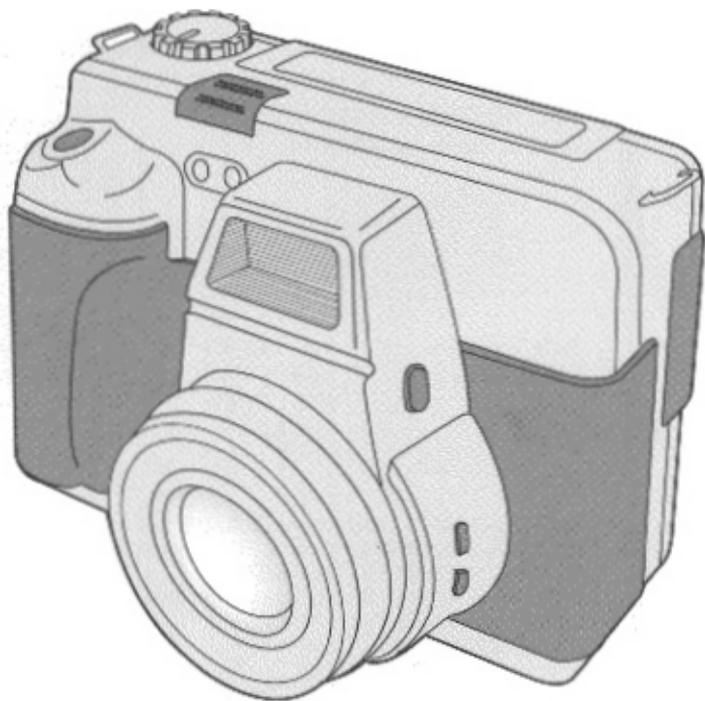


Panasonic®

Digital Camera
Operating Instructions
Model No. **PV-SD5000**



 PalmCam®

SUPER DISK™

For assistance, please call : 1-800-272-7033.

Before attempting to connect, operate or adjust this product, please read these instructions thoroughly, and keep them for future reference.

LSQT0287A

Things You Should Know

Attach your purchase receipt here

Thank you and congratulations

on your purchase of this state of the art Panasonic Digital Camera. This product has been manufactured and tested to Panasonic's highest standards to give you the best in performance and reliability. **Save this operating instruction manual** as an operating and information guide.

Date of Purchase _____

Dealer Purchased From _____

Dealer Address _____

Dealer Phone No. _____

Model No. _____

Serial No. _____

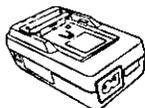
Unpack your Digital Camera

Please confirm that the following items are packed in the Digital Camera box. They are provided to help you use or set up your Digital Camera.

1pc. Digital Camera
(PV-SD5000)



1 pc. AC Adaptor (LSSQ0239)
with AC Cable (VJAW0044)



1pc. DC POWER
Cable (LSJA0277-1)



1 pc. USB Cable
(LSJA0265-1)



1pc. A/V Cable
(LSJA0278)



1pc. Lithium Ion
Battery Pack
(PV-DBP5)



1pc. SuperDisk
Diskette (LSFT0188)



1pc. Camera Strap
(LSFC0013)



1pc. CD-ROM of USB Driver Software for
Windows 98 and Macintosh / File Converter
for Windows 98/2000 / QuickTime™
Software / Adobe® PhotoDeluxe® Software
for Windows 95/98 and Macintosh
(LSFT0222)



1pc. Lens Cap
(LSFB0011)



1pc. Lens Cap
Holder (VGQW0075)



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Macintosh and iMac are registered trademarks of Apple Computer Inc.

QuickTime and the QuickTime logo are trademarks used under license. QuickTime is registered in the US and other countries.

Adobe, the Adobe logo & PhotoDeluxe are trademarks of Adobe Systems Inc.

All product/brand names are trademarks or registered trademarks of the respective holders.

Safety Precautions

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD,
DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.**

Note: This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

If necessary, consult the dealer or an experienced radio/TV technician for help. You may find the booklet, 'Something About Interference' available from FCC local regional offices helpful.

FCC Warning:

To assure continued FCC compliance, use only the provided shielded interface cable with ferrite core when connecting digital camera to computer in accordance with instruction herein. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate.

Declaration of Conformity

Model Number : **PV-SD5000**
Trade Name : **Panasonic**
Responsibility Party : **Matsushita Electric Corporation of America**
Address : **One Panasonic Way Secaucus New Jersey 07094**
Telephone Number : **1-800-211-PANA (7262)**

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.

CAUTION:

UNIT IS A CLASS I LASER PRODUCT.
HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE UNIT CORRECTLY AS INSTRUCTED.

WHEN THIS UNIT IS PLUGGED TO THE WALL OUTLET. DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED. HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION:

LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM.

ATTENTION:

RAYONNEMENT LASER EN CAS D'OUVERTURE.
NE PAS REGARDER DANS LE FAISCEAU.

(inside of product)

Important Safeguards

1. **Read Instructions** — All the safety and operating instructions should be read before the unit is operated.
2. **Retain Instructions** — The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** — All warnings on the unit and in the operating instructions should be adhered to.
4. **Follow Instructions** — All operating and maintenance instructions should be followed.
5. **Cleaning** — Unplug this video unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for cleaning.
6. **Attachments** — Do not use attachments not recommended by the video product manufacturer as they may be hazardous.
7. **Water and Moisture** — Do not use this video unit near water — for example near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. **Accessories** — Do not place this video unit on an unstable cart, stand, tripod, bracket, or table. The video unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video unit. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
9. **Ventilation** — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video unit and to protect it from overheating. These openings must not be blocked or covered. Never place the video unit on a bed, sofa, rug, or other similar surface, or near or over a radiator or heat register. This video unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. **Power Sources** — This video unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video units intended to be operated from battery power, or other sources, refer to the operating instructions.
11. **Grounding or Polarization** — This video unit may be equipped with either a polarized 2-wire AC (Alternating Current) line plug (a plug having one blade wider than the other) or 3-wire grounding type plug, a plug having a third (grounding) pin.
The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
The 3-wire grounding type plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.
12. **Power-Cord Protection** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords of plugs, convenience receptacles, and the point where they exit from the unit.
13. **Lightning** — For added protection of this video unit receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video unit due to lightning and power-line surges.
14. **Overloading** — Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
15. **Objects and Liquids** — Never push objects of any kind into this video unit through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind onto the video unit.
16. **Servicing** — Do not attempt to service this video unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



Important Safeguards

17. **Damage Requiring Service** — Unplug this video unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If any liquid has been spilled onto, or objects have fallen into the video unit.
 - c. If the video unit has been exposed to rain or water.
 - d. If the video unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video unit to its normal operation.
 - e. If the video unit has been dropped or the cabinet has been damaged.
 - f. When the video unit exhibits a distinct change in performance -- this indicates a need for service.
18. **Replacement Parts** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
19. **Safety Check**— Upon completion of any service or repairs to this video unit, ask the service technician to perform safety checks to determine that the video unit is in safe operating order.

