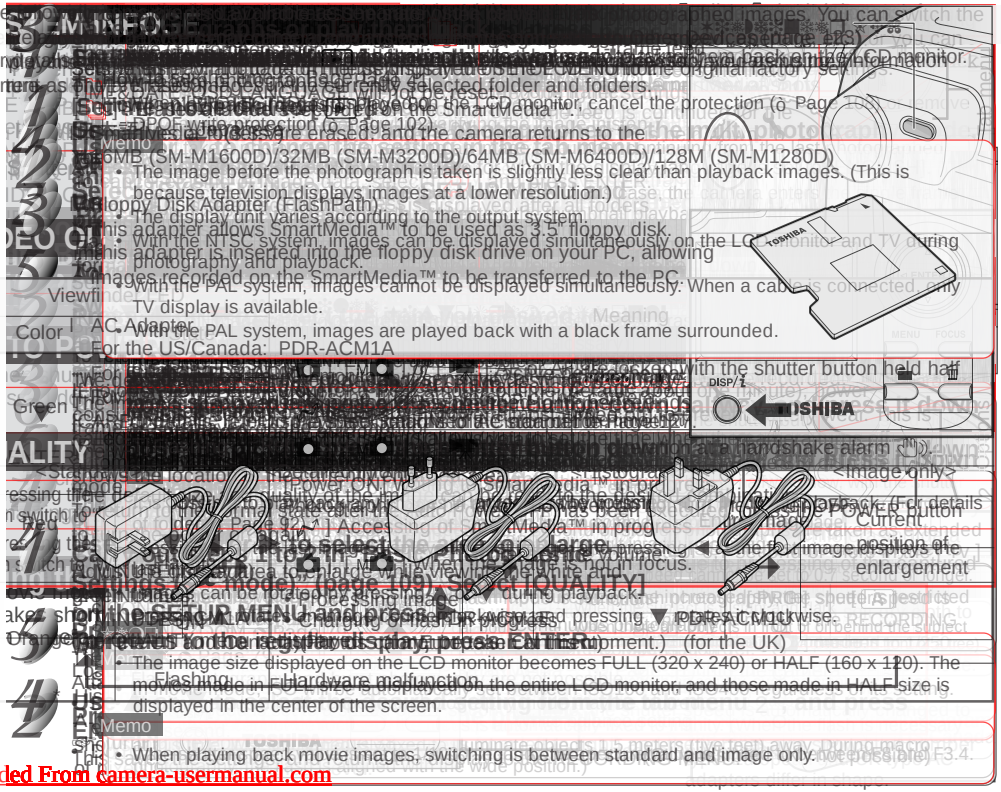

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<Quality> [★★★] FINE : 1/5 (JPEG) compression
[★★] NORMAL : 1/7.5 (JPEG) compression
[★] BASIC : 1/15 (JPEG) compression
} (still image)

The more stars there are, the better image quality becomes. Higher quality images, however, take up more memory space, reducing the number of images that can be taken or the possible photographic time.

<Size> [ ] FULL : 2400 x 1600 pixel (still image), 320 x 240 pixel (movie)

[ ] HALF : 1200 x 800 pixel (still image), 160 x 120 pixel (movie)

[ ] SMALL : 720 x 480 pixel (still image)

The larger size improves the quality of the image. Higher quality images, however, take up more space, reducing the number of images that can be taken or the possible photographic time.

3 Take the photograph.

☞ For details on how to take photographs ➲ Photograph

Memo

- To make the image smaller, it is more effective to reduce the size first and then reduce image quality.
- After you have taken a photograph, you can reduce its size (➲ Page 94) and quality (➲ Page 96).
- The memory size of the image varies according to the subject.
- The compression ratio is given for reference only.
- In the movie mode, the quality and size setting changes in the following order, regardless of the image quality setting.

FULL★★ → FULL★★★ → HALF★
↑ ↓
FULL★ ← HALF★★★ ← HALF★★

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Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (ò Page 34).

Try out steps 1 to 3 in "Protecting An Image" (ò Page 106).

Protecting an Image

saved as a single image.

write-protected.

monitor.

MENU FOCUS

ENTER

TOSHIBA

Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders ò Page 92

DISP/i

TOSHIBA

Step 3 "Protecting An Image" (ò Page 107).

ENTER.

Do not remove the SmartMedia™ or turn the camera off while images are being copied until CHANGE CARD appears on the screen. This might damage the SmartMedia™.

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (ò Page 102.)

TOSHIBA

fully. ò Page 40

shutter button is pressed halfway down.

- Before photographing, the flash icons on the LCD monitor are displayed in yellow when the flash is charged.
- Before photographing, the flash icons on the LCD monitor are displayed in yellow when the flash is charged.

If more than one image is selected, it is not possible to increase the size of an image, or to restore photographs that were deleted.

- It is not possible to reduce the size of an image. It is not possible to increase the size of an image, or to restore photographs that were deleted.
- Images are erased even if the camera is turned off or the Auto Power OFF function is activated.

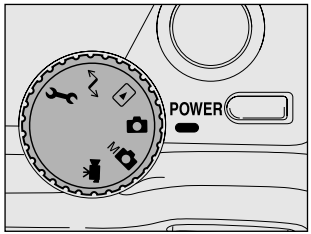
Downloaded From camera-usermanual.com

- 96 -

Taking Photographs in a Variety of Modes ([SCENE▶] Mode)

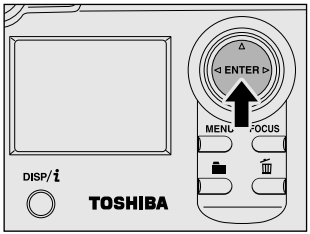
Set the appropriate scene mode from: [A] automatically adjusts the focus and exposure settings, [ ] portrait, [ ] landscape, [ ] sports, [ ] night, [ ] multi photography mode options.

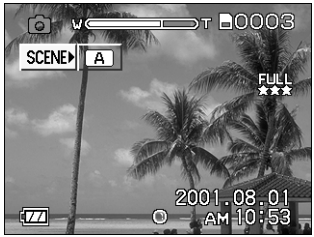
1 Set the mode dial to [ ].



2 Press ENTER.

[SCENE▶] is displayed on the LCD monitor.





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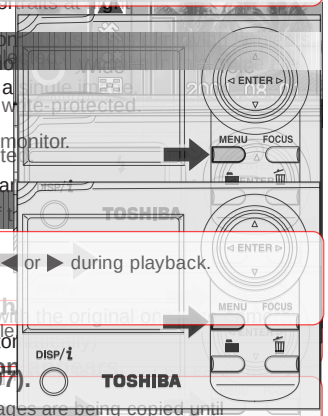
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (Ú Page 34).

Try out steps 1 to 3 in "Protecting An Image" (Ú Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders Ú Page 92

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (Ú Page 102.)

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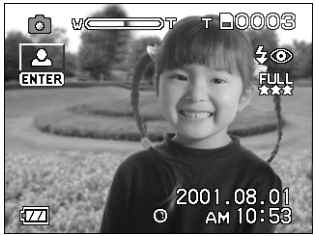
- 96 -

[A] Automatically adjusts the focus and exposure settings

The camera automatically adjusts the focus and exposure settings to take photographs.

[Portrait]

Select this option to make people stand out with the background out-of-focus.



[Landscape]

Select this option to take photographs of distant scenery or landscapes.

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Removing the Protection

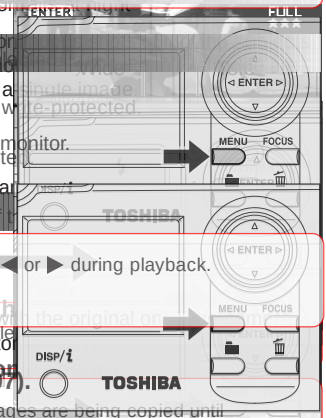
IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (Ú Page 34).

Try out steps 1 to 3 in "Protecting An Image".

(Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

About Folders Ú Page 92

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (Ú Page 102.)

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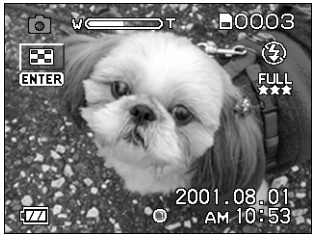
[ ] 16-frame multi

This mode takes 16 shots continuously at 0.13 second intervals (7.5 frames/second). The 16 photographed images are saved as one image (FULL size: 2400 x 1600 pixels).
This mode is effective for continuously photographing moving subjects.



Memo

- Though zoom playback is not possible, playback of multi image pictures (Page 86) is possible.
- Digital zoom photography is not possible.
- Photographs cannot be taken at HALF size or SMALL size. When HALF size or SMALL size is set before you select multi photography, the setting is automatically changed to FULL size. When multi photography is canceled, the setting returns to HALF size or SMALL size.

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Removing the Protection

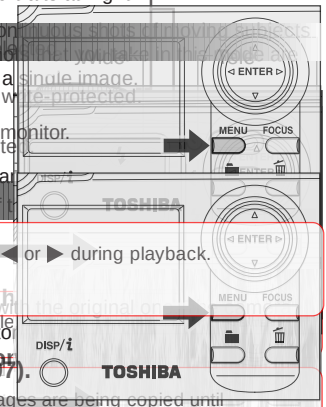
IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (Ú Page 34).

Try out steps 1 to 3 in "Protecting An Image".

(Ú Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders Ú Page 92

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (Ú Page 102.)

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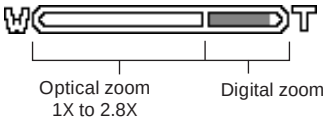
Digital Zoom Photography

To set the digital zoom:
① Press the MENU button.
② Use ▲ or ▼ to select [DIGITAL ZOOM] and press ▶.
③ Use ▲ or ▼ to select [APPROVED] and press ENTER.
④ Press the MENU button.
⑤ To activate digital zoom, press the Zoom switch completely towards the "T" and hold it until the image on the LCD expands.

3 Press the shutter button down halfway, and press it down fully. ☞ Page 40

Memo

- The digital zoom photography is canceled by pressing the DISP/*i* button to turn the LCD monitor off. On the LCD monitor display off status, the digital zoom photography is not possible as well.
- The digital zoom photography is not possible in the 16-frame multi mode.
- The Zoom switch setting is automatically canceled by either turning the camera OFF or by activation of the Auto Power OFF function.
- You can check the zoom status in the LCD monitor.



- In movie mode, only the 2.2X digital zoom photography is possible.

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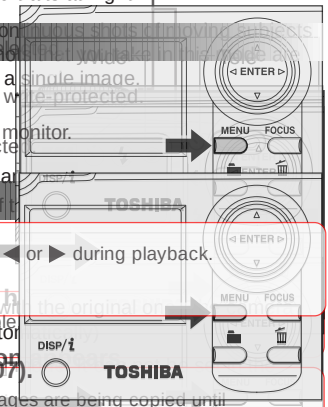
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (Ú Page 34).

Try out steps 1 to 3 in "Protecting An Image" (Ú Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders Ú Page 92

Press ▲▼ to select [PROTECT], then press ENTER.

Press ▲▼ to select [SET], then press ENTER.

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (Ú Page 102.)

Press MENU. The screen returns to the PLAYBACK MENU.

- Images protected with other devices cannot be deleted with this camera. To delete these images, cancel the protection with the device that was used to protect the images.
- It is not possible to protect images recorded with other devices.
- Protected images will be deleted if the camera is turned off or the Auto Power OFF function is activated.

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Self-timer Photography

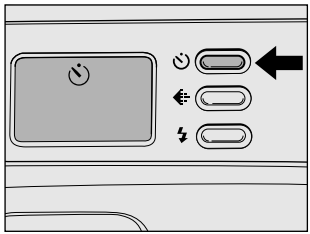
When the self-timer is used, the camera automatically takes a picture after the preset time (2 or 10 seconds).

1 Set the mode dial to [📷] [M📷] or [🎬].

2 Press the ⏲ self-timer button while viewing the status display area.

When you press the self-timer button, the following are displayed in order on the LCD monitor.

[No display] setting OFF → [⏲10s] 10 seconds → [⏲2s] 2 seconds



3 Compose the picture.

4 Press the shutter button down halfway, and press it down fully. **Page 40**

The self-timer LED lights red, and then flashes. The photograph is then taken after the preset time (2 or 10 seconds).
When photographs are taken using the LCD monitor, the count down is displayed.
To cancel photography midway, press ▼.

Memo

- Burst photography is not possible.
- In movie mode, press the shutter button down fully to stop recording.
  If this operation is not performed, photography is automatically stopped when the SmartMedia™ runs out of free space or when the size of a single picture has reached the maximum recordable size.

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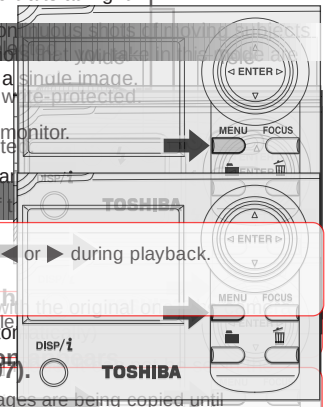
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (ò Page 34).

Try out steps 1 to 3 in "Protecting An Image" (ò Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders ò Page 92

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (ò Page 102.)

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[No display] Auto

In this mode, the flash fires automatically according to the photography conditions. This mode is ideal for general photography where you are not trying to achieve any particular effect.

[⚡👁] Red-Eye Forced Flash

Use this mode to avoid the red-eye effect (➲ Additional Information, Glossary) when photographing people in low-light conditions.
Red-eye is reduced more effectively if the subject looks directly towards the camera. Effectiveness is also increased if the distance between the subject and camera is kept as short as possible.

[⚡] Forced Flash

In this mode, the flash always fires. Use the Forced Flash mode when the subject is backlit, or in artificial light (fluorescent lighting, etc.).
The flash also fires during macro photography.

[⊘] Suppressed Flash

Use the Suppressed Flash mode when you are taking pictures in indoor lighting at distances too great for the flash to have any effect, such as theater performances or indoor sporting events.

Memo

- In [▲], [🔧] or [▦] mode, flash photography is not possible.
- In [👤] mode, flash photography is fixed to red-eye auto.
- In [👤★] mode, flash photography is fixed to slow synchro.
- In the flash photography mode, the flash always fires twice. A picture is taken at the second firing.

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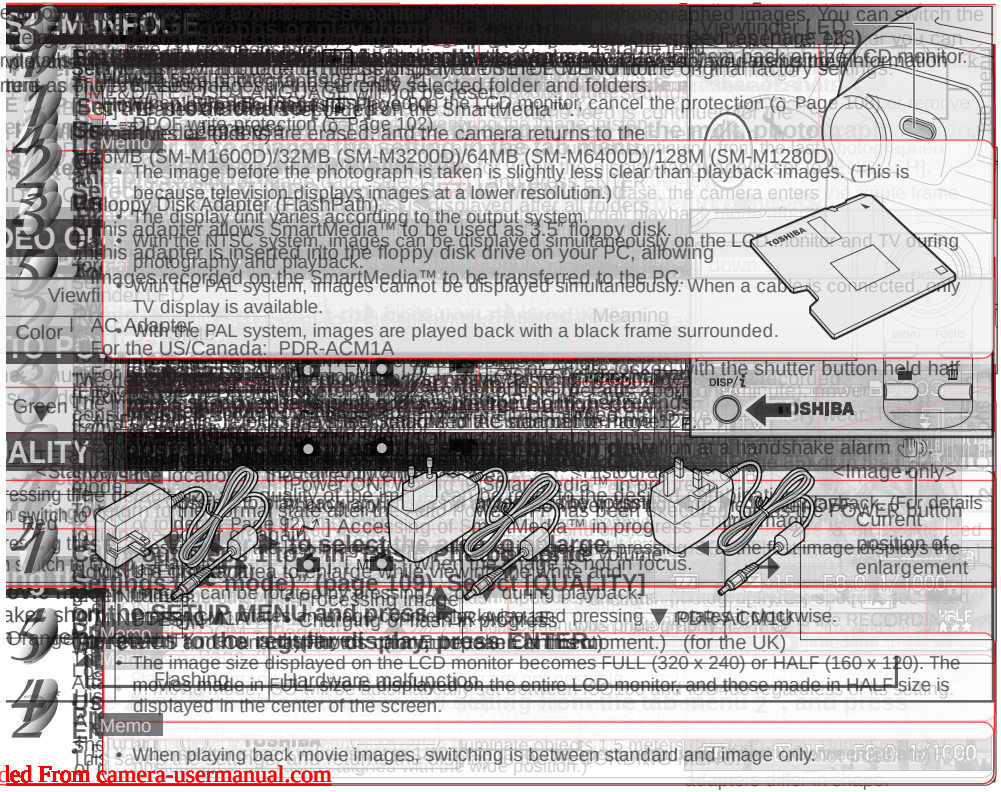

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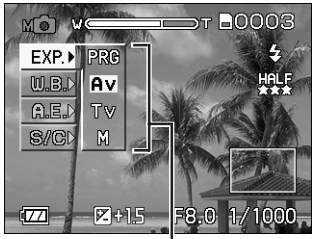
3 **Press ▲ or ▼ to select the setting item.**

4 **Press ▶ to display option menu, press ▲ or ▼ to select options and press ENTER.**

Pressing ENTER selects the setting. To cancel, press ◀.

☞ [EXP.] Exposure control ➲ Page 60
[W.B.] White balance ➲ Page 60
[A.E.] Metering system ➲ Page 61
[S/C] Single, continuous or AEB photography mode ➲ Page 61



Set values

5 **Press ENTER.**

The camera is ready to take photographs.

6 **Compose the picture, press the shutter button down halfway, and press it down fully. ➲ Page 40**

The camera takes the picture.