Precautions

USE & LOCATION

- **TO AVOID SHOCK HAZARD ...** Your Digital Camera and power supply should not be exposed to rain or moisture. Do not connect the power supply or operate your Digital Camera if it gets wet. Your Digital Camera has been designed for outdoor use, however it is not designed to sustain direct exposure to water, rain, sleet, snow, sand, dust, or a direct splashing from a pool or even a cup of coffee. This action could permanently damage the internal parts of your Digital Camera. Do not attempt to disassemble this unit. There are no user serviceable parts inside. Unplug your Digital Camera from the power supply and have it serviced.
- **DO NOT AIM YOUR DIGITAL CAMERA AT THE SUN OR OTHER BRIGHT OBJECTS.**
- **DO NOT EXPOSE YOUR DIGITAL CAMERA TO EXTENDED HIGH TEMPERATURE ...** Such as, in direct sunlight, inside a closed car, next to a heater, etc... This action could permanently damage the internal parts of your Digital Camera.
- **AVOID SUDDEN CHANGES IN TEMPERATURE ...** If the unit is suddenly moved from a cold place to a warm place, moisture may form inside the unit.
- **DO NOT LEAVE YOUR DIGITAL CAMERA OR THE POWER SUPPLY TURNED ON WHEN NOT IN USE.**
- **STORAGE OF YOUR DIGITAL CAMERA ...** Store and handle your Digital Camera in a manner that will not subject it to unnecessary movement (avoid shaking and striking). Your Digital Camera contains a sensitive pick-up device which could be damaged by improper handling or storage.

CARE

- **TO CLEAN YOUR DIGITAL CAMERA ...** Do not use strong or abrasive detergents when cleaning your Digital Camera body.
- **TO PROTECT THE LENS ...** Do not touch the surface of the lens with your hand. Use a commercial Digital Camera lens solution and lens paper when cleaning the lens. Improper cleaning can scratch the lens coating.
- **TO PROTECT THE FINISH OF YOUR DIGITAL CAMERA ...** Before handling your Digital Camera, make sure your hands and face are free from any chemical products, such as suntan lotion, as it may damage the finish.

Table of Contents

Getting Started

Things You Should Know	2
Safety Precautions	3
Important Safeguards	4
Precautions	5
Index of Controls	7
On Screen Display (OSD)	9
LCD Monitor Indication	10
Power Supply	12
Removing the Lens Cap and Attaching the Camera Strap	15
Inserting the SuperDisk™ Diskette or Floppy Disk	16
Operating the MENU Screen	18
Setting the Clock	20

Basic Operation

Capturing Images (REC or MANUAL REC mode, AUDIO, Motion Image Rec Mode, Burst Rec Mode, Beep, RapidFire™, Quick Rec (FD), Manual Mode)	21
Adjusting LCD Viewfinder Brightness	31
Playing Back Captured Images	32
Viewing Images on a TV Screen and Transferring Images to a VCR	35

Special Features

Using the Built-in Flash	36
White Balance	37
Light Metering	38
Self Timer Recording	39
Time Lapse Recording	40
To Delete Specific Images	41
Multi Delete	42
Formatting the Disk Media	43
Multi Copy	44
To Copy All Images	45
Slide Show	46
Transferring Your Images (Windows)	47
Transferring Your Images (Macintosh)	55
SuperDisk Drive	62
Using the SuperDisk Drive (Windows)	63
Using the SuperDisk Drive (Macintosh)	65
Using the SuperDisk Drive	66
Print Mark	67

For Your Information

Digital Camera Accessory	68
Digital Camera Accessory Order Form	69
Before Requesting Service	70
Warning Indications	71
Specifications	73
Warranty	74
Service Center Directory	75
Index	76

Caution

- Do not subject unit to strong impact during record or playback. Unit may not function normally.
- Do not use in extreme heat (104° F and above). This may damage the disk. Also, in extremely hot places (104° F and above), remove the disk from the camera and store to avoid damaging disk.
- Be sure to make a backup copy of important data.

Index of Controls

Front View

MIC

See page 24.

Self-Timer Indicator

See page 39.

FLASH Emitter

See page 36.

Lens

Lens Cap

See page 15.

Light Sensor

See page 36.

MANUAL Button

See pages 29, 30.

MANUAL Select Δ/∇ Buttons

See page 29.

Rear View

ZOOM (T/W)

See pages 21, 22, 24.

POWER LED

See page 18.

ACCESS LED

See page 17.

VOL+ Button

See pages 32, 33.

Select Δ Button

See pages 18, 19.

- Button

See pages 31, 32, 34.

Select \triangleleft Button

See pages 18, 19.

REC REV Button

See page 28.

Emergency Eject hole

See page 16.

EJECT Button

See page 16.

Speaker

SuperDisk Slot

See pages 16, 50, 57.

ACCESS LED

See page 17.

+ Button

See pages 27, 31, 32, 33.

Select \blacktriangleright Button

See pages 18, 19.

VOL- Button

See pages 32, 33.

Select ∇ Button

See pages 18, 19.

Index of Controls

Rear View

To PC Terminal

See pages 49,
50, 56, 57.

AV OUT Jack

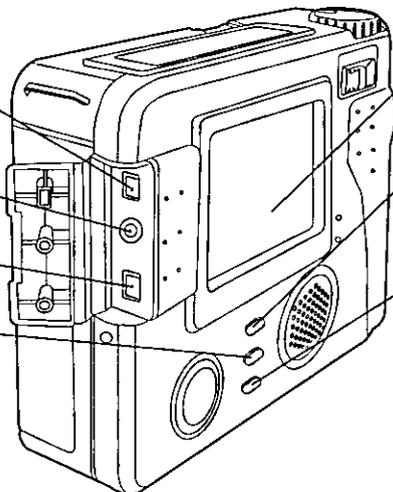
See page 35.

DC IN Jack

See page 14.

MENU Button

See pages 18, 19.



LCD Viewfinder

See pages 21, 22,
24, 31, 32.

REC MODE

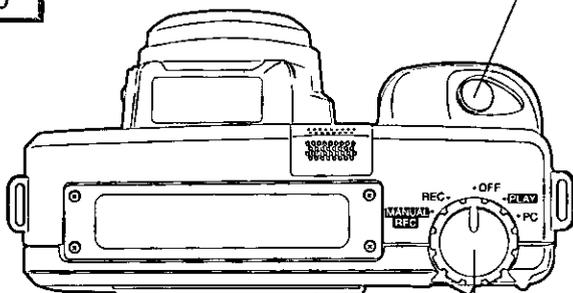
Button

See pages 21, 22,
24, 25, 27, 29.

FLASH Button

See pages 36, 42,
44.

Top View



SHTR (SHUTTER)

See pages 21, 34,
39, 40, 41~45.

POWER Switch

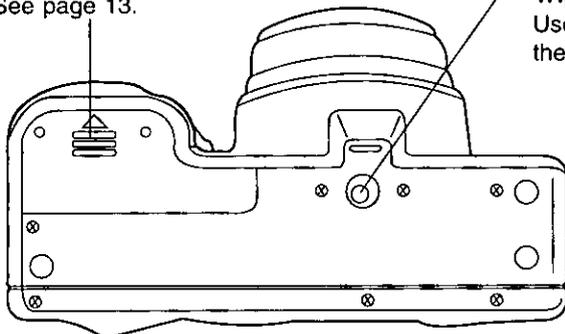
(PC•PLAY•OFF•REC•MANUAL REC)

See pages 18, 19.

Bottom View

Battery Compartment

See page 13.



Tripod Receptacle

Used when securing
the camera to a tripod.

On Screen Display (OSD)

The indication displayed on the LCD screen will tell you the operation status of the Digital Camera.