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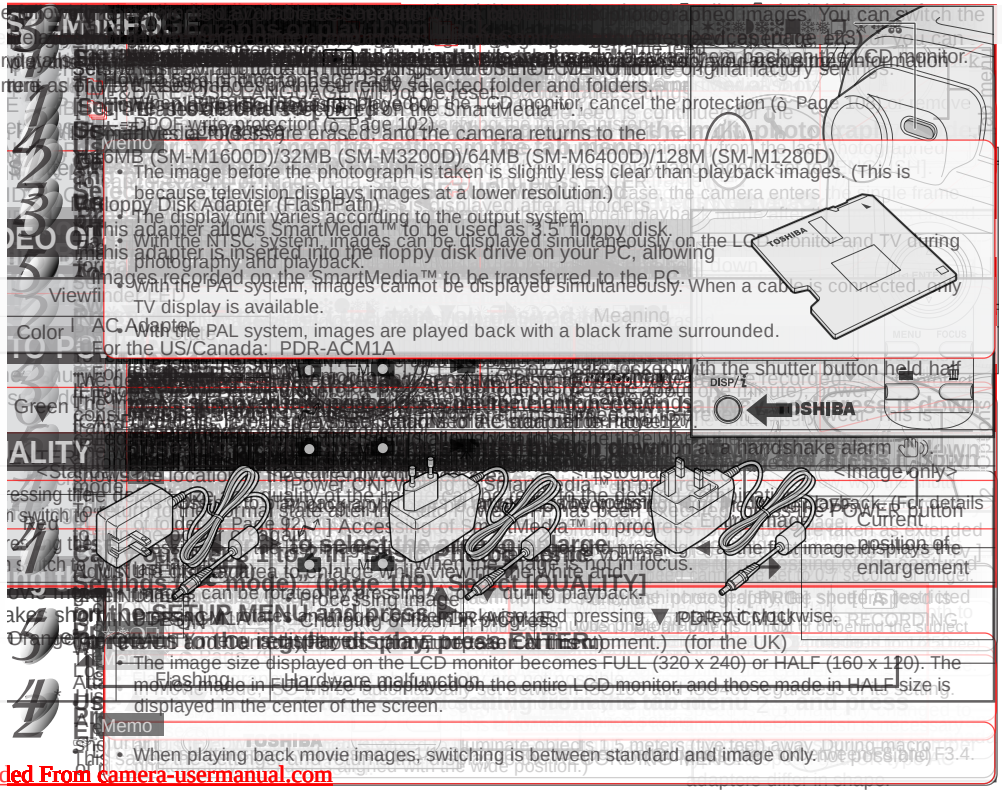

Downloaded From camera-usermanual.com

Metering system (A.E.)

The camera calculates the exposure level before a photograph is taken.

[⊡] : Multi metering (default)
The exposure is measured and calculated for the entire area of the screen.
By dividing the entire area of the screen, the exposure level for each unit is calculated. A well balanced exposure can be obtained.

[⊙] : Spot metering
The exposure is measured in a very small area at the center of the screen.
It is possible to calculate the exposure of a subject without being affected by the surrounding environment.

Single, continuous or AEB photography mode (S/C)

[□] : Photography in 1-shot mode (default)
[⧉] : Photography in burst mode (Page 72)
[AEB] : Photography with the Automatic Exposure Bracketing (Page 71)

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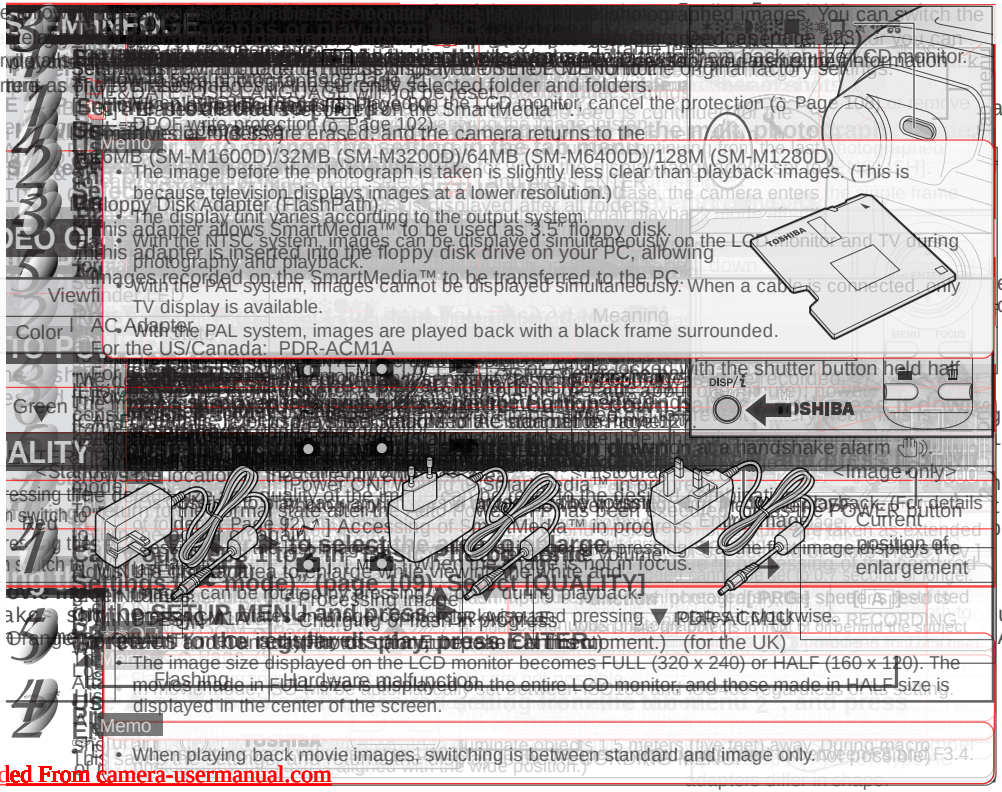

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Photography in the Aperture-priority Mode

In this mode, photographs are taken with the priority given to aperture. The camera automatically sets the shutter speed according to the aperture.
A small aperture value produces a portrait photo with an out-of-focus background. The smaller the aperture value, the more out-of-focus the background becomes.
A large aperture value produces sharp images on both close objects and distant objects like landscapes. The larger the aperture value, the larger the area for sharp images.

1 **Carry out steps 1 to 2 in “Manual Settings” (page 58).**

2 **Press ▲ or ▼ to select [EXP.].**

3 **Press ▶ to display option menu, press ▲ or ▼ to select [Av] and press ENTER.**
Pressing ENTER selects the setting.

4 **Press ENTER.**
The camera is ready to take photographs.

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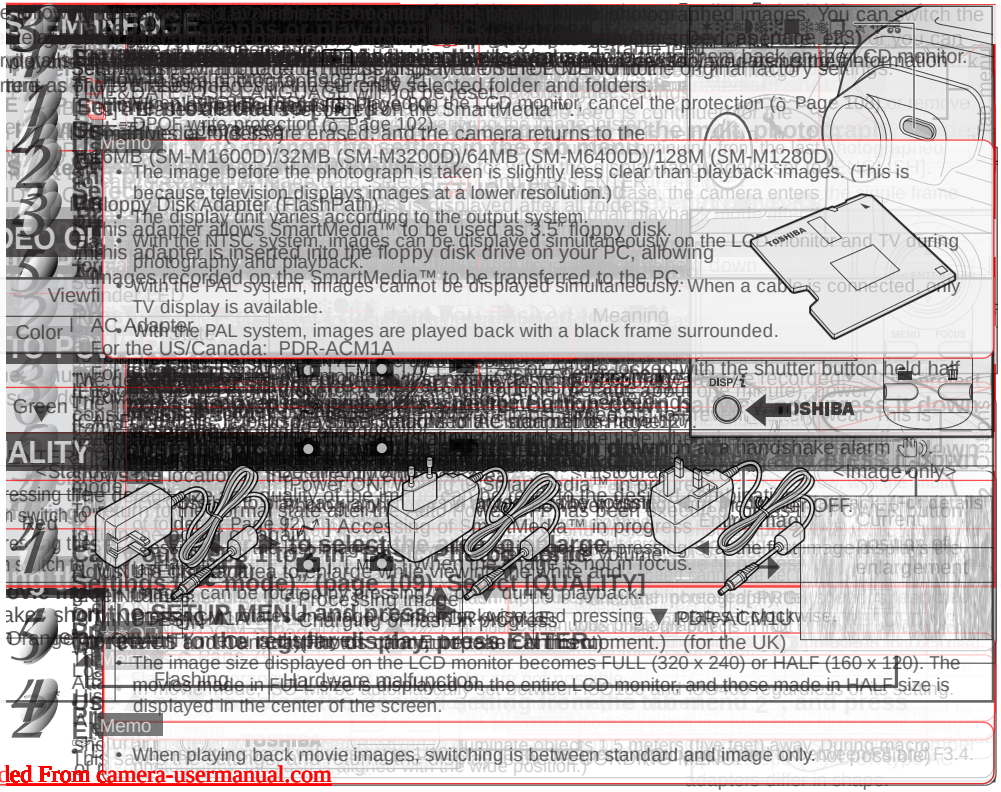

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Photography in the Shutter Speed-priority Mode

In this mode, photographs are taken with the priority given to shutter speed. The camera automatically sets the aperture value according to the shutter speed.
A fast shutter speed produces a photograph that looks as if a moving subject is still.
A slow shutter speed produces as photograph that makes you feel that it is flowing.

1 **Carry out steps 1 to 2 in “Manual Settings” (page 58).**

2 **Press ▲ or ▼ to select [EXP.].**

3 **Press ▶ to display option menu, press ▲ or ▼ to select [Tv] and press ENTER.**
Pressing ENTER selects the setting.

4 **Press ENTER.**
The camera is ready to take photographs.

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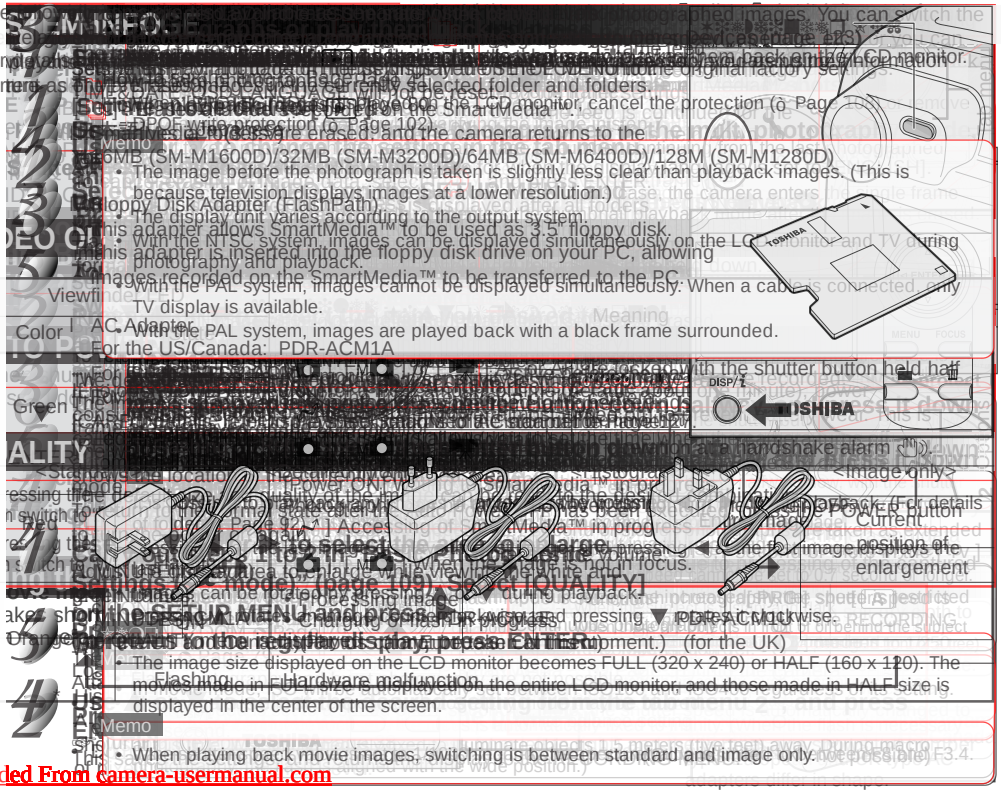

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Photography in the Full Manual Mode

Set the aperture and shutter speed values separately before taking a photograph.

1 **Carry out steps 1 to 2 in “Manual Settings” (page 58).**

2 **Press ▲ or ▼ to select [EXP.].**

3 **Press ▶ to display option menu, press ▲ or ▼ to select [M] and press ENTER.**
Pressing ENTER selects the setting.

4 **Press ENTER.**
The camera is ready to take photographs.

5 **Pressing ▲ or ▼ to set the aperture value (Page 64), and pressing ▲ or ▼ to set the shutter speed value (Page 66) separately are also possible.**

6 **Compose the picture, press the shutter button down halfway, and press it down fully. Page 40**
The camera takes the picture.

Memo

- When pressing ▲ or ▼ in the full manual mode, the shutter speed is adjusted, but the exposure compensation setting is not possible. However the exposure value is displayed on the LCD monitor. When the exposure value is displayed in red, it shows over- or under-exposure.
  It is recommended that the shutter speed and the aperture value be adjusted to obtain the proper level of exposure.
- If the aperture value is set to F2.9 (increased aperture size), the shutter speed 1/1000 second is not available.

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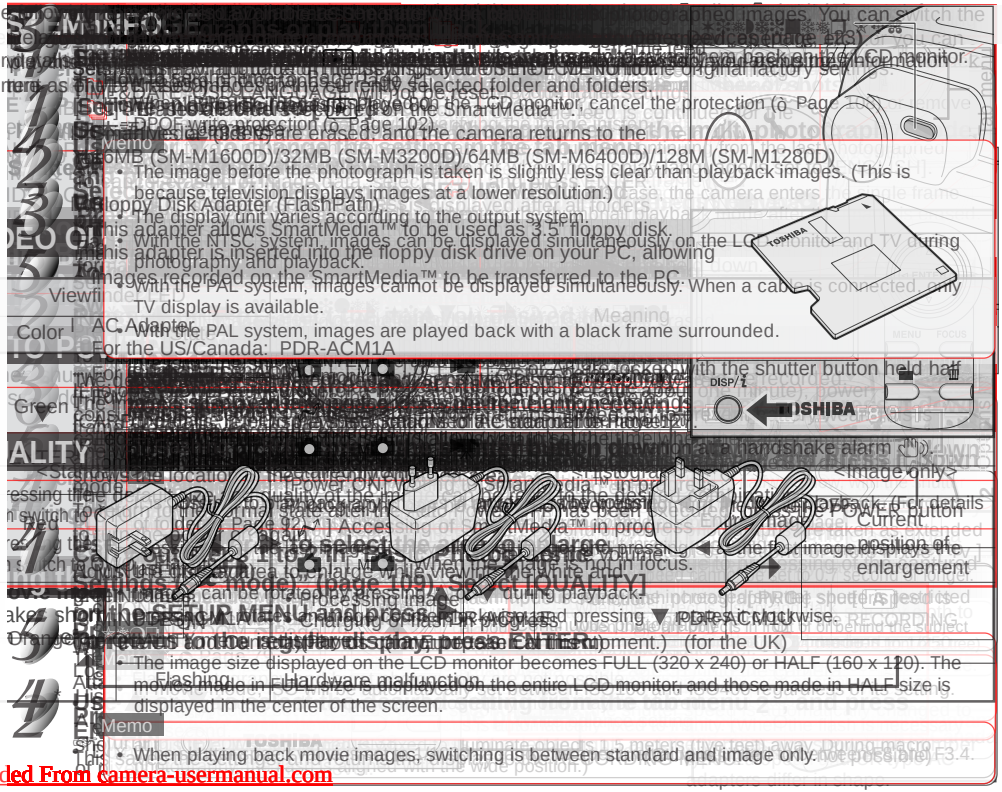

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Exposure Compensation

This setting allows you to intentionally lighten or darken the entire image. Use this setting when the optimum brightness (exposure) cannot be obtained, for example, when the brightness between the subject and the background is not balanced or when the subject to photograph occupies only an extremely small part of the screen.

1 Set the mode dial to [M📷].

2 Press ◀ or ▶ to adjust the exposure.

The setting range is as follows. A larger value lightens the exposure,and a smaller value darkens the exposure.
The value that you set is displayed on the LCD monitor.
Press ▶ to increase (brighten) exposure, and ◀ to decrease (darken) exposure.

Exposure Setting Value

◀ (to – side) ▶ (to + side)
-2.0 / -1.5 / -1.0 / -0.5 / 0 (default) / +0.5 / +1.0 / +1.5 / +2.0

3 Compose the picture, press the shutter button down halfway, and press it down fully. Page 40

The ideal brightness sometimes cannot be obtained even if a large exposure value is set in dark photographic conditions.
In this case, press the shutter button, and check the brightness in the preview image (photographed still image). (PREVIEW Page 77)

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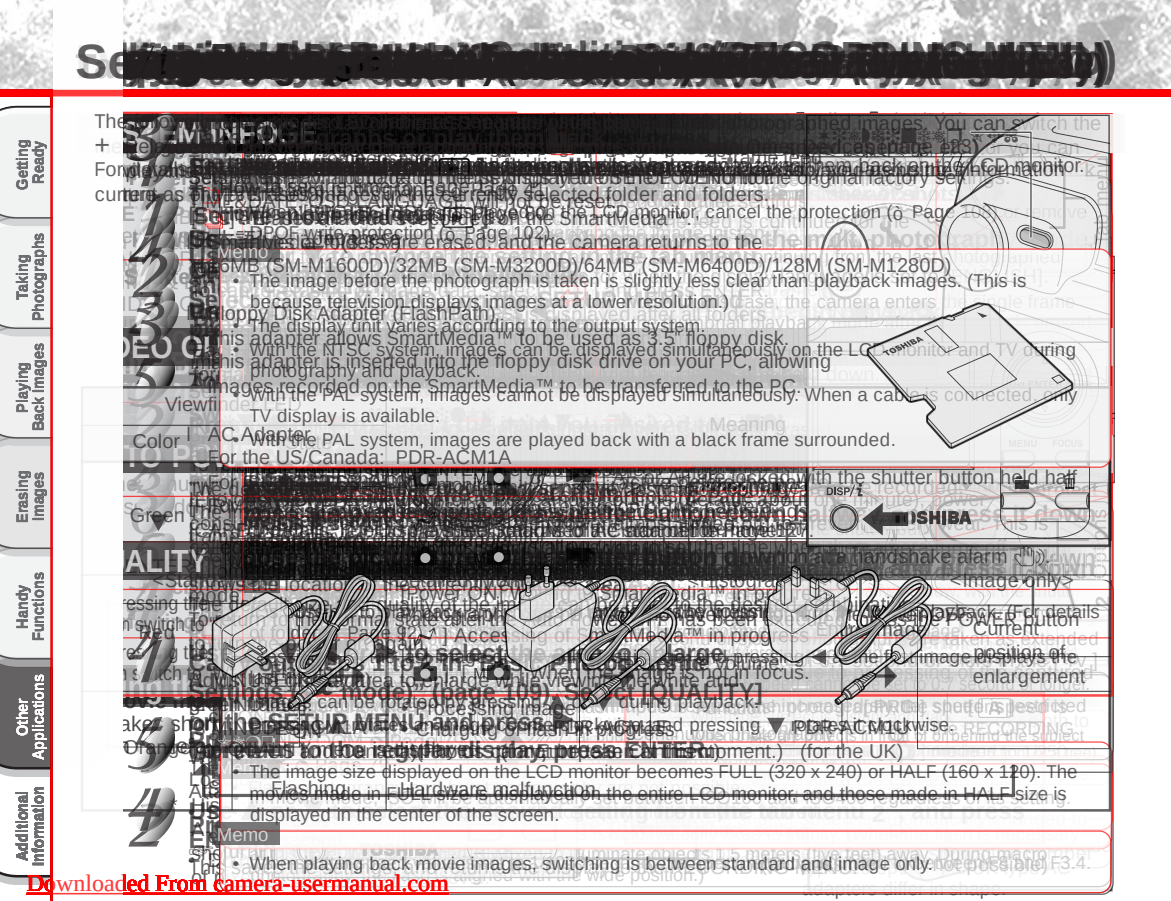

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Taking Shots With the Automatic Exposure Bracketing (AEB Photography)

When it is difficult to determine the necessary exposure compensation, this mode will automatically set the camera to photograph three consecutive pictures in -0.5, 0, and +0.5 compensation.