REC OSD

White Balance Mode

(See page 37.)
 AUTO : No Indication
 INDOOR : *
 OUTDOOR : *
 WHITE SET : WS

Flash Mode

(See page 36.)
 AUTO : No Indication
 ON : ⚡
 RED EYE : ⚡
 OFF : Ⓞ

SLOW

(See pages 21, 22.)
 Displayed if SLOW SHUTTER is set to ON in the MENU screen.

RapidFire™

(See page 27.)
 OFF : No Indication
 ON : RAPID

Focus

(See pages 29, 30.)
 AUTO : AF
 ZONE : △, □, ○

Exposure

(See pages 29, 30.)
 -1.5, -1.0, -0.5, 0, +0.5, +1.0, +1.5

Image Pages left in memory

PLAY OSD

Audio

Displayed when image with AUDIO is played. Not displayed when movie is played. (See page 32.)

Print Mark

(See page 67.)

Print Number

(See page 67.)

Directory/
Image Number

Light Metering Mode

(See page 38.)
 AUTO : No Indication
 SPOT : □

Self-Timer Mode

(See page 39.)

Audio

Displayed when image with AUDIO is recorded. (See pages 22, 24.)

RapidFire™ Page Remain (See page 27.)

REC

Displayed when image is recorded.

Zoom 3X Area

(See page 25.)

Zoom 2X Area

(See page 25.)

Date/Time Indication

(See page 20.)

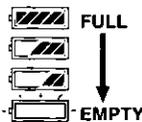
Program AE

(See pages 29, 30.)
 1/500, 1/125, AE, F2.0, F8.0

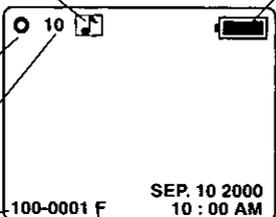
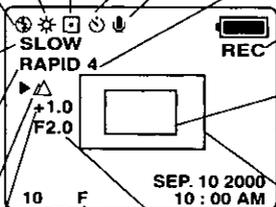
Recording Mode :

SF(Super Fine), F(Fine), N(Normal), 2X, 3X(Zoom), (Motion Image Rec Mode), (Burst Rec Mode), TIFF (Tagged Image File Format). (See page 25.)

Battery Condition



As the Battery is depleted, the indication changes. POWER LED will flash when battery is empty.



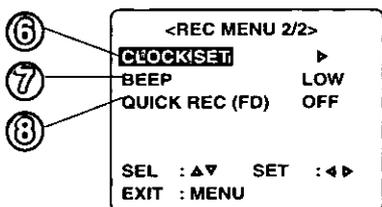
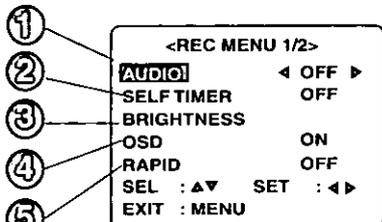
Displayed Image Page and its captured mode, SF(Super Fine), F(Fine), N(Normal), (Motion Image Rec Mode), or TIFF (Tagged Image File Format).

• If the image is captured in 2X, 3X (Zoom) or (Burst Rec Mode), the displayed image mode will be N(Normal).

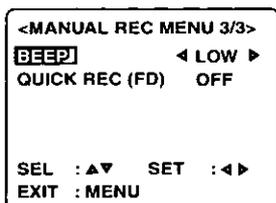
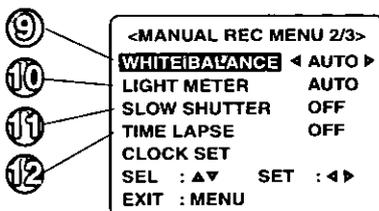
LCD Monitor Indication

Recording Menu

[REC Mode]

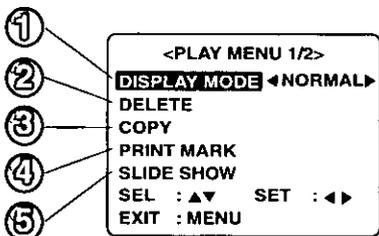


[MANUAL REC Mode]

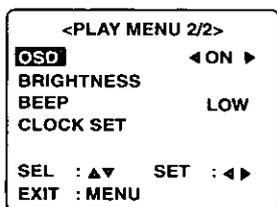


- ① **AUDIO** (See pages 22, 24.)
To select audio recording ON/OFF.
- ② **SELF TIMER** (See page 39.)
To set Self Timer.
- ③ **BRIGHTNESS** (See page 31.)
To adjust LCD Viewfinder brightness.
- ④ **OSD** (See pages 9, 10, 11.)
To select OSD display ON/OFF.
- ⑤ **RAPID** (See page 27.)
To select RapidFire™ mode ON/OFF.
- ⑥ **CLOCK SET** (See page 20.)
To set clock.
- ⑦ **BEEP** (See page 26.)
To select beep mode when capturing images.
- ⑧ **QUICK REC (FD)** (See page 28.)
To select Quick Rec (FD) mode ON/OFF when capturing images to a Floppy Disk.
- ⑨ **WHITE BALANCE** (See page 37.)
To change to one of the 4 White Balance modes.
- ⑩ **LIGHT METER** (See page 38.)
To change to AUTO or SPOT.
- ⑪ **SLOW SHUTTER** (See pages 21, 22.)
To select slow shutter. By selecting "ON", you can capture more beautiful images in comparatively dark places.
- ⑫ **TIME LAPSE** (See page 40.)
To set time lapse recording.

Playback Menu



- ① **DISPLAY MODE** (See pages 32, 33, 34.)
Select playback mode.
- ② **DELETE** (See pages 41, 42, 43.)
Delete image from SuperDisk Diskette or Floppy Disk.
- ③ **COPY** (See pages 44, 45.)
To set copy.
- ④ **PRINT MARK** (See page 67.)
To set print mark.
- ⑤ **SLIDE SHOW** (See page 46.)
Playback images as slide show.



On Screen Display Order



Set OSD OFF in the MENU screen



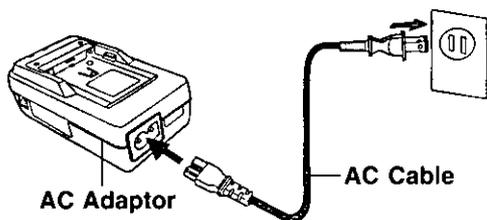
Set OSD ON in the MENU screen

Note

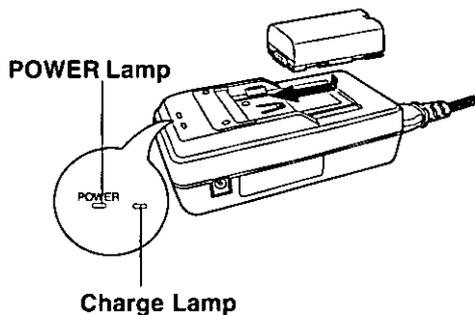
- Press MENU to display MENU screen, then select OSD: ON.
- If you select OFF, OSDs will not be displayed.

Power Supply

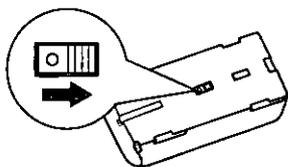
Charge the Battery Pack on the AC Adaptor



- 1** Connect AC Cable (supplied) to AC IN on the AC Adaptor and plug the AC Adaptor into an AC outlet.
 - POWER Lamp lights red.
 - Disconnect DC Cable if it is connected to AC Adaptor.