1 **Carry out steps 1 to 2 in “Manual Settings” (page 58).**

2 **Press ▲ or ▼ to select [S/C].**

3 **Press ▶ to display option menu, press ▲ or ▼ to select [AEB] and press ENTER.**
Pressing ENTER selects the setting.

4 **Press ENTER.**
The camera is ready to take photographs.

5 **Compose the picture, press the shutter button down halfway, and press it down fully. ↻ Page 40**
The camera will automatically take a picture in -0.5 compensation, 0 compensation, and +0.5 compensation.

Memo

- If burst photography is selected when the shutter speed is set to a speed of 0.7 second or longer, the shutter speed is automatically changed to 1/2 second.
- The camera takes three consecutive pictures in the order of standard exposure, overexposure (+0.5) and underexposure (-0.5) compensation.

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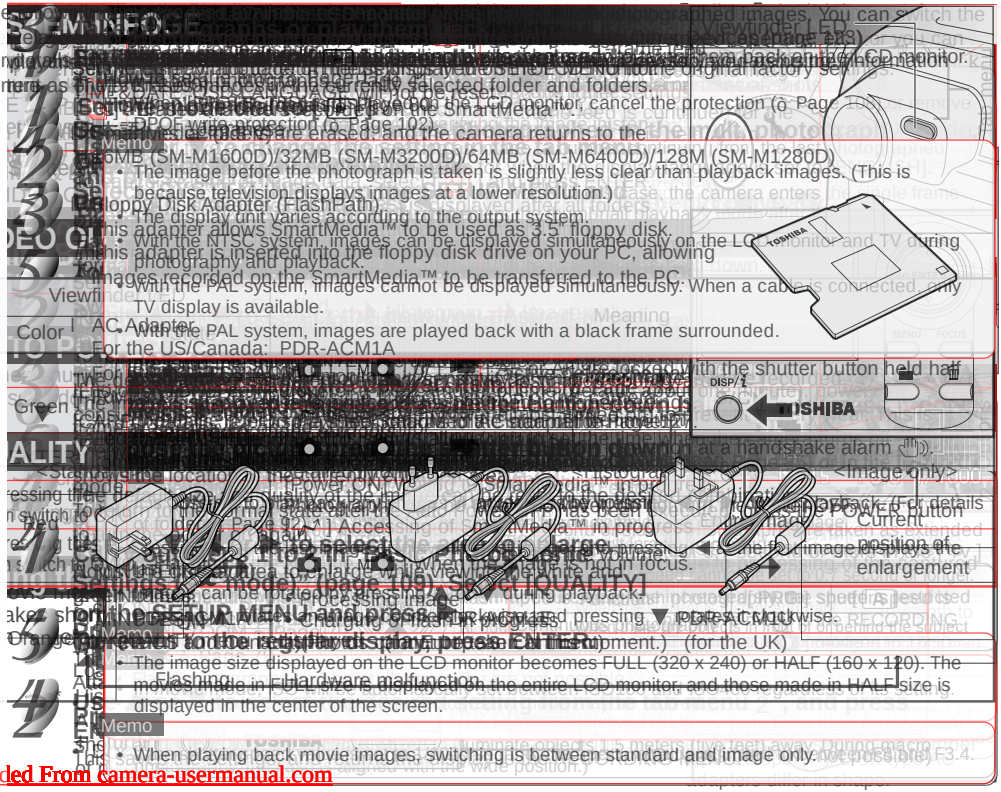

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5 Compose the picture, press the shutter button down halfway, and press it down fully. Page 40

The maximum number of photography that can be taken continuously is three.
If you release the shutter button before the camera captures three images, the camera will stop taking pictures at that point.
After photography is finished, the LCD monitor automatically turns ON.

6 Press ◀ or ▶ to verify the image.

You will be allowed to choose which image to save before it is recorded to the SmartMedia™.
The number of photographs stored in the memory is displayed at the bottom right of the screen, and the number in green is the image currently displayed.
The green indication also moves as you move the image to be displayed.

7 Use ▲ or ▼ to select the recording method.

The camera is set to erase all images immediately after photography.

①[☐✓] : This setting is for saving and erasing the selected image.
Press ◀ or ▶ to select the image, and press ENTER.
The red ✓ mark appears under the selected image. To cancel selection of the image, press ENTER again.

②[⧉✓] : This setting is for saving all images.
Press ENTER.
All images are selected, and all images with 🗑 turns into a red ✓.
This item cannot be selected if there is not enough space on the SmartMedia™.

③[⧉🗑] : This setting is for erasing all images.
Press ENTER.

① to ③ can be combined regardless of their order to set saving and erasing of images.

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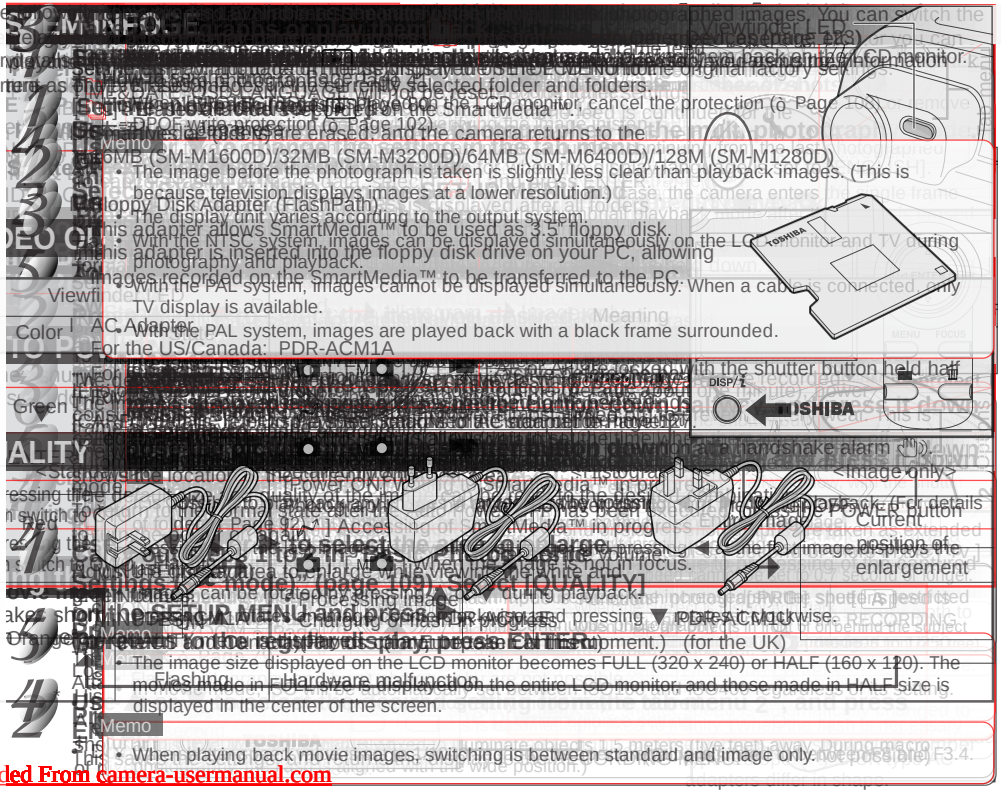

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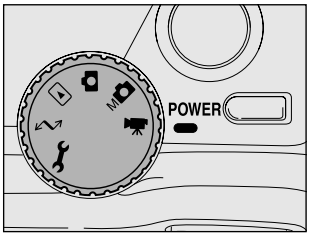
Making Movies

Make a movie of moving images. Audio can also be recorded.

1 Set the mode dial to [ ].



2 Compose the picture, press the shutter button down halfway, and press it down fully. Page 40

Photography begins.
The maximum photography time (seconds) appears on the LCD monitor and on the status display.

3 To stop making movies, press the shutter button down fully again.

If you do not do this, photography is automatically stopped when there is no more free space on the SmartMedia™, or when the maximum size that a single movie can be recorded is reached. (Maximum photography time Page 124)

Memo

- Flash photography is not possible.
- The image size displayed on the LCD monitor becomes FULL (320 x 240) or HALF (160 x 120). The movie made in FULL size is displayed on the entire LCD monitor, and that made in HALF size is displayed in the center of the screen.
- When making a movie, there's a risk of lens motor noises being recorded on the sound track.
- When making a movie, only digital zoom photography is available.

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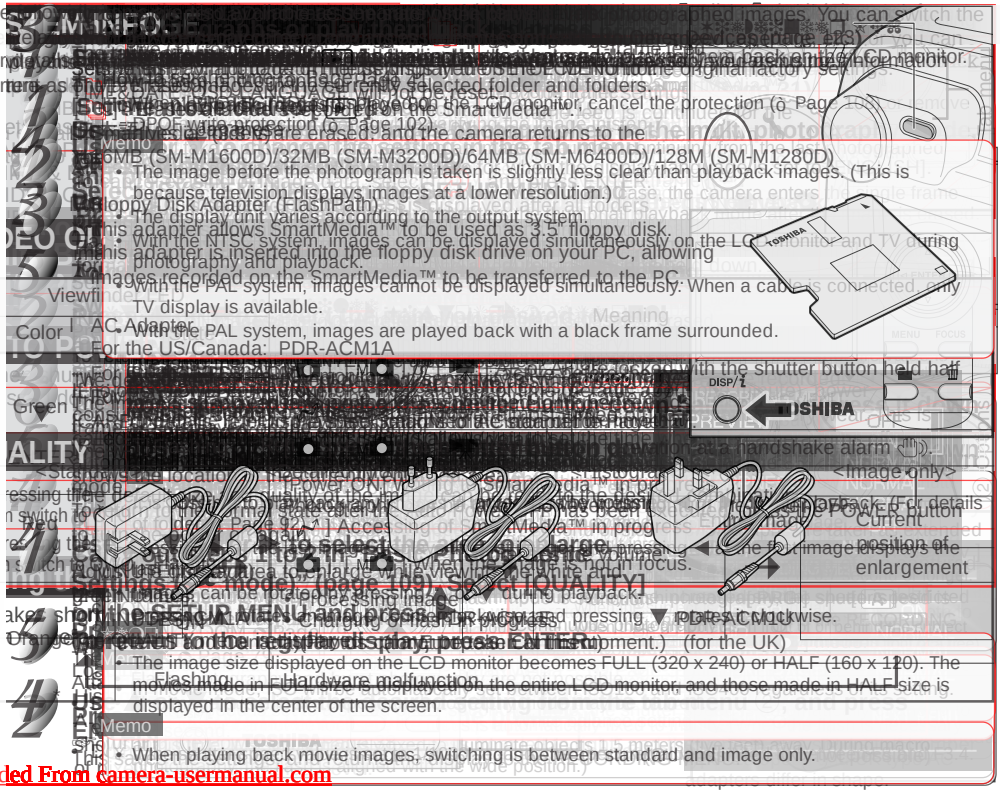

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5 **To quit the RECORDING MENU, press the MENU button.**
The camera is now ready to take photographs.

PREVIEW

This setting allows you to display a photographed image on the LCD monitor for two seconds immediately after you have taken the shot.
This allows you to check the composition and brightness of the photographed image.
Note, however, that detailed areas are sometimes lacking detail as the resolution of preview images is low. To check detailed areas and focus, check it in the [▶] playback mode (Page 80).
To cancel preview, press the shutter button halfway down again.
The three images that you took are displayed for about two seconds each in the AEB photography mode (Page 71)

[OFF] : Do not display preview (default)
[ON] : Display preview

COLOR

Set the color of the image to be photographed.

[STANDARD] : Standard color (default)
[VIVID] : Vivid color
[MONOCHROME] : Black and white
[SEPIA] : Sepia

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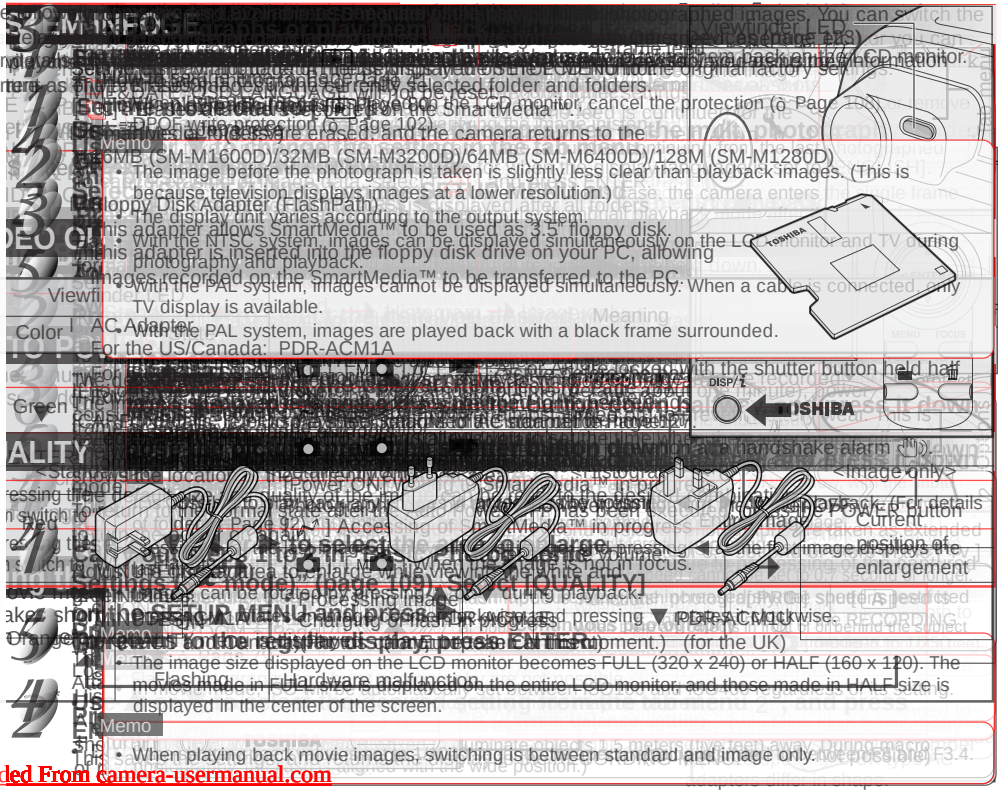

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SHARPNESS

Sets the sharpness at which the image is to be recorded.

[NORMAL] : Normal sharpness (default)
[SOFT] : Soft effect
[HARD] : Hard effect

CONTRAST

Sets the contrast of the image to be photographed.

[NORMAL] : Automatic (standard) setting (default)
[STRONG] : Strong contrast
[SOFT] : Soft contrast

DIGITAL ZOOM

Enlarges the center of the screen and takes photographs with apparent effect that the focal distance is set to twice the distance.
☞ Zoom Photography ➲ Page 52

[ON] : Enables digital zoom photography. (default)
[OFF] : Disables digital zoom photography.

LCD ☀

Adjusts the brightness of the LCD monitor. This adjustment does not adjust the brightness of the image to be recorded.

[–5] to [+5]

☞ To adjust the brightness of the LCD monitor ➲ Page 115

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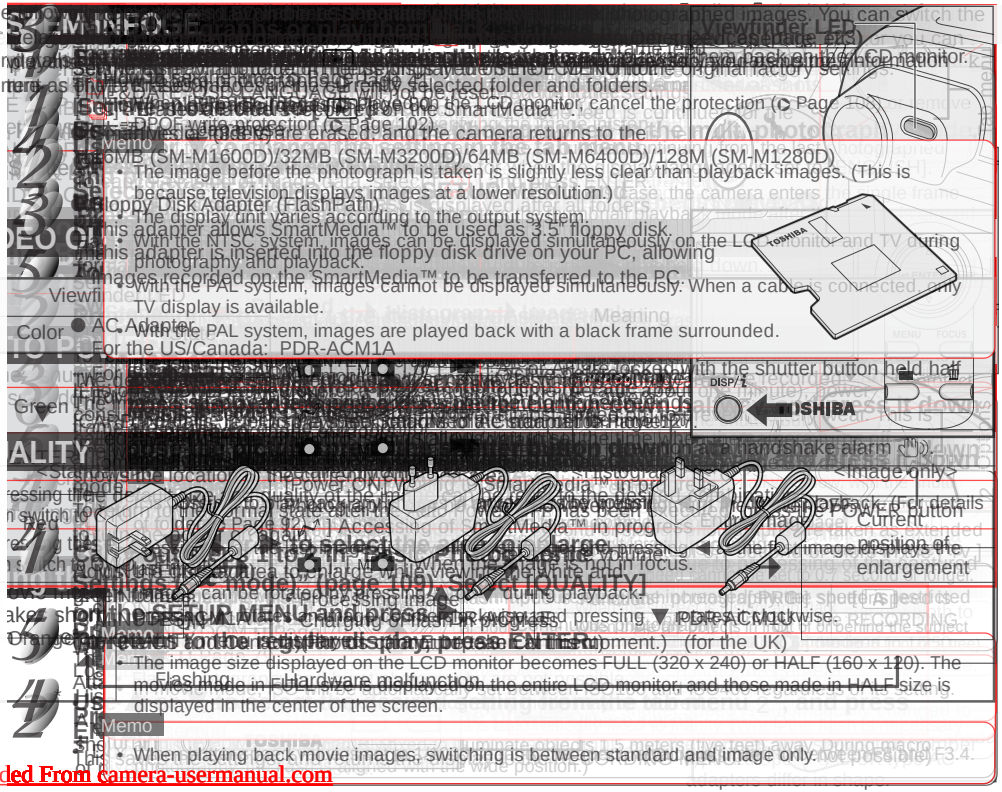

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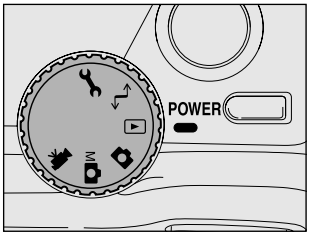
Playing Back Movies

Play back movies that you have recorded. Audio can also be played back.