- 2** Attach the Battery as shown to charge.
 - Charge Lamp on the AC Adaptor flashes green. When lamp stops flashing, the Battery is fully charged. (Takes approx. 1 hour 40 minutes.)
- 3** Remove the Battery.
Slide the Battery out and then lift up.

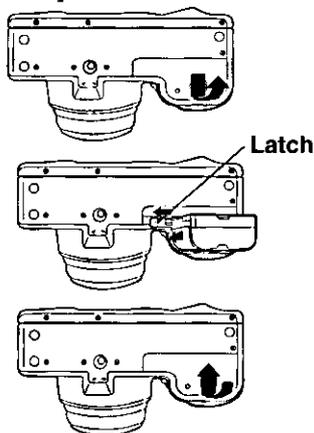


Battery Charging Confirmation Marker
Use this marker as a reminder to yourself when the Battery is fully charged or in need of a charge. This marker performs no function and is for your reference only.

- The Battery is no longer serviceable if the operation time is very short, even after a sufficient charge.

Loading the Lithium Battery

[Bottom View]



- 1 Slide the Battery Compartment lid in the direction of the arrow and swing it open.
- 2 While sliding Latch, insert the Lithium Ion Battery until it locks into place.
 - Be sure to use a Lithium Ion Battery. Be sure that the direction of the arrow on the battery is facing down when inserting it into the camera.
- 3 Swing the Battery Compartment lid down and slide it shut.

WARNING! Do not dispose of Battery in fire, put in backwards, disassemble, or short circuit; otherwise it may leak or burst, causing possible personal injury.

Battery Notes

Caution:

- Charge only with specified charger.
- The Battery can be charged within a temperature range of 32° F (0° C) and 104° F (40° C).
- The Battery may be warm after charging or just after use. This is normal.
- Do not use an insufficiently charged or worn out Battery.
- In extreme cold surroundings, Battery charging time will increase.

Safety precautions:

- Do not get the Battery near, or dispose of in fire.
- Do not directly connect (short circuit) the positive (+) and negative (-) terminals.
- Never attempt to disassemble or reassemble the Battery.

To avoid damage to the Battery:

- Do not drop or jar the Battery.
- Use the Battery with specified models only.
- If the Battery is used in extremely high temperatures, a safety device will automatically prevent operation.

To insure longer battery life:

- **While not in use, remove Battery from the Digital Camera and AC Adaptor and store in a cool, dark, dry place.** If you leave the Battery in the Digital Camera or on the AC Adaptor for a long time, the Battery will no longer be rechargeable.
- Keep the Battery terminals clean.

Operation Time

When using the supplied Panasonic Lithium Ion Batteries, you may get a maximum of about 200 images (at an ambient temperature of 25° C under the following conditions).

- Capturing an image every 30 seconds.
- Using Flash once for every other capture.
- Recording mode is Fine.

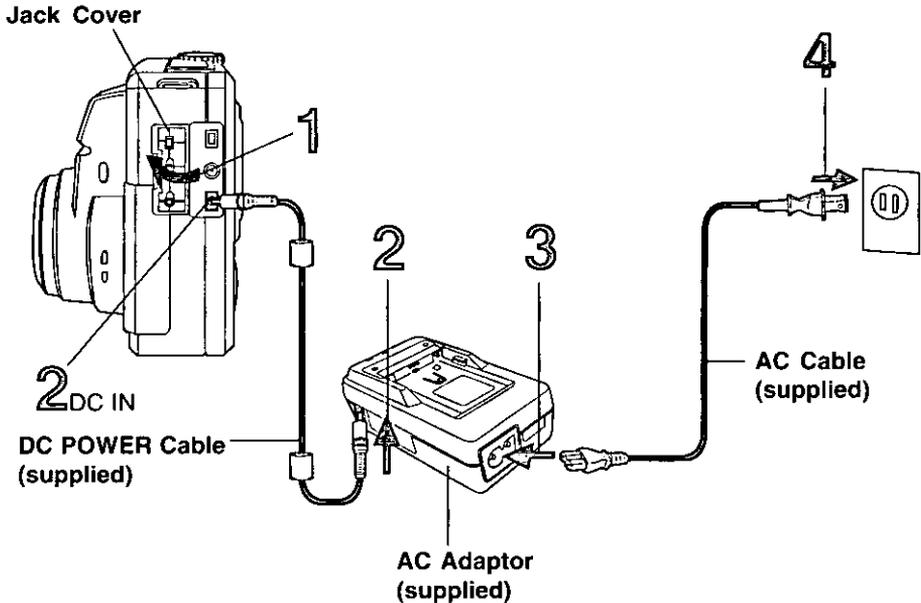
CAUTION

Replace with Panasonic PV-DBP5 or CGR-B/202A1B only. Use of another battery may present a risk of fire or explosion. **Caution-** battery may explode if mistreated.

Do not disassemble or dispose of in fire. Keep battery out of reach of children. Danger of explosion if battery is incorrectly inserted. Dispose of used battery promptly.

Power Supply

Using AC Adaptor



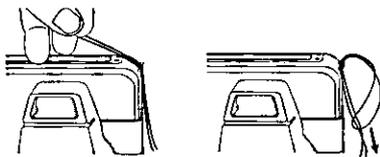
- 1 Pull up the Jack Cover.
- 2 Connect DC POWER Cable (supplied) to DC OUT on the AC Adaptor and DC IN on the Digital Camera.
- 3 Connect AC Cable (supplied) to AC IN on the AC Adaptor.
- 4 Plug the AC Adaptor into an AC outlet.

Note

- While not in use, unplug the AC Adaptor from the AC outlet.
- Use the supplied Panasonic AC Adaptor.
- Do not connect AC Adaptor after turning POWER on.
- When the DC Cable is connected during charging, the power supply is given priority and charging will not be possible.

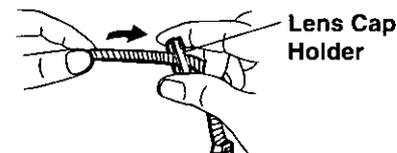
Removing the Lens Cap and Attaching the Camera Strap

Attaching the Lens Cap Cord

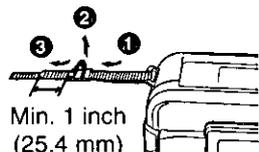
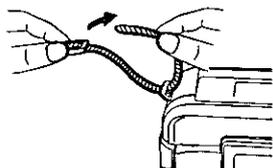


- 1 Thread the Lens Cap cord through the Strap Attachment Ring.
- 2 Run the Lens Cap through the cord loop and pull tight.

Attaching the Camera Strap



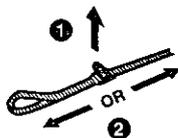
Lens Cap Holder



Min. 1 inch
(25.4 mm)

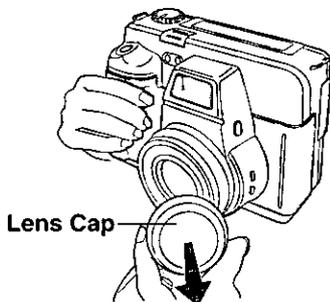
- 1 Thread the Lens Cap Holder onto the strap.
- 2 Thread the strap ends through the Strap Attachment Rings.
- 3 Reinsert the strap ends through their buckles.
 - Make sure the straps are not twisted.

Adjust the Length



- 1 Loosen the strap from the Buckle and create a loop.
- 2 Pull the strap firmly through the Buckle to shorten or lengthen the strap.