1 Set the mode dial to [▶].

The last recorded image appears on the LCD monitor.

☞To adjust the brightness of the LCD monitor ⊂ Page 115
Changing the LCD monitor display ⊂ Page 116



2 Press ◀ or ▶ to select the movie to play back.

3 Press ▲.

Playback of the selected movie begins.

The user can control playback as shown on the table of the next page by pressing various buttons during playback, a pause or stopping.

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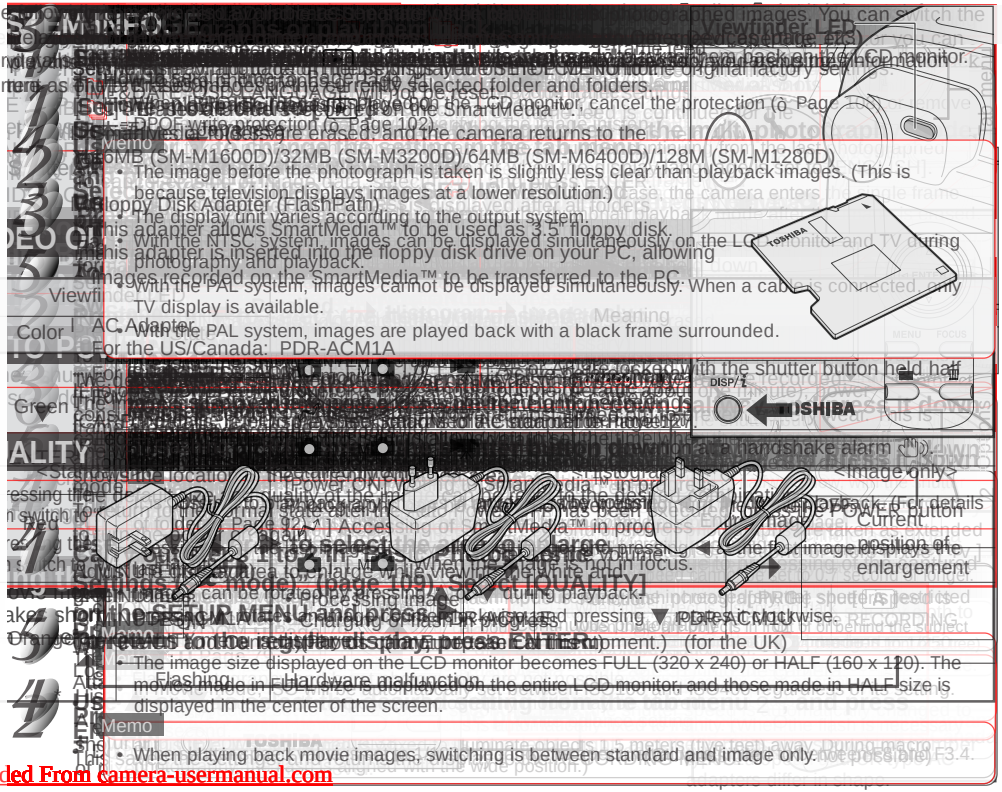

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Displaying a List of Images (Thumbnail Display)

Nine reduced images are simultaneously displayed on the LCD monitor. This manual calls this display “thumbnail display.”
This feature is useful, for example, when there are many images recorded in the SmartMedia™. After you have displayed the thumbnail display, you can select the desired image and display it in the regular display.

1 Set the mode dial to [▶].
The last image frame appears on the LCD monitor.

2 Press ENTER.
Nine images are displayed simultaneously.

3 Use ▲, ▼, ◀ or ▶ to move the cursor to select the image to be displayed at regular size.
The cursor selected image is displayed with green frame.
Pressing the buttons continuously moves the cursor continuously.

* In the thumbnail display mode, [🎬] icon is displayed for the movie data.

4 Press ENTER.
The selected image is displayed at its regular size.

Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback in the thumbnail display mode. ☞ About Folders Page 92

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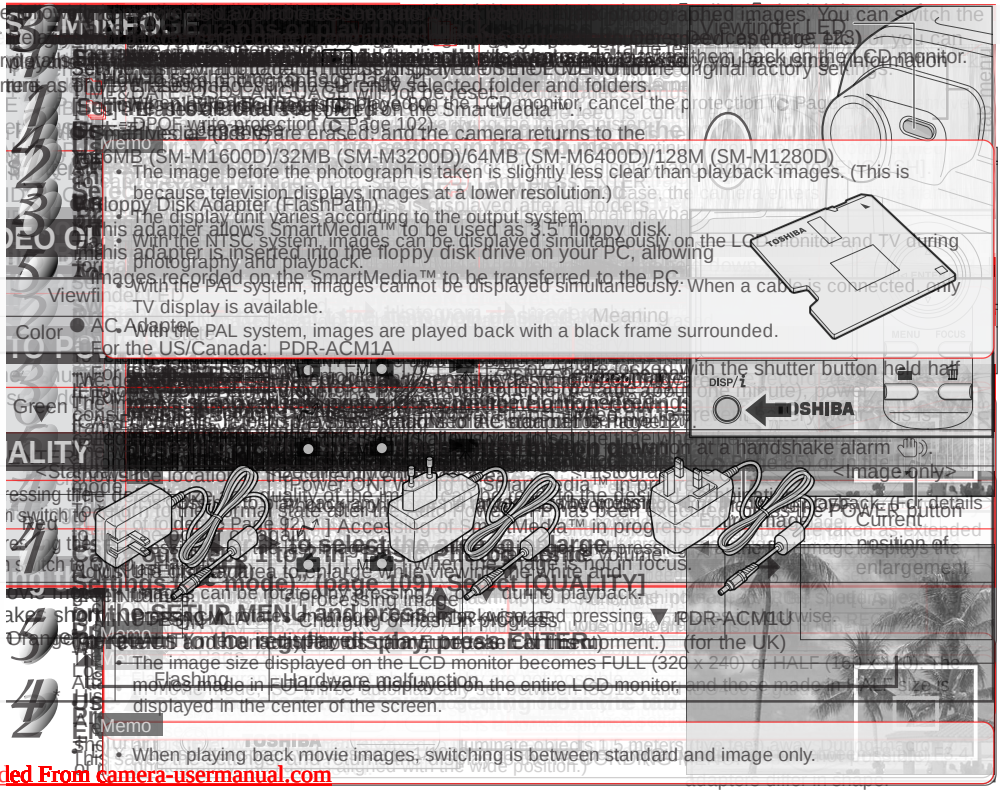

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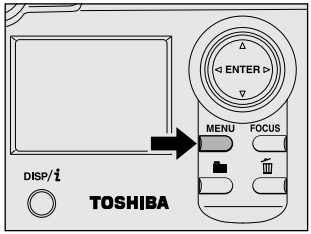
Auto Playback (Slideshow)

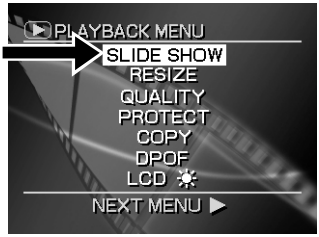
Automatically play back one image at a time in order. This feature is not supported in the movie mode.

1 Set the mode dial to [▶].
The last image frame appears on the LCD monitor.

2 Press the MENU button.
The PLAYBACK MENU is displayed.



3 Use ▲ or ▼ to select [SLIDE SHOW] and press ▶.
The slideshow begins and [⊡] is displayed on the LCD monitor.
The next image is displayed every three seconds.



4 To quit the slideshow, press ENTER.
The LCD monitor displays the image when ENTER is pressed.
The slideshow is repeated until ENTER is pressed.

Memo

- The Auto Power OFF function does not operate during automatic playback.
- Auto playback is only available for images in the same folder.
- When movies are stored in the same folder, they are not played back during automatic playback.

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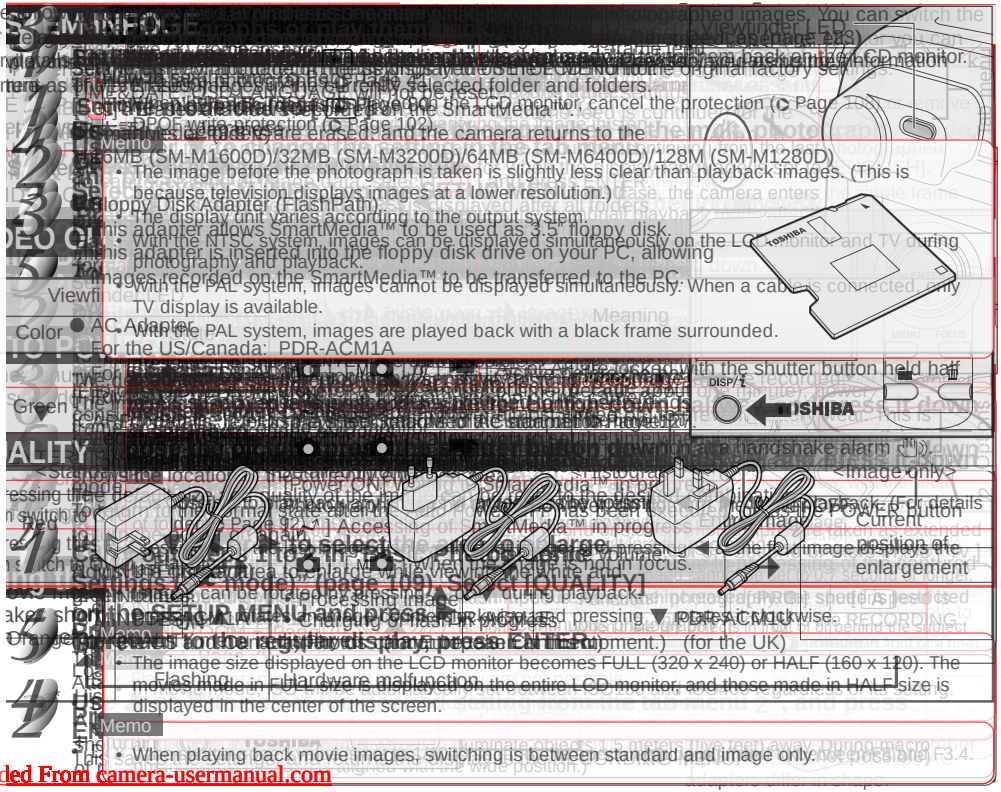

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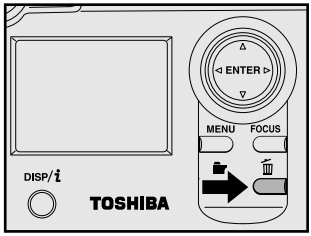
Erasing Images (Erase Frame)

Erases images one image at a time.
Note: Images cannot be erased when they are protected (Page 106) or the SmartMedia™ is write-protected (Page 34).

1 Set the mode dial to [▶], [📷], [M📷] or [🎥].
When [▶] is selected, the last image frame or the thumbnail display appears on the LCD monitor.

2 When [▶] is selected, use ◀ or ▶ to select the image to be erased.
When [📷], [M📷] or [🎥] is selected, only the last recorded image can be erased.

3 Press the 🗑 erase button.
The erase icon is displayed at the left of the screen.



4 Use ▲ or ▼ to select [☐], and press ENTER.
This erases the image and returns to the previous mode.
To cancel erasing of image data, select [↩] and press ENTER.

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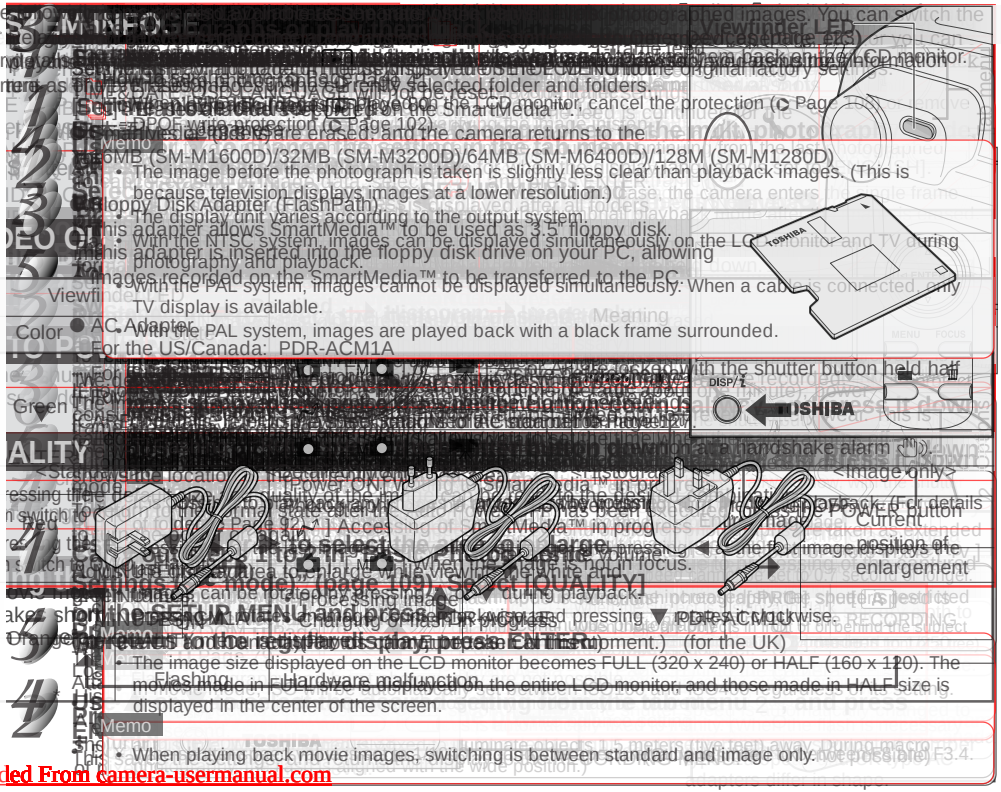

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Erasing Folders (All Images in a Folder/All Folders)

Erases selected folders and all contents currently recorded to the SmartMedia™ loaded on your camera. There are two ways of erasing images, by individual folders or by all folders.
Note: Images cannot be erased when they are protected (Page 106) or when the SmartMedia™ is write-protected (Page 34).

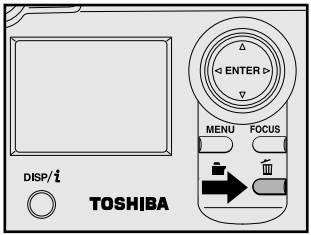
The folder to be erased differs according to the position of the mode dial.
[▶] : Folder of images currently being played back
[📷], [M📷] or [🎥] : Folder of images currently being photographed
☞ About Folders Page 92

1 Set the mode dial to [▶], [📷], [M📷] or [🎥].

Set the mode dial to the type of folder you want to erase.
When [▶] is selected, the last image frame or the thumbnail display appears on the LCD monitor.

2 Hold down the 🗑 erase button for two seconds.

The erase icon is displayed at the left of the screen.



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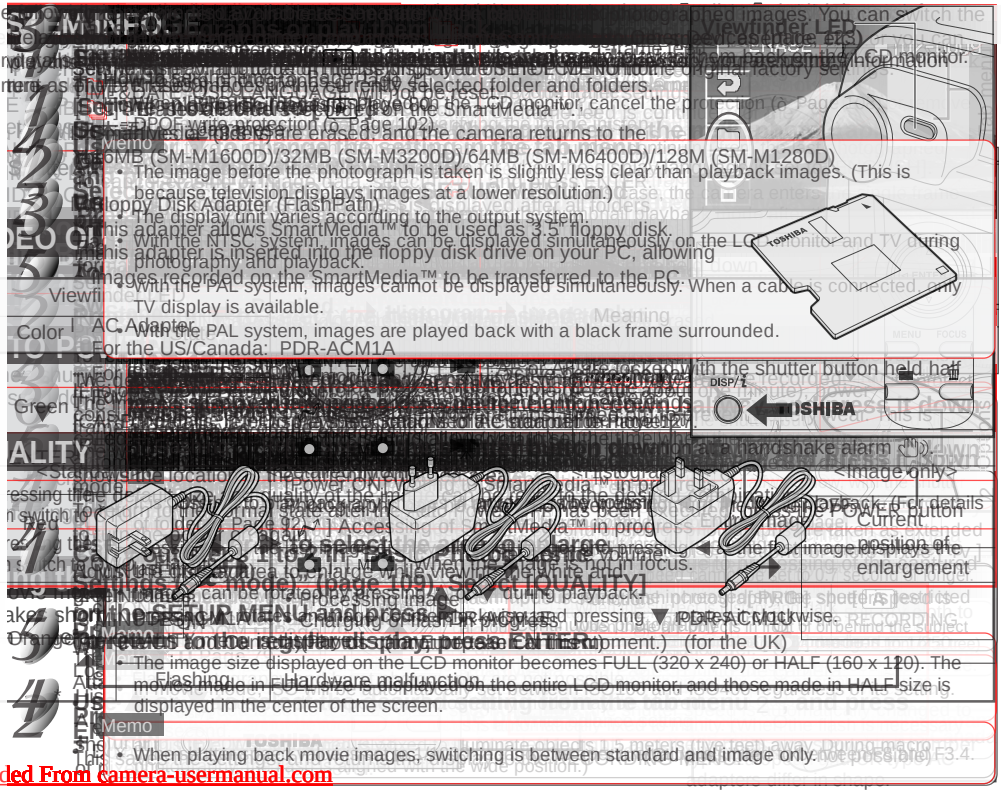

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Formatting the SmartMedia™

Formatting erases all images and reformats the SmartMedia™ loaded in your camera. Protected images (Page 106) are also erased. SmartMedia™ cannot be formatted if it is write-protected (Page 34).

IMPORTANT

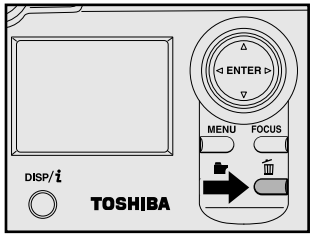
- The SmartMedia™ must be formatted on the camera before use.

1 Set the mode dial to [▶], [📷], [M📷] or [🎥].

When [▶] is selected, the last image frame or the thumbnail display appears on the LCD monitor.

2 Hold down the 🗑 erase button for two seconds.

The erase icon is displayed at the left of the screen.



3 Use ▲ or ▼ to select [💾], and press ENTER.

To cancel formatting, select [↩] and press ENTER.

4 To reset the image number, use ▲ or ▼ to select [EXECUTE], and press ENTER.

To cancel resetting of image numbers, select [CANCEL].

Memo

- SmartMedia must be formatted before using for the first time. Also, it is recommended to periodically reformat the SmartMedia card to remove any miscellaneous files and ensure maximum storage capacity.

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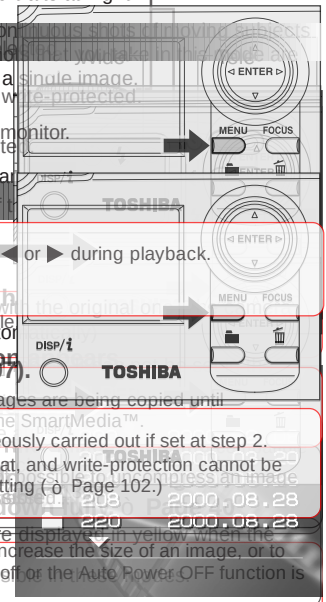
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (ò Page 34).

Try out steps 1 to 3 in "Protecting An Image" (ò Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders ò Page 92

Press ENTER.

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (ò Page 102.)

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Memo

- When taking photographs, it is not possible to select a folder for recording images. Pressing the folder button will create a new folder. The subsequently photographed images are recorded in that new folder.
- When a new folder is created, the frame No. is assigned from 0001.
- To play back images photographed by another camera
  - Proper playback may not be possible for some image size.
  - Images cannot be played back unless the file name and folder name are set correctly.
- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback. (For details of folder Page 92)

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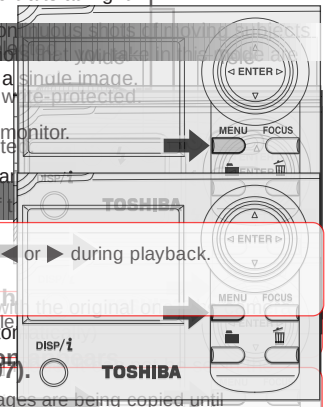
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (☞ Page 34).

Try out steps 1 to 3 in "Protecting An Image".

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.
  - About Folders ☞ Page 92

Protecting An Image (☞ Page 107).

Memo

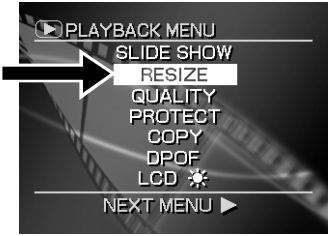
- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (☞ Page 102.)

shutter button is pressed halfway down.

- Before photographing, the flash icons on the LCD monitor are displayed in yellow when the flash is set to [Always On].
- Before photographing, press the MENU button to quit setting.
- Before photographing, press ENTER to quit setting.
- Before photographing, press ◀ or ▶ to select mode.
- Before photographing, press ▲ or ▼ to select mode.
- Before photographing, press ▲ or ▼ to select mode.
- Before photographing, press ▲ or ▼

3 Use ▲ or ▼ to select [RESIZE] and press ▶.

The RESIZE menu is displayed.
If there are no images that can be resized, or if a movie folder is selected, a message appears on screen and the screen returns to the PLAYBACK MENU.



4 Use ◀ or ▶ to select the image and press ENTER to set image size.

The current image size is displayed under the image.
Each press of ENTER changes the icons as follows:

[ ] ..... HALF size [ ] ..... SMALL size

☞ For details of image size (○ Page 44)

To cancel the selection, press ENTER again.
If you want to resize two or more images, repeat the procedure for the necessary number of images.
When the Zoom switch is pressed toward “T” during image selection, the image is displayed to fit the entire screen. To redisplay the original image, move the Zoom switch towards the “W”. (Zoom switch ○ Page 21)

5 Use ▲ or ▼ to select [EXECUTE], and press ENTER.

The screen indicating that the image is being resized appears.
To quit resizing, select [CANCEL] and press ENTER.
When resizing ends, the screen returns to the PLAYBACK MENU.
To quit the PLAYBACK MENU, press the MENU button.

Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.
  ☞ About Folders ○ Page 92

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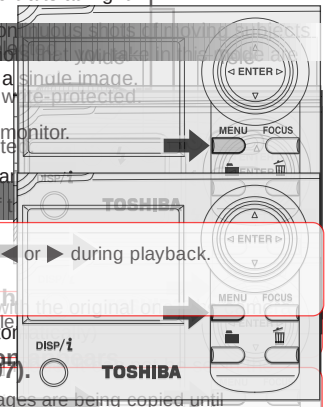
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (☞ Page 34).

Try out steps 1 to 3 in "Protecting An Image" (☞ Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.
  - About Folders ☞ Page 92

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (☞ Page 102.)

- Images cannot be protected if the camera is turned off or the Auto Power OFF function is activated.

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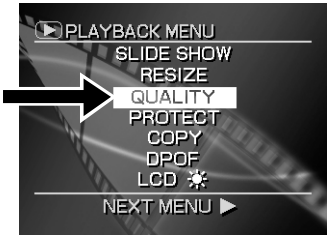
3 Use ▲ or ▼ to select [QUALITY], and press ▶.

The SET-UP menu is displayed.
If there are no images that can be compressed, or if a movie folder is selected, a message appears on screen and the screen returns to the PLAYBACK MENU.



4 Use ◀ or ▶ to select the image, and press ENTER to set the compression ratio.

The current compression ratio (quality) is displayed under the image.
Each press of ENTER changes the number of stars as follows:

★★ [NORMAL]
★ [BASIC]

☞ Details of compression ratio ⌬ Page 44

If you want to compress two or more images, repeat the procedure for the necessary number of images.
When the Zoom switch is pressed toward “T” during image selection, the image is displayed to fit the entire screen. To redisplay the original image, move the Zoom switch towards the “W”. (Zoom switch ⌬ Page 21)

Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.
  ☞ About Folders ⌬ Page 92

5 Use ▲ or ▼ to select [EXECUTE], and press ENTER.

The screen indicating that the image is being compressed appears.
To quit compression, select [CANCEL] and press ENTER..
When compression ends, the screen returns to the PLAYBACK MENU.
To quit the PLAYBACK MENU, press the MENU button.

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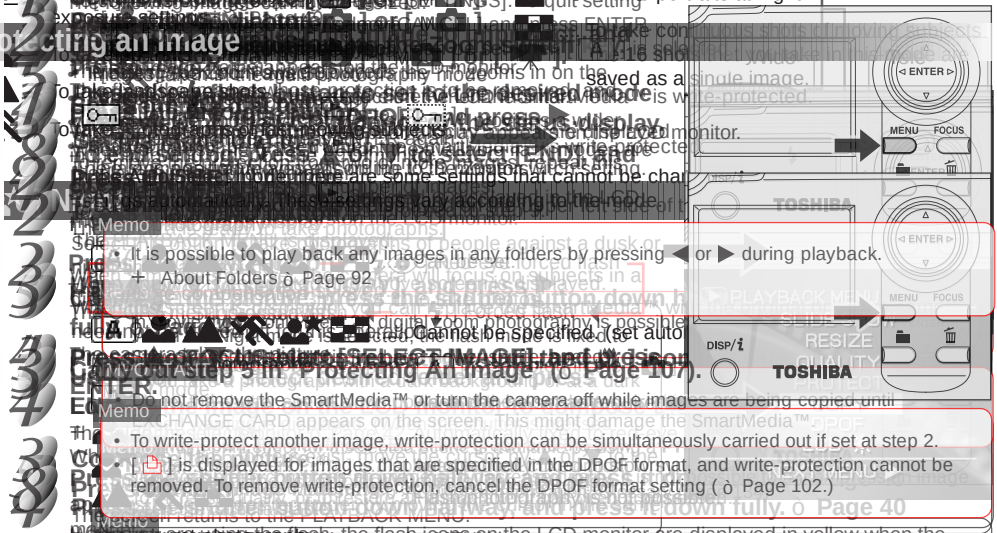
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (ò Page 34).

Try out steps 1 to 3 in "Protecting An Image" (ò Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders ò Page 92

Do not remove the SmartMedia™ or turn the camera off while images are being copied until CHANGE CARD appears on the screen. This might damage the SmartMedia™.

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (ò Page 102.)

- If the last photograph, the flash icons on the LCD monitor are displayed in yellow when the shutter button is pressed halfway down.
- It is not possible to increase the size of an image, or to reduce the size of an image. It is not possible to reduce the size of an image, or to restore photographs that have been erased.
- Memory protection is released even if the camera is turned off or the Auto Power OFF function is activated.

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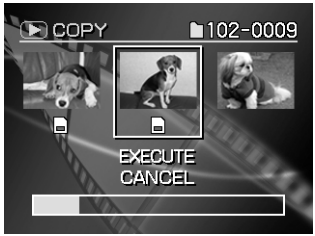
4 Use ◀ or ▶ to select the desired image, and press ENTER.



This selects the image to be copied, and [⊟] is displayed under the image.
To cancel a selection, press ENTER again.
If you want to copy two or more images, repeat the procedure for the necessary number of images.
The bar at the bottom of the screen indicates the amount of buffer memory used to store the date of the images which have been selected, and the remaining memory space. The amount of memory space consumed is indicated in green.
When the Zoom switch is pressed toward “T” during image selection, the image is displayed to fit the entire screen. To redisplay the original image, move the Zoom switch towards the “W”. (Zoom switch ➲ Page 21)

Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.
  ☞ About Folders ➲ Page 92

5 Use ▲ or ▼ to select [EXECUTE], and press ENTER.

The screen indicating that the image is being read appears.

6 Load the SmartMedia™ for copying the image to.

The message [EXCHANGE CARD] is displayed.
① Remove the SmartMedia™.
② Replace it with another SmartMedia™.

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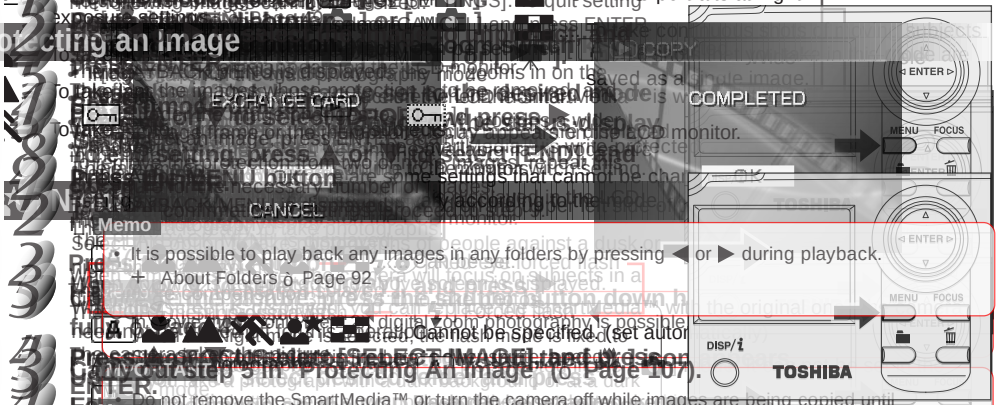
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (ò Page 34).

Try out steps 1 to 3 in "Protecting An Image".

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders ò Page 92

Protecting An Image (ò Page 107).

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (ò Page 102.)

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (ò Page 34).

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The image No. for copying

When images are copied, the frame No. is not copied. The frame No. becomes:

- Still images: When the SmartMedia™ at the copy destination contains the folder [xxxTOSHI], a folder having the largest number of "xxx" incremented by 1 is created.
  Example: When there are folders [101TOSHI] and [102TOSHI], the folder [103TOSHI] is created.
  When there is no [xxx TOSHI] folder, a new folder is created.
  In each case, the frame No. is assigned from 0001.

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Removing the Protection

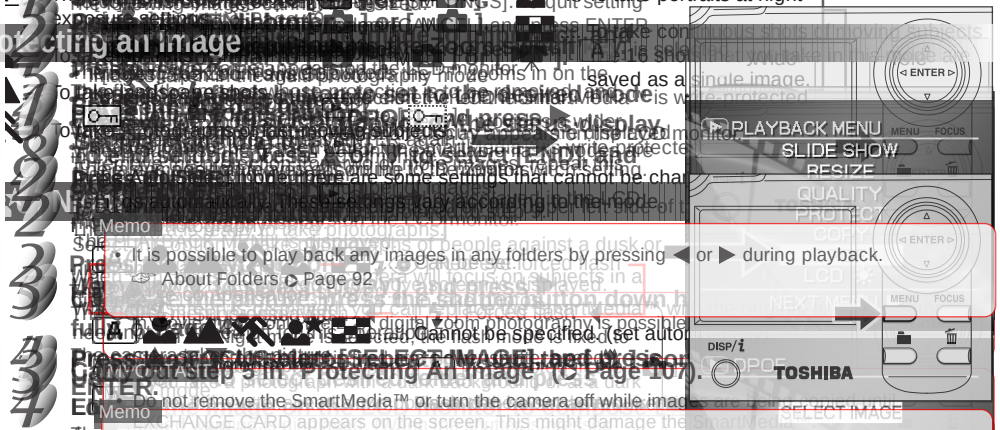
IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (▷ Page 34).

Try out steps 1 to 3 in "Protecting An Image".

Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.
- About Folders ▷ Page 92

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (▷ Page 102.)

shutter button is pressed halfway down.

- Before photographing, the flash icons on the LCD monitor are displayed in yellow when the flash is charged.

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5 Press ▲ or ▼ to select [SELECT] or [ALL], and press ENTER.

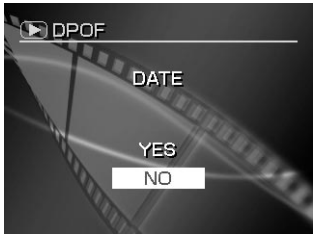
[SELECT] : Sets one image at a time.
[ALL] : Sets all images at once.

6 Set the number of prints and date.

①**Press ◀ or ▶ to select the image, and press ▲ or ▼ to set the number of copies.**
Up to 99 copies can be set for a single image.
When the Zoom switch is pressed toward “T” during image selection, the image is displayed to fit the entire screen. To redisplay the original image, move the Zoom switch towards the “W”. (Zoom switch Page 21)

②**When you have finished this setting, press ENTER.**
The DATE screen is displayed.
The date of the image can be printed in the lower right corner of the picture.

③**Press ▲ or ▼ to select [YES] or [NO], and press ENTER.**
If you want to print the date, select [YES] and press ENTER.
If you do not want to print the date, select [NO] and press ENTER.
The message “CREATE DPOF FILE?” is displayed.



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback. ☞ About Folders Page 92
- The date printed in the picture will depend on the date set into the camera. For the correct date to be printed onto the picture, please check the date set into your camera before the image is photographed. (To correctly set the time and date Page111)

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Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (ò Page 34).

Try out steps 1 to 3 in "Protecting An Image" (ò Page 106).

Protecting an Image

Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.

+ About Folders ò Page 92

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (ò Page 102.)

- Images protected with this camera will be erased if the camera is turned off or the Auto Power OFF function is activated.

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9 Select the desired operation.

[CONFIRM]: Press this to confirm the settings.
①**Press ▲ or ▼ to select [CONFIRM], and press ENTER.**
②**After confirming the settings, press ENTER.**
③**Select [END] and press ENTER.**

[CLEAR ALL]: Press this button to clear all settings.
①**Press ▲ or ▼ to select [CLEAR ALL], and press ENTER.**
②**To clear all settings, select [EXECUTE] and press ENTER.**
To cancel [CLEAR ALL], select [CANCEL] and press ENTER.
③**To remove the write-protection, select [YES] and press ENTER.**
④**Select [END] and press ENTER.**

Memo

- When the SmartMedia™ already contains a DPOF information file, the message “RECREATE DPOF FILE?” is sometimes displayed. Note that if you select [YES], the file is overwritten, and the information of the existing DPOF information file is erased. The same also applies when the DPOF information file is overwritten on a personal computer and values not supported by this camera were set.
- Images set in the DPOF format are automatically protected. Write-protection cannot be removed by regular methods (Page 108)
- You can specify up to 99 prints or up to 999 frames in a single SmartMedia™. The maximum number of prints you can specify in a single SmartMedia™ is limited to 10000.

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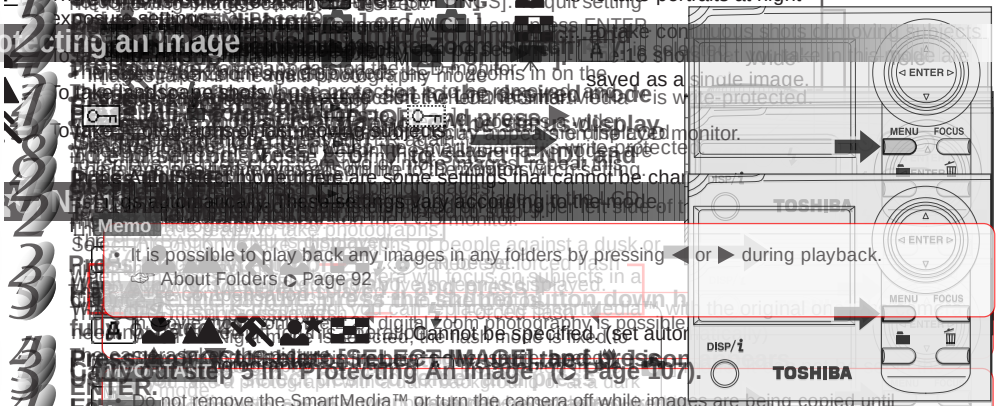
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not. To protect the entire SmartMedia™, see "Write Protection" (☞ Page 34).

Try out steps 1 to 3 in "Protecting An Image" (☞ Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.
  - About Folders ☞ Page 92

Press ▲ or ▼ to select [PROTECT] and press ENTER.