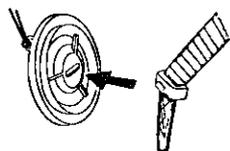
Removing the Lens Cap



While pinching the sides of the Lens Cap, pull the Lens Cap off.

Note

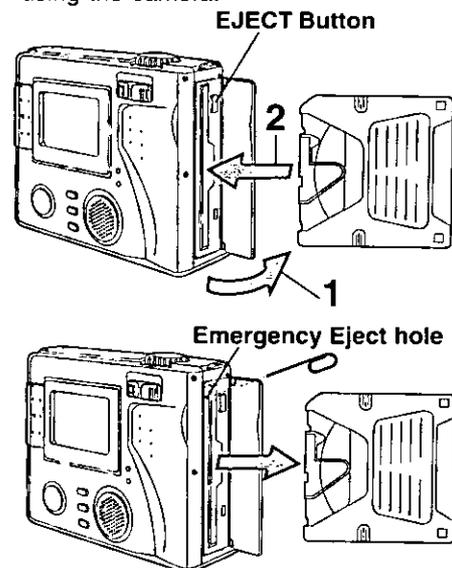
- Always remove the Lens Cap before use.
- When using the camera, insert the Lens Cap into the Lens Cap Holder.



Inserting the SuperDisk™ Diskette or Floppy Disk

Inserting the Disk Media:

- The captured images will be stored on the Disk Media.
- Be sure to insert the Disk Media before using the camera.



1 Turn the Power ON, open the cover and insert the Disk Media.

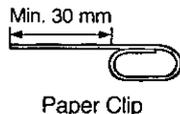
2 Push the Disk Media fully into the SuperDisk Drive.

Removing the Disk Media:

Set the POWER Switch to REC, PLAY or PC. Push the EJECT button so the Disk Media pops out. (Be careful not to drop the Disk Media.)

Emergency Ejection of the Disk Media:

If, for some reason, the Disk Media does not eject automatically, you can eject manually. (Turn POWER OFF before proceeding.) Insert a straightened paper clip, etc., (diameter = 1 mm~1.5 mm, min. length = 30 mm) into the Emergency Eject hole.



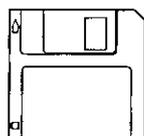
Using a Floppy Disk

A Floppy Disk (not supplied) which has been formatted to Windows on your Floppy Disk Drive can be used in the SuperDisk Drive. (See pages 62, 65.)

When using a new Floppy Disk, it is recommended that the Disk be inserted into the Digital Camera and formatted (Quick Format).

If a read error occurs in the PC Floppy Disk Drive, use the Digital Camera to read the data.

SuperDisk Diskette	120 MB Format
Floppy Disk (2HD)	1.44 MB Format



*SuperDisk Diskette *Floppy Disk (2HD)

*Data transfer using USB cable is applicable only for Microsoft® Windows® 98 preinstalled PC with USB port, Windows® 2000 PC, iMac®, iBook®, Power Macintosh® G3 with USB port or Power Mac™ G4 and Mac OS version 8.1 or later.

- The USB Driver software for Windows 2000 is currently not available, but will be available in the future on our website at www.panasonic.com/palmcam or by calling 1-800-272-7033.

Note

- Only DOS formatted floppy disks can be used with this Camera. Macintosh OS formatted floppy disks must be re-formatted to DOS with this camera.
- You can use this unit as a SuperDisk Drive. (See pages 49, 56.)
- The SuperDisk Diskette is only used for SuperDisk Drive.
- To format the Disk Media, see pages 62, 65.

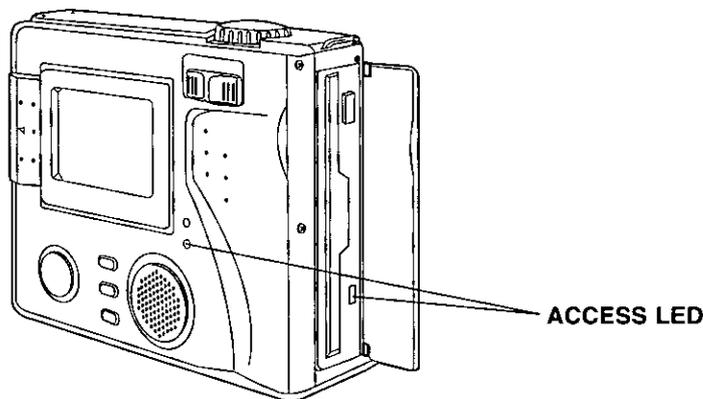
Inserting the SuperDisk™ Diskette or Floppy Disk

Note

- Do not bend, drop, apply high pressure or subject the Disk Media to strong shocks.
- Do not store it in places with high temperature, high humidity, a lot of dust, or static electricity and strong electromagnetic waves.
- Keep the Disk Media's contacts free from dust, water or other foreign substances. Do not touch them with your fingers, etc.
- Do not disassemble or deform the Disk Media.
- Be sure to make a backup copy of important data.
- Make sure that you do not insert the Disk Media in the wrong direction.
- Do not, under any circumstances, eject the Disk Media immediately after pressing the SHUTTER Button (during recording of an image) or while deleting (when "PLEASE WAIT" is displayed). This could damage the format of the Disk Media and make them unusable.
- When the Disk Media does not eject after pressing the EJECT Button, push the Disk Media fully into the slot again and then press the EJECT Button firmly.
- "NO DISK" will appear on the LCD Viewfinder when the Disk Media is not inserted.
- "DISK ERROR" will appear on the LCD Viewfinder if the Disk Media is defective.

Caution

- The ACCESS LED lamp will flash when the Digital Camera is accessing the Disk Media. Never expose this unit to strong vibrations or impacts while ACCESS LED lamp is flashing. And, do not turn off the Power, take out a Disk Media, or remove the Battery when ACCESS LED lamp is flashing.

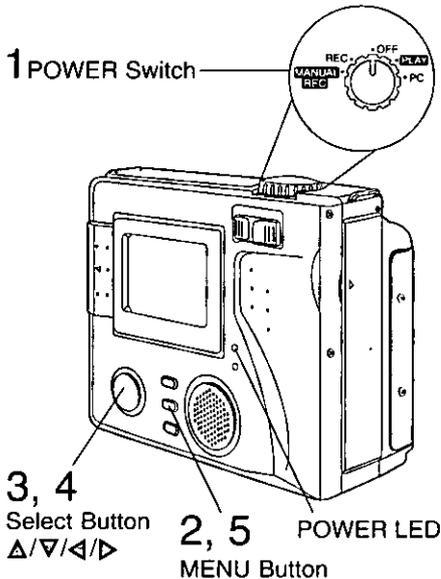


For additional information regarding Imation SuperDisk products, please call 1-888-466-3456.

Operating the MENU Screen

How to operate the MENU screen

Please refer to pages 10-11 for explanation of each menu item.



Example of Menu Screens

[REC mode]

```
<REC MENU 1/2>
AUDIO          ◀ OFF ▶
SELF TIMER    OFF
BRIGHTNESS
OSD           ON
RAPID         OFF
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

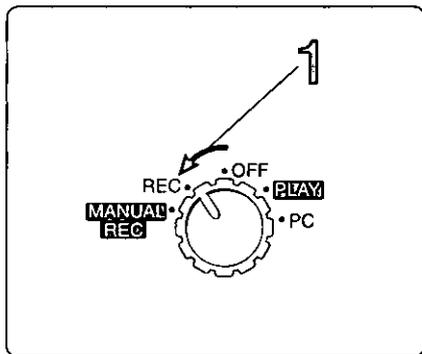
[PLAY mode]

```
<PLAY MENU 1/2>
DISPLAY MODE ◀ NORMAL ▶
DELETE
COPY
PRINT MARK
SLIDE SHOW
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

[MANUAL REC mode]

```
<MANUAL REC MENU 1/3>
AUDIO          ◀ OFF ▶
SELF TIMER    OFF
BRIGHTNESS
OSD           ON
RAPID         OFF
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

When selecting REC mode



2 Press MENU to display MENU screen.

```
<REC MENU 1/2>
AUDIO          ◀ OFF ▶
SELF TIMER    OFF
BRIGHTNESS
OSD           ON
RAPID         OFF
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

3 Press Δ or ∇ to select the item.

```
<REC MENU 1/2>
AUDIO          OFF
SELF TIMER    OFF
BRIGHTNESS
OSD           ◀ OFF ▶
RAPID         OFF
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

4 Press \leftarrow or \rightarrow to set it.

```
<REC MENU 1/2>
AUDIO          OFF
SELF TIMER    OFF
BRIGHTNESS
OSD           ◀ OFF ▶
RAPID         OFF
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

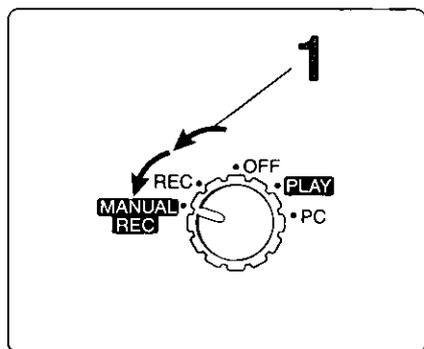
5 Press MENU to exit.

1 Remove the Lens Cap. Set POWER Switch to REC.

- Turn the dial so that it clicks into position.
- The POWER LED lamp lights up.

Operating the MENU Screen

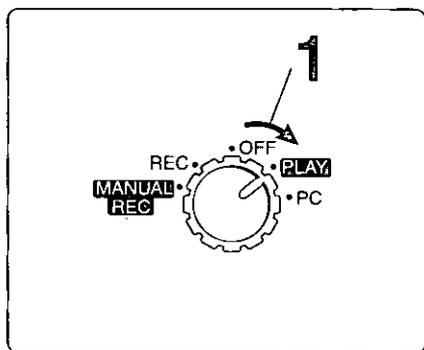
When selecting MANUAL REC mode



- 1 Remove the Lens Cap. Set POWER Switch to **MANUAL REC**.

- Turn the dial so that it clicks into position.
- The POWER LED lamp lights up.

When selecting PLAY mode



- 1 Set POWER Switch to **PLAY**.
- Turn the dial so that it clicks into position.
 - The POWER LED lamp lights up.

- 2 Press **MENU** to display MENU screen.

```
<MANUAL REC MENU 1/3>
AUDIO          < OFF >
SELF TIMER     OFF
BRIGHTNESS
OSD            ON
RAPID          OFF
SEL : ▲▼ SET : <▶
```

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

```
<MANUAL REC MENU 1/3>
AUDIO          OFF
SELF TIMER     OFF
BRIGHTNESS
OSD            < ON >
RAPID          OFF
SEL : ▲▼ SET : <▶
```

- 4 Press **<** or **>** to set it.

```
<MANUAL REC MENU 1/3>
AUDIO          OFF
SELF TIMER     OFF
BRIGHTNESS
OSD            < OFF >
RAPID          OFF
SEL : ▲▼ SET : <▶
```

- 5 Press **MENU** to exit.

- 2 Press **MENU** to display the MENU screen.

```
<PLAY MENU 1/2>
DISPLAY MODE < NORMAL >
DELETE
COPY
PRINT MARK
SLIDE SHOW
SEL : ▲▼ SET : <▶
```

- 3 Press **▲** or **▼** to select the item.
 - When there is no image in Play mode, OSD, BRIGHTNESS, BEEP, and CLOCK SET functions are not available.

```
<PLAY MENU 2/2>
OSD            < ON >
BRIGHTNESS
BEEP          LOW
CLOCK SET
SEL : ▲▼ SET : <▶
```

- 4 Press **<** or **>** to set it.

```
<PLAY MENU 2/2>
OSD            < OFF >
BRIGHTNESS
BEEP          LOW
CLOCK SET
SEL : ▲▼ SET : <▶
```

- 5 Press **MENU** to exit.

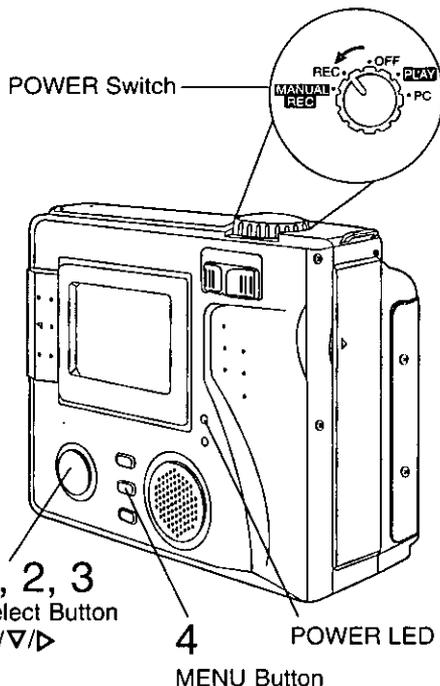
Note

- While REC is sufficient for normal recording, select MANUAL REC when you want to make more precise settings.
- The REC, MANUAL REC, and PLAY menus consist of multiple pages. Press **▼** or **▲** repeatedly to scroll to the next or previous menu page.
- REC and PLAY functions cannot be operated while MENU screen is displayed.

Setting the Clock

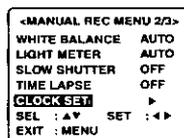
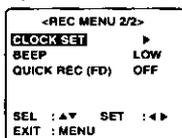
Before you begin

Remove the Lens Cap. Set the POWER Switch to REC, MANUAL REC or PLAY. (See pages 18, 19.) Press MENU to display the MENU screen.



- 1 Press Δ or ∇ to select **CLOCK SET** in the MENU screen.

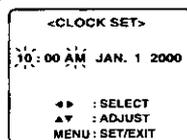
[REC mode] [MANUAL REC mode]



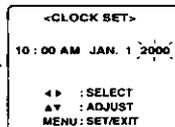
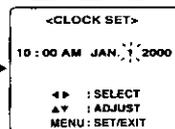
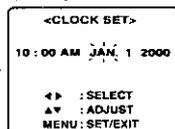
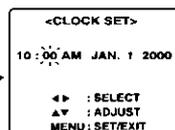
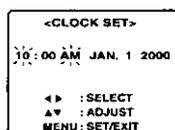
[PLAY mode]



- 2 Press \triangleright to display **CLOCK SET** menu.



- 3 Press or hold down Δ or ∇ to select hour, then press \triangleright to set.
 - Repeat for minute, month, day and year.
 - Double check all items before exiting the menu.



- 4 Press **MENU** twice to exit. Clock starts when menu is exited.

Note

- To make corrections, repeat steps 1-3.
- The clock will continue to operate about 8 hours after the battery has been removed. If you need to set clock again, repeat these steps.