Press ▲ or ▼ to select [SET] and press ENTER.

Press the shutter button halfway down to return to the PLAYBACK MENU.

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (☞ Page 102.)

IMPORTANT

- Do not remove the SmartMedia™ or turn the camera off while images are being copied until CHANGE CARD appears on the screen. This might damage the SmartMedia™.

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (☞ Page 102.)

IMPORTANT

- Images cannot be protected if the camera is turned off or the Auto Power OFF function is activated.

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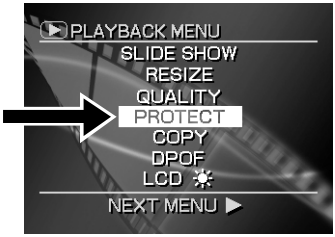
3 Use ▲ or ▼ to select [PROTECT] and press ▶.

The PROTECT menu is displayed.



4 Use ▲ or ▼ to select the desired image to protect, and press ENTER.

This fixes the image to be protected, and [⚷] is displayed under the image.
To cancel the selection, press ENTER again.
To write-protect two or more images, repeat this procedure for the necessary number of images.
When the Zoom switch is pressed toward “T” during image selection, the image is displayed to fit the entire screen. To redisplay the original image, move the Zoom switch towards the “W”. (Zoom switch Page 21)

Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback. (For details of folder Page 92)

5 Use ▲ or ▼ to select [EXECUTE], and press ENTER.

To quit write-protection, select [CANCEL] and press ENTER.
When write-protection ends, the screen returns to the PLAYBACK MENU.
To quit the PLAYBACK MENU, press the MENU button.

Memo

- When the PROTECT setup screen is displayed again, [⚷] is displayed under protected images.
- To cancel write-protection for an image, write-protection is simultaneously canceled if set at step 4.

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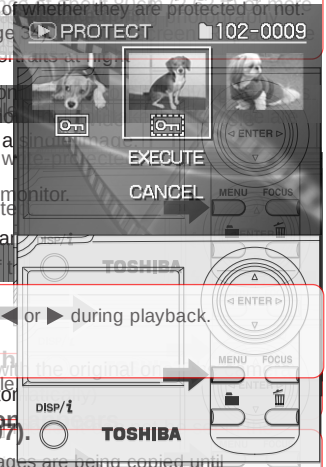
Removing the Protection

IMPORTANT

- Formatting erases all the images on a SmartMedia™, regardless of whether they are protected or not.
- To protect the entire SmartMedia™, see "Write Protection" (Page 106).

Protecting an Image



Memo

- It is possible to play back any images in any folders by pressing ◀ or ▶ during playback.
- About Folders Page 92

Memo

- To write-protect another image, write-protection can be simultaneously carried out if set at step 2.
- [ ] is displayed for images that are specified in the DPOF format, and write-protection cannot be removed. To remove write-protection, cancel the DPOF format setting (Page 102.)

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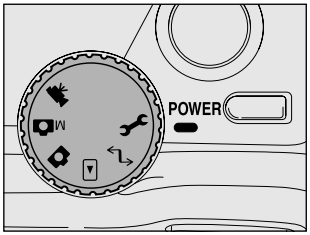
Basic Settings (mode)

This feature allows you to set up the default settings for using your camera in addition to image-related settings. This is called “setup”. The following items can be changed in the SET-UP mode:

AUTO POWER OFF/SOUND/TIME & DATE/OSD LANGUAGE/VIDEO OUT/QUALITY/SYSTEM INFO.

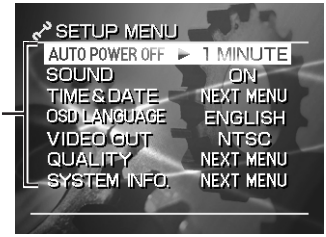
The details set here are held in memory even if the camera is turned OFF.

1 Set the mode dial to [ ].
The SETUP MENU appears.



2 Use ▲ or ▼ to select the item you want to set.

☞ AUTO POWER OFF ➲ Selects the time for automatic power off (P. 110)
SOUND ➲ Turns on and off the sound (P. 111)
TIME & DATE ➲ Setting the Time and Date (P. 111)
OSD LANGUAGE ➲ Selecting the Monitor Display Language (P. 112)
VIDEO OUT ➲ Setting Video Output (P. 112)
QUALITY ➲ Setting image quality and size (P. 112)
SYSTEM INFO. ➲ Returning Settings to the Defaults (P. 114)



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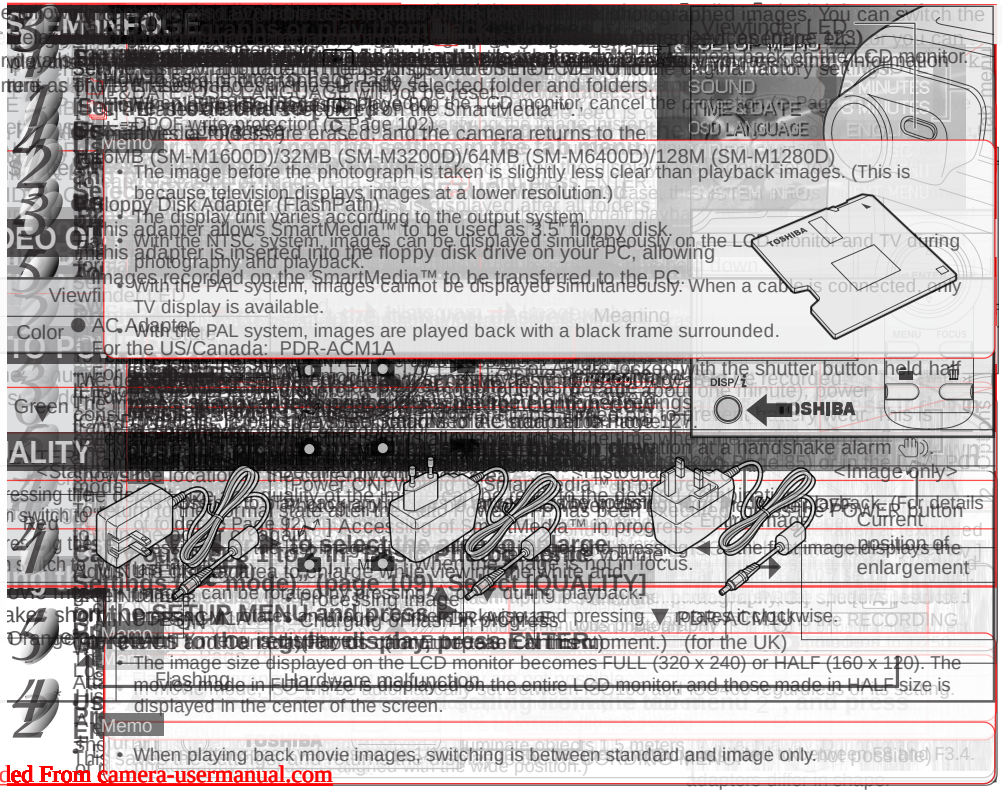
Setting the Clock (Setting the Display Language)



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SOUND

Sets whether or not to sound the beep tone.

[ON] : Sounds the beep tone according to the operating state or operation. (default)
[OFF] : Does not sound the beep tone in any state.

TIME & DATE

Sets the date and time.
Seconds cannot be set.

1 Using ◀ or ▶ to select the item you want to set, and use ▲ or ▼ to set the value for each item.
Pressing ▶ advances the selection in the following order:

YEAR → MONTH → DAY → Hour → Minute → OK → CANCEL

2 Select [OK] and press ENTER.
To quit setting, select the [CANCEL] button and press ENTER.

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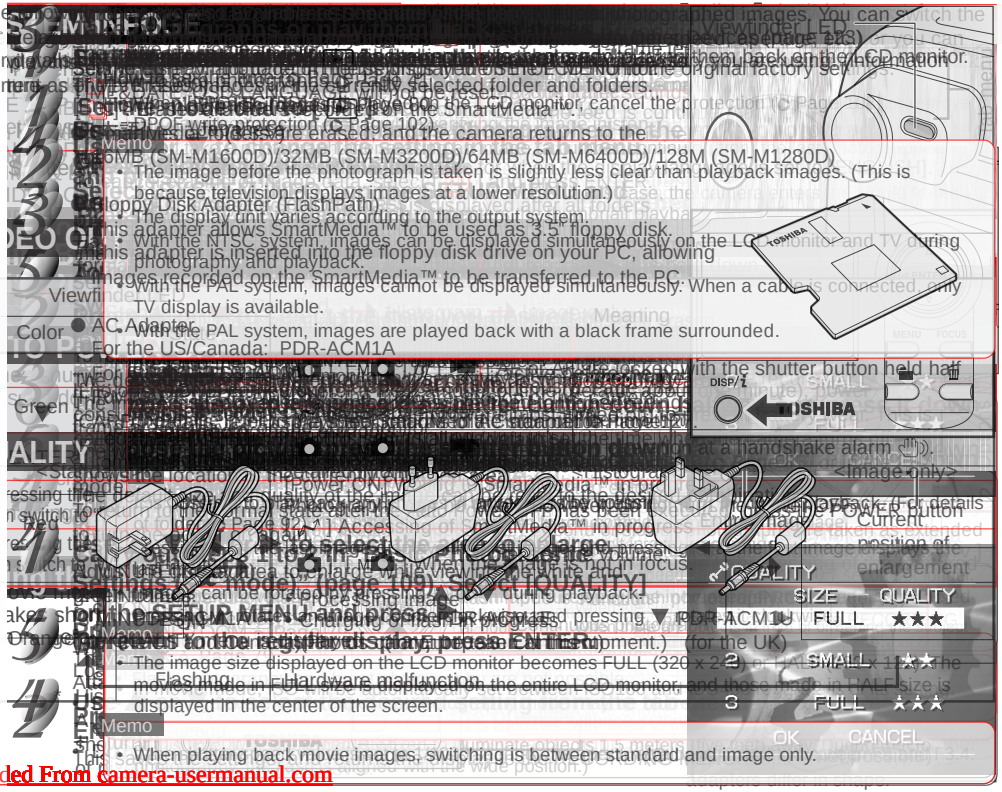

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2 **Press ▲ or ▼ to select the number you desired to set, and press ▶ or ENTER.**
The SIZE item is reversely displayed in white.

3 **Press ▲ or ▼ to select the size you desired, and press ▶ or ENTER.**
The QUALITY item is reversely displayed in white.

4 **Press ▲ or ▼ to select the quality you desired, and press ▶ or ENTER.**
The display returns to the Step 2 screen.

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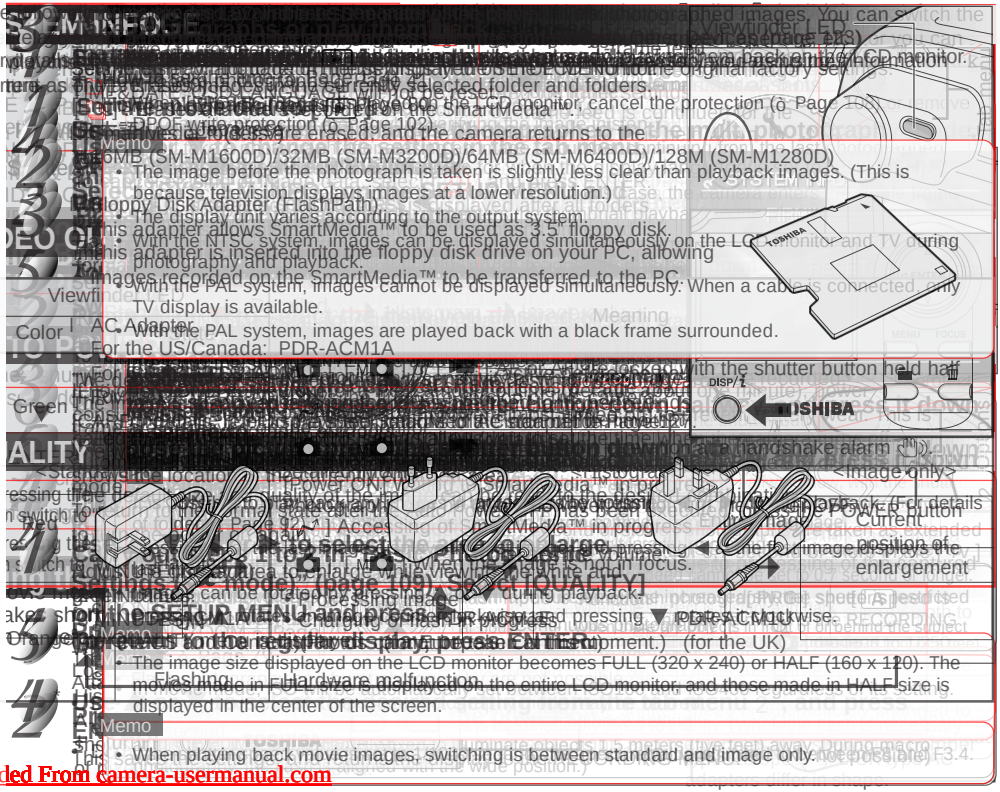

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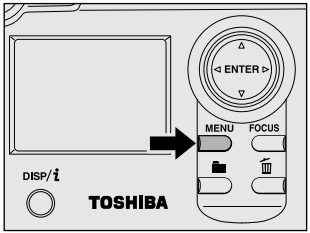
Adjusting the LCD Monitor Brightness

This adjustment adjusts the brightness of the LCD monitor and not the brightness of the recorded image.

1 Set the mode dial to [▶], [📷], [M📷] or [🎥].

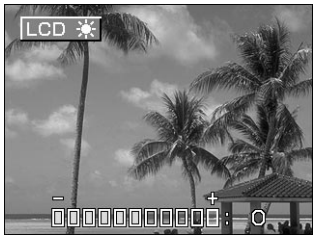
2 Press the MENU button.

The RECORDING MENU or PLAYBACK MENU is displayed.
You can set the LCD monitor brightness in either of these menus.



3 Use ▲ or ▼ to select [LCD ☼] and press ▶.

The image and the LCD menu are displayed.



4 Use ◀ or ▶ to adjust the brightness.

Press ◀ to darken (–) the LCD monitor, or ▶ to lighten (+) the LCD monitor.
The LCD monitor can be adjusted within the range [–5] to [+5].
(Default is 0.)

5 Press ENTER.

This returns the camera to the previous mode.

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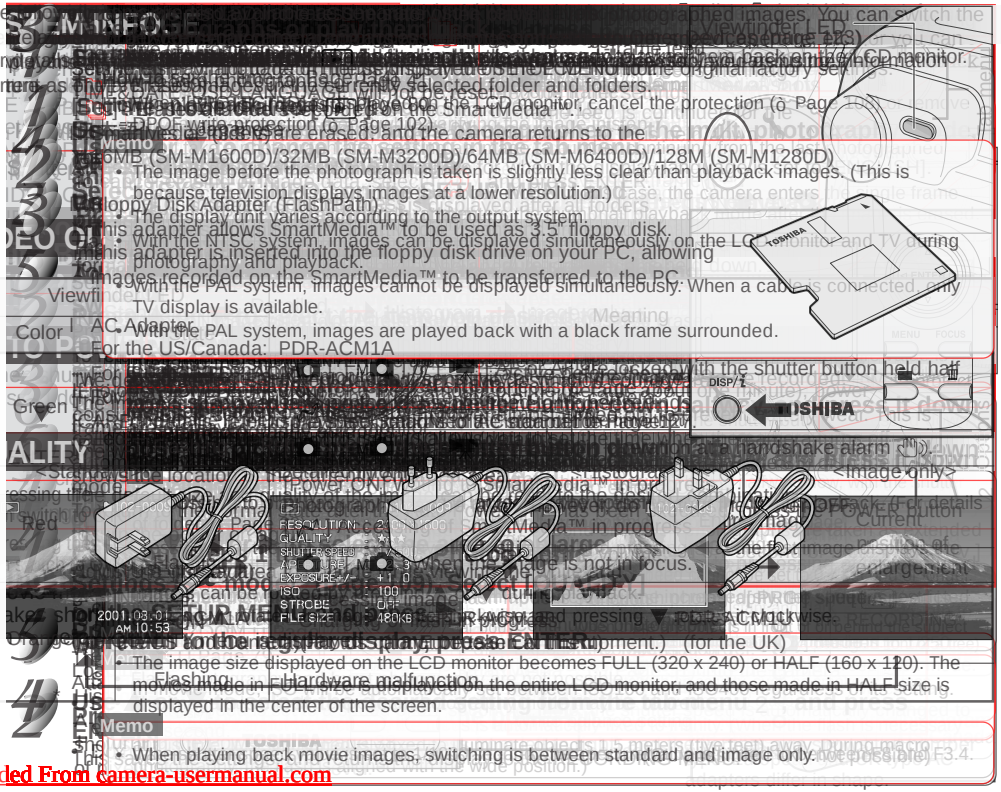

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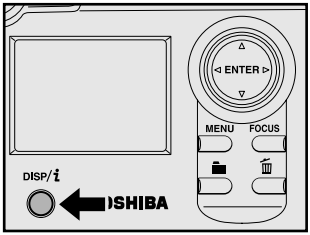
DISP/*i* Button and LCD Monitor Display (In Photography Mode)

This item switches the display on the LCD monitor when taking photographs.

1 **Set the mode dial to [ ], [M] or [ ].**

2 **Press the DISP/*i* display/info button.**

Each press of the DISP/*i* display/info button switches the display format as follows:



OSD full display → OSD display off → LCD monitor off

<OSD full display> <OSD display off> <LCD monitor off>

Memo

- When any button is pressed while OSD display is off, the monitor displays the alteration on the screen for two seconds.
- When the LCD monitor is off, the digital zoom function is forcibly canceled.
- In the movie mode or macro photography mode, the LCD monitor can not be turned off.
- When the LCD monitor is off, any setting for manual, exposure compensation, aperture value, shutter speed value or focus is not possible.