**Super Fine Mode, Fine Mode,
Normal Mode, Zoom (2X, 3X)
Mode, TIFF Mode**

Before you begin

Remove the Lens Cap. Set the POWER Switch to REC or MANUAL REC.

(See pages 18, 19.)

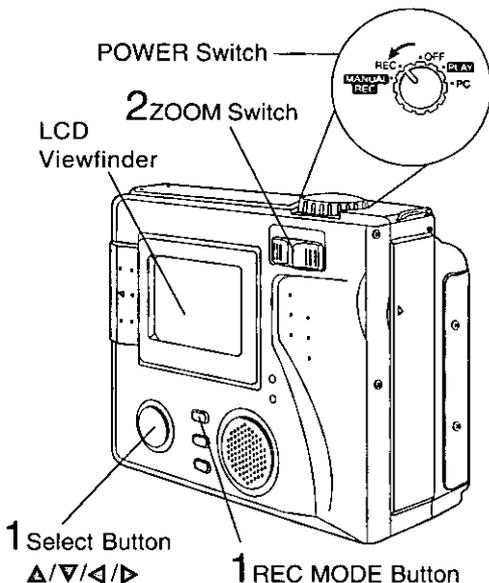
- 1 Press **REC MODE** repeatedly to select recording mode (SF, F, N, ZOOM (2X, 3X), TIFF). (See page 25.)
 - If you want to use **SLOW SHUTTER**: In Manual Rec mode, press **MENU** to display the MENU screen, and then press **▲** or **▼** to select **SLOW SHUTTER**. Press **◀** or **▶** to select ON. (MANUAL REC only). (See page 10.)



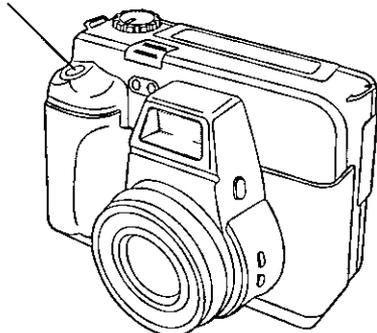
- 2 Press **ZOOM T** or **W** to zoom In and Out.
 - Zoom magnification level is up to 3X.
- 3 Press **SHTR** down halfway to lock Auto Focus.
 - Beep sounds twice. (See page 26.)
- 4 Press **SHTR** down the rest of the way to actually capture the image.
 - Shutter sounds once. (See page 26.)
 - While the Digital Camera processes the image, REC will flash on the LCD Viewfinder and the captured image will be displayed on the LCD Viewfinder for a few seconds. Images cannot be captured while REC flashes.

Note:

- The next image cannot be captured until the previously captured image is no longer displayed on the LCD Viewfinder.
- Power shuts off if there is no activity over 1 minute with Battery as a power source to conserve power. Press **SHTR** to turn power back on.
- Do not subject unit to a strong impact during record or playback. Unit may not function normally.
- Do not use in extreme heat (104° F and above). This may damage the disk. Also, in extremely hot places (104° F and above), remove the disk from the camera and store to avoid damaging disk.



3, 4 SHTR (SHUTTER)



Capturing Images

Capturing Images (AUDIO ON)

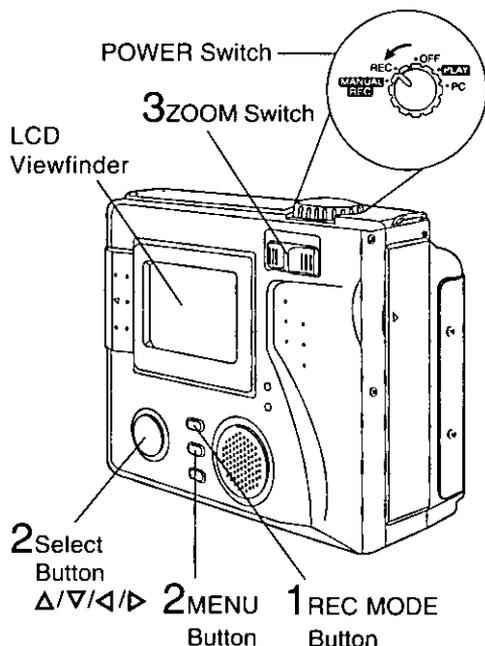
You can record audio with a still image. The still image and audio can then be played back in the PLAY mode. (See page 32.)

Note

- AUDIO is set to ON, the RAPIDFIRE™ is automatically disabled and can not be set to ON. (See page 27.)

Before you begin

Remove the Lens Cap. Set the POWER Switch to REC or MANUAL REC. (See pages 18, 19.)



- 1 Press **REC MODE** repeatedly to select recording mode (SF, F, N, ZOOM (2X, 3X)). (See page 25.)
 - If you select and TIFF mode, you can not record audio.

- 2 Press **MENU** to select **AUDIO**, and then press **◀** or **▶** to select **AUDIO ON**.

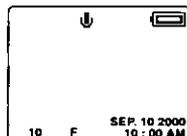
[REC mode]

[MANUAL REC mode]

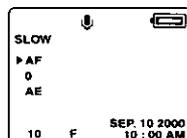
<REC MENU 1/2>	
AUDIO	◀ ON ▶
SELF TIMER	OFF
BRIGHTNESS	ON
OSD	ON
RAPID	OFF
SEL : ▲▼	SET : ◀▶
EXIT : MENU	

<MANUAL REC MENU 1/3>	
AUDIO	◀ ON ▶
SELF TIMER	OFF
BRIGHTNESS	ON
OSD	ON
RAPID	OFF
SEL : ▲▼	SET : ◀▶
EXIT : MENU	

- Press **MENU** to exit.
- When **AUDIO** is ON, the is displayed on the screen.

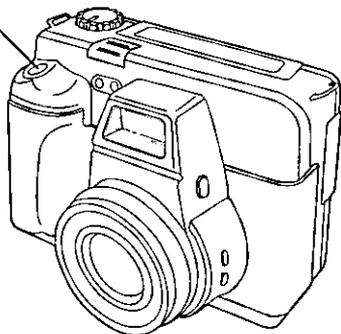


- If you want to use **SLOW SHUTTER**: Press **MENU** to display the **MENU** screen, and then press **▲** or **▼** to select **SLOW SHUTTER**. Press **◀** or **▶** to select **ON** (MANUAL REC only). (See page 10.)



- 3 Press **ZOOM T** or **W** to zoom In and Out.
 - Zoom magnification level is up to 3X.

4, 5 SHTR (SHUTTER)



- 4** Press SHTR down halfway to lock Auto Focus.
- Beep sounds twice. (See page 26.)

- 5** Press SHTR down the rest of the way to actually capture the image.
- Shutter sounds once. (See page 26.)
 - You can record audio for 5 seconds by pressing the SHTR button.



- While the Digital Camera processes the image, REC will flash on the LCD Viewfinder and the captured image will be displayed on the LCD Viewfinder for a few seconds. Images cannot be captured while REC flashes.

Note

- The next image cannot be captured until the previously captured image is no longer displayed on the LCD Viewfinder.
- Power shuts off if there is no activity over 1 minute with Battery as a power source to conserve power. Press SHTR to turn power back on.
- Do not subject unit to a strong impact during record or playback. Unit may not function normally.
- Do not use in extreme heat (104° F and above). This may damage the disk. Also, in extremely hot places (104° F and above), remove the disk from the camera and store to avoid damaging disk.