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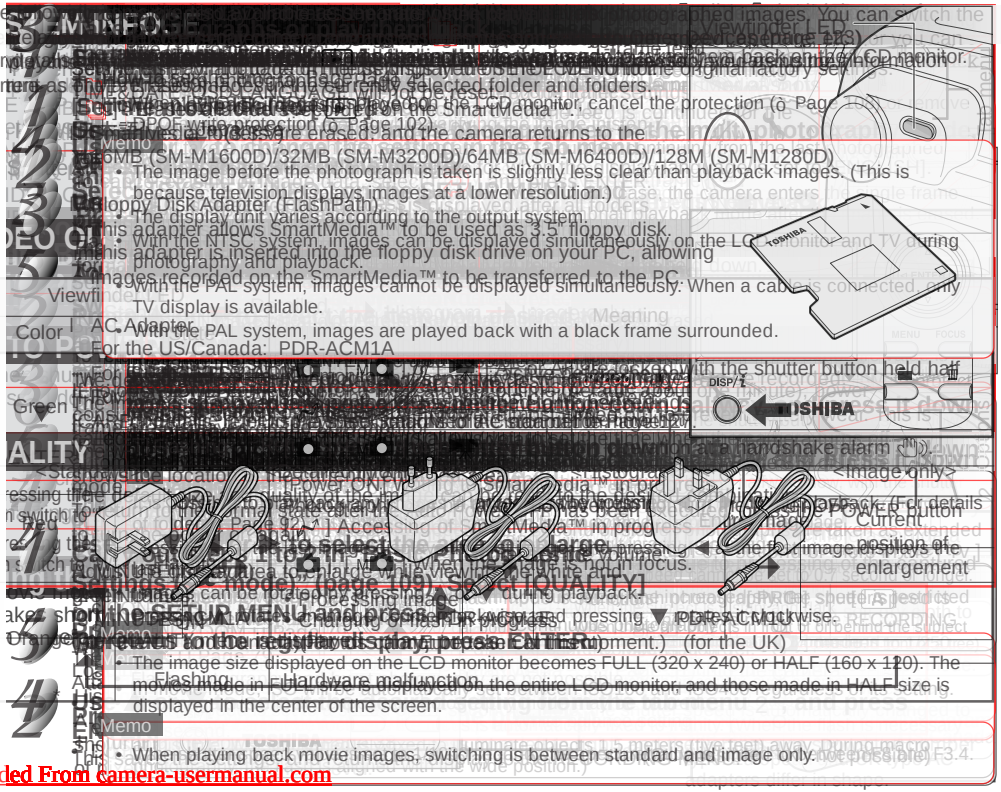

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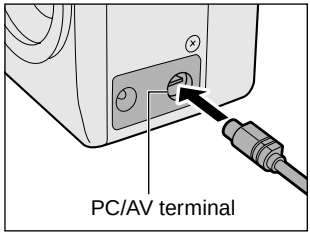
Taking and Playing Back Photographs on a TV

Television sets can be used to compose images for photography or playback. To do this, the camera must first be connected to the TV. We recommend using the AC adapter on an indoor power outlet when available.

IMPORTANT

- Before you connect your camera to other equipment, be sure to turn all other connected equipment OFF. If you connect your camera to other equipment with the power still ON, the screen may flicker or the image may not be displayed normally.

1 Connect the plug of the AV cable (provided) to the PC/AV terminal on the camera.



2 Connect the plug of the AV cable to the video input terminal on the TV.

Memo

- Switch to the video output system, NTSC or PAL, according to the TV or country in which your camera is used.
  ☞ For details on how to switch the system ➲ Page 112

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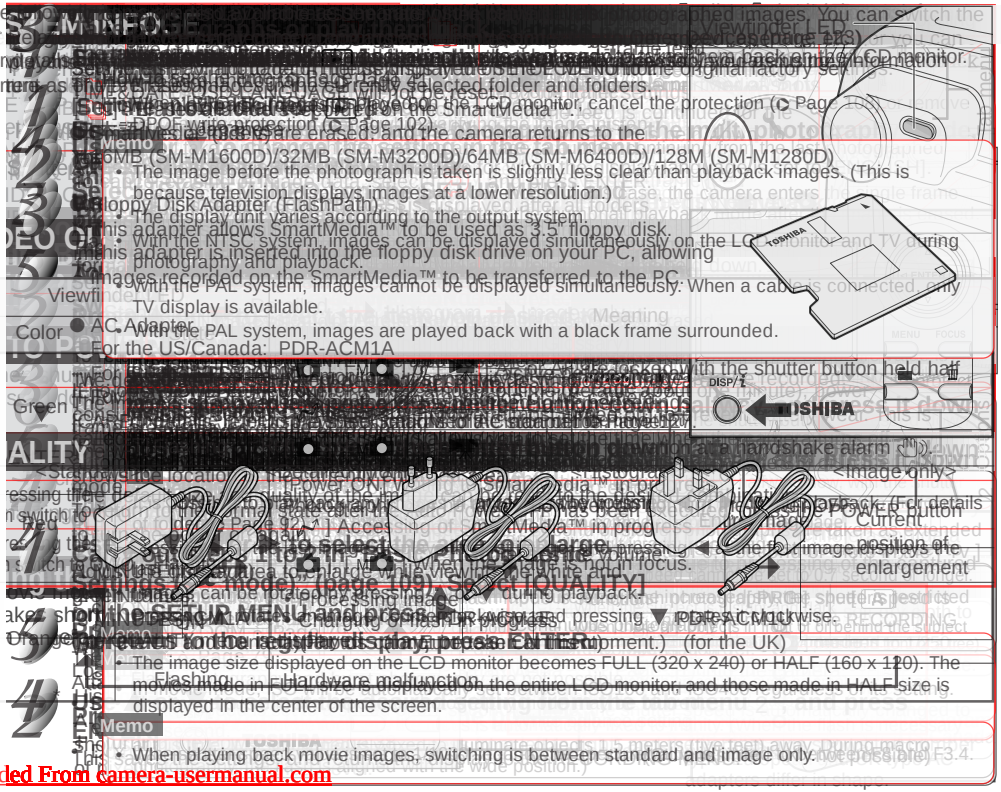

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Transferring Images to a PC

You can transfer images photographed on your camera to a PC using the packaged CD-ROM and USB cable. Images recorded on SmartMedia™ can also be transferred to a PC using the PC card adapter (sold separately) or floppy disk adapter (sold separately). (Page 122)
To transfer images to a PC, software must be installed and special cables connected.
For details, refer to the User's Guides for your PC and the Software Manual.

Using SmartMedia™ on a PC

- When you use SmartMedia™, do not change or erase folders or file names (image data) on the SmartMedia™. Doing so might prevent the SmartMedia™ from being used on the camera.
- Format the SmartMedia™ only on your camera.
- To edit image data, copy the image data to hard disk on the PC, and edit the copied image data.

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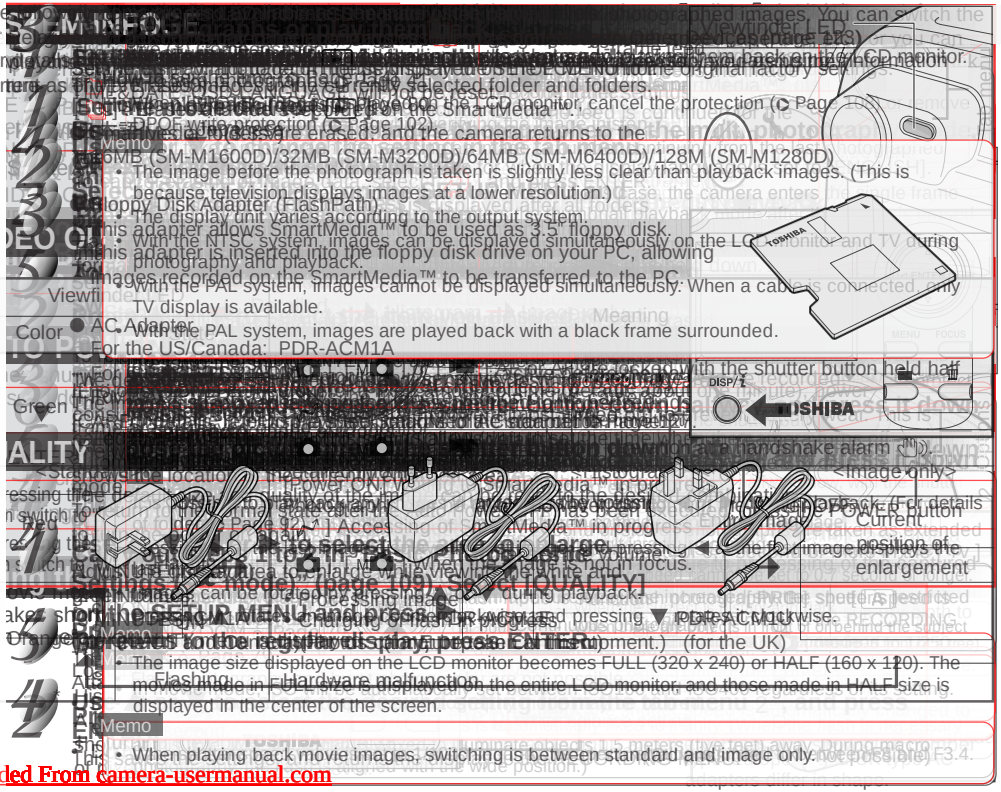

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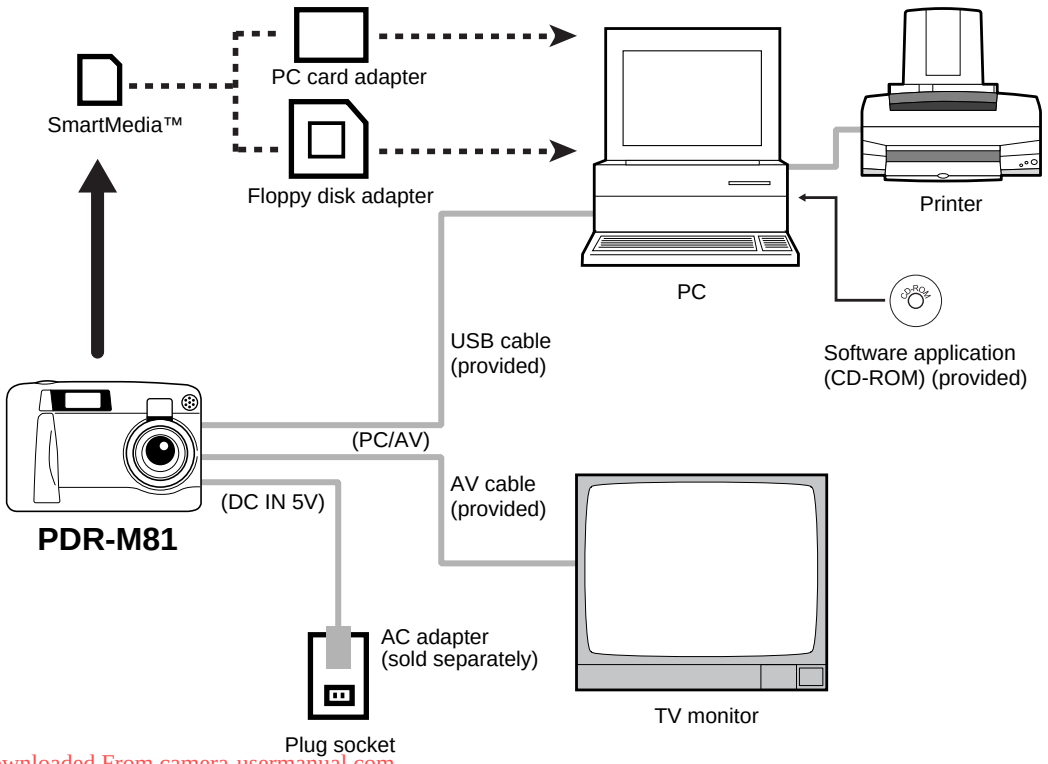
Connecting to Other Devices



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Glossary

● SmartMedia™

Problem | Causes | Remedy | See Page

Change the camera to the photography or playback mode. | P.41

Replace with new batteries. | P.25

Batteries are partially used. | P.25

Batteries are completely exhausted. | P.25

Camera will not turn on. | P.25

Temperature is too high or too low. | P.26

Batteries are exhausted. | P.25

Image size | Exif ver. 2.1-compliant Image File Size (max.) | 8MB | 16MB | 32MB | 64MB | 128MB

Quality | Compression Ratio

2400 x 1600 pixels | FINE | 1/4 | FULL | 1536KB | 5 | 10 | 20 | 41 | 83

1600 x 1200 pixels | ★★★ | 1/3.5 | HALF | 768KB | 10 | 20 | 41 | 83 | 166

640 x 480 pixels | NORMAL | 1/7 | SMALL | 192KB | 41 | 82 | 166 | 332 | 666

320 x 240 pixels | ★★ | 1/16 | FULL | 384KB | 16 | 31 | 62 | 124 | 249

HALF | 192KB | 31 | 62 | 124 | 249 | 499

SMALL | 48KB | 124 | 248 | 499 | 998 | 1998

Image Frame Size | Photography Time (secs)

Size | (max.)

FULL | 16KB | 30

HALF | 8KB | 60

SMALL | 4KB | 120

Remove the write-protection or replace with a new SmartMedia™. | P.34

Format the SmartMedia™. | P.91

Load a new SmartMedia™. | P.31

Turn the power on again. | P.110

- Formatting
- Image Mode
- Quality
- Compression Ratio
- Exif ver. 2.1-compliant
- Image File Size
- Image Size
- Photography Time
- Exposure Compensation
- Movie Image Mode
- Standard movie
- photography time
- FULL size:
- 320 x 240 pixels
- HALF size:
- 160 x 120 pixels
- RD FULL
- RMAT ERROR
- RD PROTECTED
- DDD

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Specifications (continued)

Pickup elements		1/1.8” CCD sensor (total number of pixels: approx. 4.2 million)
Sensitivity		Equivalent to ISO 100/200/400
Lens		2.8X optical zoom lens F2.9 – F4.8
Focal length		f=7.25 mm – 20.3 mm (equivalent to 35 mm – 98 mm on a 35 mm camera)
Viewfinder		Real image type zoom finder
Auto-focus		TTL system AF, focus adjusting range: approximately 0.10 m (0.33 ft) to infinity (WIDE side setting) Detection system: Contrast detection system (frame rate during detection: 30 Hz)
Exposure Control	Metering system	Spot metering, multi metering
	Control system	Program AE , aperture-priority AE, shutter-priority AE
	Exposure compensation	–2.0 EV to +2.0 EV (in 0.5 EV increments)
Aperture		F2.9 to F8 automatic selection, manual selection possible
Shutter speed		1/2 to 1/1,000 sec. (electronic shutter and mechanical shutter) Maximum 15 sec. for extended exposure photography
White balance		Auto selected Manual setting possible (5 modes)
Focal range	Standard	Approx. 80 cm (31”) to infinity
	Macro	Approx. 10 cm (4”) to infinity (WIDE side setting) Approx. 25 cm (10”) to infinity (TELE side setting)
Self-Timer		2 seconds/10 seconds selectable
Built-in flash	Modes	Auto, Red-eye reduction forced flash, Forced Flash, Suppressed Flash
	Effective range	Approx. 0.8 m (2.6 ft) – 3.0 m (9.8 ft) (WIDE side setting, ISO setting: [2X])

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Glossary (Messages Displayed on LCD Monitor)

Problem	Causes	Remedy	See Page
SmartMedia™ is not formatted.	The SmartMedia™ is not formatted.	Change the camera to the photography or playback mode.	P.41
Format the SmartMedia™.	The SmartMedia™ is not formatted.	Format the SmartMedia™.	P.58
Power turned off automatically.	The Auto Power OFF function is activated.	Turn the power on again.	P.75
Image size: 640 x 480 pixels	Image size: 640 x 480 pixels	Replace with new batteries.	P.25
Exif Ver. 2.1 compliant	Exif Ver. 2.1 compliant	Batteries are partially used.	P.80
Image Quality: Fine	Image Quality: Fine	Batteries are partially exhausted. Battery power is nearing exhaustion.	P.28
Image Mode: 1/4	Image Mode: 1/4	Batteries are completely exhausted. Camera will not turn on.	P.111
Image Size: 640 x 480 pixels	Image Size: 640 x 480 pixels	Batteries are completely exhausted. Camera will not turn on.	P.25
Image size: 2400 x 1600 pixels	Image size: 2400 x 1600 pixels	Replace with new batteries.	P.25
Image Quality: Fine	Image Quality: Fine	Batteries are partially used.	P.80
Image Mode: 1/4	Image Mode: 1/4	Batteries are partially exhausted. Battery power is nearing exhaustion.	P.28
Image Size: 640 x 480 pixels	Image Size: 640 x 480 pixels	Batteries are completely exhausted. Camera will not turn on.	P.111
Image size: 2400 x 1600 pixels	Image size: 2400 x 1600 pixels	Batteries are completely exhausted. Camera will not turn on.	P.25
Image Quality: Fine	Image Quality: Fine	Replace with new batteries.	P.25
Image Mode: 1/4	Image Mode: 1/4	Batteries are partially used.	P.80
Image Size: 640 x 480 pixels	Image Size: 640 x 480 pixels	Batteries are partially exhausted. Battery power is nearing exhaustion.	P.28
Image size: 2400 x 1600 pixels	Image size: 2400 x 1600 pixels	Batteries are completely exhausted. Camera will not turn on.	P.111
Image Quality: Fine	Image Quality: Fine	Batteries are completely exhausted. Camera will not turn on.	P.25
Image Mode: 1/4	Image Mode: 1/4	Replace with new batteries.	P.25
Image Size: 640 x 480 pixels	Image Size: 640 x 480 pixels	Batteries are partially used.	P.80
Image size: 2400 x 1600 pixels	Image size: 2400 x 1600 pixels	Batteries are partially exhausted. Battery power is nearing exhaustion.	P.28
Image Quality: Fine	Image Quality: Fine	Batteries are completely exhausted. Camera will not turn on.	P.111
Image Mode: 1/4	Image Mode: 1/4	Batteries are completely exhausted. Camera will not turn on.	P.25
Image Size: 640 x 480 pixels	Image Size: 640 x 480 pixels	Replace with new batteries.	P.25
Image size: 2400 x 1600 pixels	Image size: 2400 x 1600 pixels

Specifications (continued)

AC adapter (PDR-ACM1A)

Power supply	AC120V 50/60Hz
Rated Input Capacity	18VA
Rated Output	DC5V 1.5A
Operating temperature	0°C (+32°F) ~ +40°C (+104°F)
Storage temperature	–10°C (+14°F) ~ +70°C (158°F)
Dimensions	48 mm (1-8/9") (W) x 26 mm (1-1/4") (H) x 70 mm (2-3/4") (D)
Weight	Approx. 100 g (3.5 oz)
Connector Cable Length	Approx. 2 m (6.6 ft)

AC adapter (PDR-ACM1E)

Power supply	AC230V 50Hz
Rated Input Capacity	120 mA
Rated Output	DC5.0V 1.5A
Operating temperature	0°C ~ +40°C
Storage temperature	–10°C ~ +70°C
Dimensions	49.5 mm (1.9") (W) x 66.5 mm (2.6") (H) x 76 mm (3.0") (D)
Weight	Approx. 130 g (4.5 oz)
Connector Cable Length	Approx. 2 m (6.6 ft)

AC adapter (PDR-ACM1U)

Power supply	AC230V 50Hz
Rated Input Capacity	120 mA
Rated Output	DC5.0V 1.5A
Operating temperature	0°C ~ +40°C
Storage temperature	–10°C ~ +70°C
Dimensions	49.5 mm (1.9") (W) x 60.5 mm (2.4") (H) x 76 mm (3.0") (D)
Weight	Approx. 130 g (4.5 oz)
Connector Cable Length	Approx. 2 m (6.6 ft)

These specifications are subject to change without notice.

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Messages Displayed on LCD Monitor

Problem	Causes	Remedy	See Page
SmartMedia™ is not formatted.	The SmartMedia™ is not formatted.	Change the camera to the photography or playback mode.	P.41
Power turned off automatically.	The camera is in the PC mode.	Change the camera to the photography or playback mode.	P.58
Power turned off automatically.	The battery power is nearly exhausted.	Replace with new batteries.	P.25
Image cannot be recorded.	The recording medium can be used over and over again.	Batteries are partially used. Although batteries are usable, connections may be poor. Batteries are completely exhausted. Camera will not turn on.	P.80
Formatting error.	The SmartMedia™ is not formatted correctly.	Format the SmartMedia™ with your camera.	P.28
Transmission Mode	Both the camera and the computer are in the transmission mode.	Change the mode on the camera or computer.	P.111
Set date and time.	The battery power is nearly exhausted. Camera removed from power source.	Replace with new batteries.	P.25
Incompatible SmartMedia™	The SmartMedia™ is incompatible.	Use a compatible SmartMedia™.	P.26
Write-protect SmartMedia™	The SmartMedia™ is write-protected.	Slide the write-protect tab on the SmartMedia™ to the recording position.	P.34
Cannot record.	The SmartMedia™ is damaged.	Format the SmartMedia™ with your camera.	P.28
Cannot record.	The Auto Power OFF function is activated.	Turn the power on again.	P.110
RD PROTECTED	—	The SmartMedia™ is write-protected.	

Image Size / Number of Recordable Images

Image size	Compression Ratio	16MB	32MB	64MB	128MB
2400 x 1600 pixels	FINE	5	10	20	41
	HIGH	10	20	41	83
	NORMAL	20	41	83	166
	BASIC	41	83	166	332
1600 x 1200 pixels	FINE	7	15	31	62
	HIGH	15	31	62	124
	NORMAL	31	62	124	249
	BASIC	62	124	249	499
1280 x 960 pixels	FINE	11	22	45	90
	HIGH	22	45	90	180
	NORMAL	45	90	180	360
	BASIC	90	180	360	720
640 x 480 pixels	FINE	49	99	199	399
	HIGH	99	199	399	799
	NORMAL	199	399	799	1598
	BASIC	399	799	1598	3196

Movie Image Modes

Movie Image Mode	Quality	Compression Ratio	Image Size	Frame Size	Photography Time (secs) (max.)
Standard movie	FINE	1/10	FULL	16KB	30
photography time	HIGH	1/7	HALF	6KB	99
SMALL	NORMAL	1/14	FULL	11KB	45
FULL size:	BASIC	1/19	HALF	4KB	120
320 x 240 pixels	FINE	1/10	FULL	8KB	60
HALF size:	HIGH	1/14	HALF	3KB	180
160 x 120 pixels	NORMAL	1/19			
	BASIC	1/24			

Conversion rules

DCF Ver. 1.0 compliant	Exif Ver. 2.1 compliant
Image Size	File Size (max.)
FULL	1536KB
HALF	384KB
SMALL	96KB
FULL	1024KB
HALF	256KB
SMALL	64KB
FULL	512KB
HALF	128KB
SMALL	32KB

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Display		Meaning
LCD monitor	Status display	
FOLDER ERROR	—	There are no free folders on the SmartMedia™ to copy image data to.
RECREATE DPOF FILE?	—	There is a parameter that is not supported in the DPOF setting file.
CLOSE THE CARD LID	—	The SmartMedia™ cover must be closed.
FRAME NUMBER FULL	—	The maximum number of images (999 frames) that can be set is exceeded when setting DPOF setting files.
NO IMAGE AVAILABLE	—	No images are recorded to the SmartMedia™.
DPOF ERROR	—	There is a parameter that is not supported in the DPOF setting file.
DPOF PROTECT OFF	—	This is a confirmation for checking whether or not to remove DPOF write-protection when clearing DPOF settings.
LENS COVER	—	The zoom lens cannot be correctly set up. Is the lens cap still attached to the lens? Check the lens cap, and turn the power ON again.
⊠	—	You tried to play back an image not supported on this camera.
ERROR***	—	A camera problem has occurred. Contact a Support Center.
🤚	—	Poor lighting conditions. Image will be vulnerable to vibrations.

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- SmartMedia™

Problem	Causes	Remedy	See Page
Power turns off automatically.	Batteries are partially used.	Replace with new batteries.	P.25
	Batteries are completely exhausted.	Batteries are completely exhausted. Camera will not turn on.	P.25
Power suddenly turns off.	Battery power is nearing exhaustion.	Batteries are completely exhausted. Camera will not turn on.	P.25
Image cannot be recorded.	The SmartMedia™ is not formatted.	Format the SmartMedia™.	P.80
	Exif Ver. 2.1 compliant	Change the camera to the photography or playback mode.	P.28
	The SmartMedia™ is full.	Change the camera to the photography or playback mode.	P.41
	Quality, Compression Ratio, Image Size	Change the Quality, Compression Ratio, Image Size	P.111
	The SmartMedia™ is write-protected.	Remove the write-protection or replace with a new SmartMedia™.	P.34
	The SmartMedia™ is not formatted.	Format the SmartMedia™.	P.80
	The SmartMedia™ is damaged.	Load a new SmartMedia™.	P.25
	The Auto Power OFF function is activated.	Turn the power on again.	P.110
	—	The SmartMedia™ is write-protected.	

Problem	Causes	Remedy	See Page
Number of pictures that can be stored is too few.	Image Size, Quality, Compression Ratio	Change the Image Size, Quality, Compression Ratio	P.111
Power turns off automatically.	Batteries are partially used.	Replace with new batteries.	P.25
	Batteries are completely exhausted.	Batteries are completely exhausted. Camera will not turn on.	P.25
Power suddenly turns off.	Battery power is nearing exhaustion.	Batteries are completely exhausted. Camera will not turn on.	P.25
Image cannot be recorded.	The SmartMedia™ is not formatted.	Format the SmartMedia™.	P.80
	Exif Ver. 2.1 compliant	Change the camera to the photography or playback mode.	P.28
	The SmartMedia™ is full.	Change the camera to the photography or playback mode.	P.41
	Quality, Compression Ratio, Image Size	Change the Quality, Compression Ratio, Image Size	P.111
	The SmartMedia™ is write-protected.	Remove the write-protection or replace with a new SmartMedia™.	P.34
	The SmartMedia™ is not formatted.	Format the SmartMedia™.	P.80
	The SmartMedia™ is damaged.	Load a new SmartMedia™.	P.25
	The Auto Power OFF function is activated.	Turn the power on again.	P.110
	—	The SmartMedia™ is write-protected.	

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/3.5	FULL	41	83
1600 x 1200 pixels			HALF	22	166
1280 x 960 pixels	NORMAL ★★	1/5	SMALL	13	332
640 x 480 pixels	BASIC ★	1/8	FULL	7	62
			HALF	4	124
			SMALL	2	249

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/3.5	FULL	82	41
1600 x 1200 pixels			HALF	41	83
1280 x 960 pixels	NORMAL ★★	1/5	SMALL	22	166
640 x 480 pixels	BASIC ★	1/8	FULL	13	62
			HALF	7	124
			SMALL	4	249

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/5	FULL	49	199
1600 x 1200 pixels			HALF	24	399
1280 x 960 pixels	NORMAL ★★	1/6	SMALL	13	999
640 x 480 pixels	BASIC ★	1/8	FULL	7	249
			HALF	4	499
			SMALL	2	999

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/5	FULL	99	199
1600 x 1200 pixels			HALF	49	399
1280 x 960 pixels	NORMAL ★★	1/6	SMALL	24	999
640 x 480 pixels	BASIC ★	1/8	FULL	13	499
			HALF	7	999
			SMALL	4	1998

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/10	FULL	199	99
1600 x 1200 pixels			HALF	99	199
1280 x 960 pixels	NORMAL ★★	1/14	SMALL	49	399
640 x 480 pixels	BASIC ★	1/19	FULL	24	249
			HALF	13	499
			SMALL	7	998

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/7	FULL	249	49
1600 x 1200 pixels			HALF	124	99
1280 x 960 pixels	NORMAL ★★	1/14	SMALL	62	199
640 x 480 pixels	BASIC ★	1/19	FULL	31	124
			HALF	18	249
			SMALL	9	499

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/10	FULL	499	24
1600 x 1200 pixels			HALF	249	49
1280 x 960 pixels	NORMAL ★★	1/14	SMALL	124	99
640 x 480 pixels	BASIC ★	1/19	FULL	62	62
			HALF	31	124
			SMALL	18	249

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/14	FULL	998	12
1600 x 1200 pixels			HALF	498	24
1280 x 960 pixels	NORMAL ★★	1/19	SMALL	249	49
640 x 480 pixels	BASIC ★	1/24	FULL	124	24
			HALF	62	62
			SMALL	31	124

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/19	FULL	1998	6
1600 x 1200 pixels			HALF	998	12
1280 x 960 pixels	NORMAL ★★	1/24	SMALL	498	24
640 x 480 pixels	BASIC ★	1/30	FULL	249	12
			HALF	124	24
			SMALL	62	49

Image size	Quality	Compression Ratio	Image Size	Photography Time (secs)	Frame Size (max.)
2400 x 1600 pixels	FINE ★★★	1/24	FULL	1998	3
1600 x 1200 pixels			HALF	998	6
1280 x 960 pixels	NORMAL ★★	1/30	SMALL	498	12
640 x 480 pixels	BASIC ★	1/38	FULL	249	6
			HALF	124	12
			SMALL	62	24

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Problem	Causes	Remedy	See Page
I cannot use the flash to take pictures.	The mode dial has been changed to another setting.	Set the mode dial to the correct setting.	–
	The flash is set to Suppressed Flash mode.	Set the flash to Auto, Red-Eye Reduction or Forced Flash mode.	P.56
	You pressed the shutter button while the flash was charging.	Wait until charging is completed before pressing the shutter button.	P.118
The flash will not charge.	The camera is set to Suppressed Flash mode.	Set the flash to Auto, Red-Eye Reduction or Forced Flash mode.	P.57
	The batteries are exhausted.	Replace with new batteries.	P.25
The playback image is too dark even though I used the flash.	The subject is too far away.	Move closer to the subject. (about 2.6 ft (0.8 m) ~ 9.7 ft (3.0 m) (WIDE side setting))	P.92
Images cannot be played back.	No image saved in the folder	Select the folder containing images to play back.	P.56
The playback image is blurred.	The lens is not clean.	Clean the lens.	–
	The image is out of focus.	Set the FOCUS photography according to the distance up to the subject.	P.54
I cannot format the SmartMedia™.	The SmartMedia™ is write-protected.	Remove the write-protection.	P.34
I cannot erase all the frames.	The frame is protected.	Remove the write-protection. Cancel the DPOF setting.	P.108 P.102
	The SmartMedia™ is write-protected	Remove the write-protection.	P.34
Nothing happens when I use the buttons and switches.	Camera malfunction.	Turn the power off and remove the batteries once, and try again.	–
	The mode dial is not at the correct position.	Set the mode dial to the correct setting.	–
	The camera is in the Auto Power OFF mode.	Press the POWER button again to turn the camera on.	P.110

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Problem	Causes	Remedy	See Page
SmartMedia™ Problem	Not a correct SmartMedia™ is inserted.	Change the camera to the photography or playback mode.	P.41
Formatting error	The SmartMedia™ is not formatted by the camera.	Format the SmartMedia™.	P.58
Power supply and over-heating	Power supply is exhausted.	Replace with new batteries.	P.25
	Batteries are partially used.	Batteries are partially exhausted. Camera will stop soon.	P.80
	Batteries are exhausted.	Batteries are completely exhausted. Camera will not work.	P.25
	Temperature is too low.	Warm the batteries in your hand.	P.28
	Battery power is nearing exhaustion.	Batteries are completely exhausted. Camera will not work.	P.111
	The camera is overheated.	Turn the power off and wait a few minutes before using the camera.	P.25
Image size: 2400 x 1600 pixels	Image size is too large.	Change the image size.	P.41
Image size: 1600 x 1200 pixels			
Image size: 640 x 480 pixels			
Image size: 320 x 240 pixels			
Image size: 160 x 120 pixels			
RD ERROR	The SmartMedia™ is damaged.	Load a new SmartMedia™.	P.31
RMAT ERROR	The Auto Power OFF function is activated.	Turn the power on again.	P.110
RD PROTECTED	—	The SmartMedia™ is write-protected.	

Problem	Causes	Remedy	See Page
Image format	Exif Ver. 2.1 compliant	Change the camera to the photography or playback mode.	P.41
	DCF Ver. 1.0 compliant		
Image Mode	Quality	Image Size	File Size (max.)	8MB	16MB	32MB	64MB	128MB	
---	---	---	---	---	---	---	---	---	---
FINE	1/3	FULL	1536KB	5	10	20	41	83	
HIGH	1/4	HALF	768KB	10	20	41	83	166	
NORMAL	1/5	SMALL	192KB	41	82	166	332	666	
BASIC	1/5.5	FULL	1024KB	7	15	31	62	124	
FINE	1/6	HALF	320KB	24	49	99	199	399	
HIGH	1/7	SMALL	128KB	62	124	249	499	999	
NORMAL	1/8	FULL	512KB	18	31	62	124	249	
BASIC	1/10	HALF	160KB	49	99	199	399	799	
FINE	1/10	SMALL	64KB	124	248	498	998	1998	
HIGH	1/7								
NORMAL	1/14								
BASIC	1/19								
FINE	1/14								
HIGH	1/15								
NORMAL	1/16								
BASIC	1/20								

Image Mode	Quality	Image Size	Frame Size	Photography Time (secs) (max.)
FINE	1/10	FULL	16KB	30
HIGH	1/7	HALF	6KB	99
NORMAL	1/14	FULL	11KB	45
HIGH	1/10	HALF	4.5KB	120
BASIC	1/19	FULL	8KB	60
FINE	1/14	HALF	3KB	180

Problem	Causes	Remedy	See Page
The SmartMedia™ is not formatted (initialized).	The SmartMedia™ is not formatted by the camera.	Format the SmartMedia™.	P.31
	The SmartMedia™ format is incorrect.	Load a new SmartMedia™.	P.31
	Erasing the same image has reached 9999.	Load a new SmartMedia™.	P.87
	The image size, quality or other has reached the limit and cannot increase space on the SmartMedia™.	Change the resize, quality or other settings.	P.94
	The image is write-protected.	Remove the write-protection or replace with a new SmartMedia™.	P.96
	The SmartMedia™ does not exist.	Load a new SmartMedia™.	P.34
	There is not enough space on the SmartMedia™.	Format the SmartMedia™ or use another SmartMedia™ to copy image data to.	P.91
Conversion rules	The SmartMedia™ is damaged.	Load a new SmartMedia™.	P.31
	The format of the SmartMedia™ to copy image data is incorrect.	Turn the power on again.	P.110
RD PROTECTED	—	The SmartMedia™ is write-protected.	

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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.

- DPOF (Digital Print Order Format)
  A standard for directly writing print information to the SmartMedia™. Files in this format can be printed easily by printers or photo print service bureaus that support this format.

- DCF (Design rule for Camera File System)
  A file system standard defined by the JEIDA (Japan Electronic Industry Development Association) that is required for exchanging data between digital still cameras or a digital camera and a printer. This standard defines the hierarchy and file names used when storing image files on memory cards or other recording medium.

- Exif File Format (Exchangeable Image File Format)
  A color still image format for digital still cameras approved by the JEIDA (Japan Electronic Industry Development Association). JPEG-compliant, this format is compatible with TIFF and JPEG and can be used in image processing software for most personal computers.

- JPEG
  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

- PC Card
  A generic term for cards that meet the PC Card Standard.

- 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.

- 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 still cameras see a white subject as white by first 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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● SmartMedia™

Non-Exposure Storage Medium

Formatting

Image Size

Image Quality

Compression Ratio

Exif Ver. 2.1

DCF

DPOF

PRINT Image Matching

● Exposure Compensation

● Erasing Images

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Global Contacts

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China Hong Kong	Toshiba Hong Kong Ltd.	2956-0222	NA	www.toshiba.com.hk
France	Toshiba Systems (France)	01 47 28 28 50	consommateur@toshiba-tsf.com	www.toshiba.fr/produits/video/index.htm
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Italy	Toshiba Consumer Products (Italia)	(039) 6099342	toshiba.italia@toshiba-tuk.com	www.toshiba.it/
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United Kingdom	Toshiba (UK) Ltd.	(01932) 828828	enquiries@toshiba-tuk.com	www.toshiba.co.uk
United States	Toshiba America Information Systems, Inc.	(800) 829-8318	dsc.support@tais.toshiba.com	www.toshiba.com/taisisd

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For customers in the U.K.

Website for digital cameras: www.toshiba.co.uk
Technical support is available on-line, or by calling (0115) 9766958.

9.00am to 5.00pm Monday to Friday except bank holidays,
or e-mail us at: enquiries@toshiba-tuk.com

Toshiba European Service Centre
Units 6&7 Admiralty Way, Camberley, Surret, GU15 3DT, U.K.

For customers in the U.S.A. and Canada

Register your product on-line at www.toshiba.com/taisisd
Technical support is available on-line, or by calling (800) 829-8318.

8:00 a.m. to 5:00 p.m. EST, Monday to Friday except holidays,
or e-mail us at: dsc.support@tais.toshiba.com

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