Capturing Images

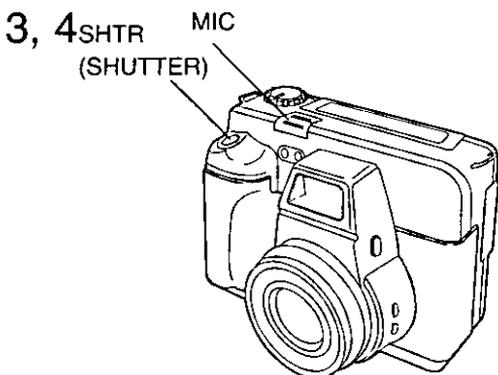
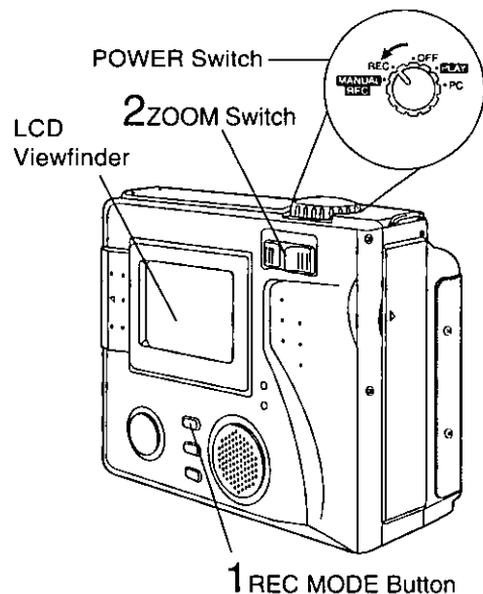
Motion Image Rec Mode, Burst Rec Mode

You can select  Motion Image capture or  Burst Image capture as the REC MODE.

Before you begin

Remove the Lens Cap. Set the POWER to REC or MANUAL REC.

(See pages 18, 19.)



- 1 Press **REC MODE** repeatedly to select Motion () or Burst () recording mode.
- 2 Press **ZOOM T** or **W** to zoom In and Out.
 - Zoom magnification level is up to 3X.
- 3 Press **SHTR** down halfway to lock Auto Focus.
 - Beep sounds twice. (See page 26.)
- 4 Hold down the **SHTR** button the rest of the way to actually capture the image. If you select **AUDIO ON**, audio will be recorded through the MIC. (See page 22.)



REC MODE

- A Motion Image with audio can be captured for up to 12 seconds.

REC MODE

- A burst of up to 5 images with no audio (one frame every 0.9 seconds) can be captured while SHTR is pressed.
- While the Digital Camera processes the image, REC will flash on the LCD Viewfinder and the captured image will be displayed on the LCD Viewfinder for a few seconds.

Note

- If you select , you can not record audio.
- The next image cannot be captured until the previously captured image is no longer displayed on the LCD Viewfinder.
- Power shuts off if there is no activity over 1 minute with Battery as a power source to conserve power. Press SHTR to turn power back on.

Recording Mode

SF : Super Fine Mode (with audio)
(Low compression)
Select for higher quality resolution with lowest compression (e.g., for printing)

F : Fine Mode (with audio)
(High compression)
Select for high resolution (e.g., for printing or archiving an image).

N : Normal Mode (with audio)
Select for lower resolution (e.g., for e-mail or posting on the Internet).

ZOOM : Zoom Mode (with audio)
Use to magnify image to twice its normal size.
Image size at 2X Zoom is 1 024 x 768 and 3X Zoom is 640 x 480.

 **: Motion Image Rec Mode (with audio)**
Create a short motion picture (one frame captured every 0.1 second):
SuperDisk : for 12 seconds
Floppy Disk : for 10 seconds
• REC will flash on the LCD.
Viewfinder while processing a motion image.

 **: Burst Rec Mode**
Capture burst of up to 5 images (one image every 0.9 second) while SHTR is held down.
• If the number of remaining pages is less than 5, only the number of images equal to the remaining memory will be captured.

TIFF* : Tagged Image File Format (SuperDisk Diskette only)
(No compression)
Select for highest quality resolution with no compression.

Image Resolution and Capacity (SuperDisk Diskette)

REC Mode	Image Resolution	Capacity (w/supplied SuperDisk)
SF	2 048 × 1 536	Approx. 240 images
F	2 048 × 1 536	Approx. 340 images
N	1 024 × 768	Approx. 1 000 images
ZOOM 2X	1 024 × 768	Approx. 1 000 images
ZOOM 3X	640 × 480	Approx. 1 500 images
	320 × 240	12 seconds × Approx. 70 sets
	1 024 × 768	Approx. 1 400 images
TIFF*	2 048 × 1 536	Approx. 12 images

Image Resolution and Capacity (Floppy Disk)

REC Mode	Image Resolution	Capacity (w/FloppyDisk)
SF	2 048 × 1 536	Approx. 2 images
F	2 048 × 1 536	Approx. 4 images
N	1 024 × 768	Approx. 12 images
ZOOM 2X	1 024 × 768	Approx. 12 images
ZOOM 3X	640 × 480	Approx. 17 images
	320 × 240	10 seconds × 1 set
	1 024 × 768	Approx. 15 images

- The number of images given for each mode applies when all images are taken in same mode.
- You can change recording modes at any time before capturing an image.
- The number of images that can be captured may differ depending on the subject. After capturing an image, the number may not decrease, or it may decrease by two. This is normal.

*TIFF (RGB)

- TIFF (RGB) images may not be viewable on all computers.
- It takes approx. 2~3 minutes to save image data to the SuperDisk.

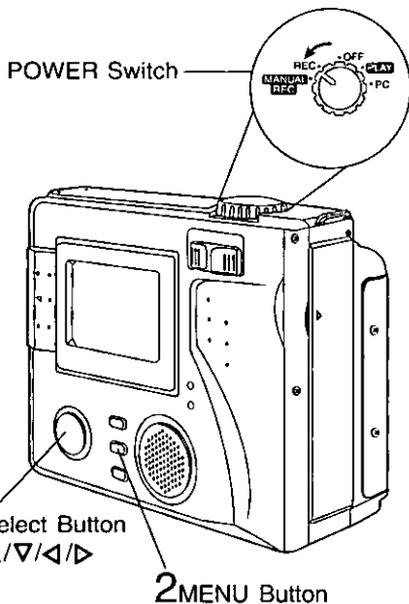
Capturing Images

Beep

Set Digital Camera to beep (low or high volume), when an image is captured, or set to OFF.

Before you begin

Set the **POWER Switch** to **REC**, **MANUAL REC** or **PLAY**. (See pages 18, 19.)
Press **MENU** to display the **MENU** screen.

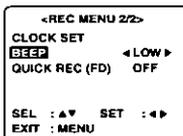


Note

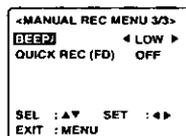
- You can select BEEP mode in the REC, MANUAL REC and PLAY mode.
- To change settings, repeat these steps.

- 1 Press **Δ** or **▽** to select **BEEP** and press **◀** or **▶** to select one of the three settings shown below.

[REC mode]



[MANUAL REC mode]



[PLAY mode]



- OFF** : Select to turn OFF the beep sound.
LOW : Select to hear a low beep sound.
HIGH : Select to hear a loud beep sound.

- 2 Press **MENU** to exit.

Digital Camera will beep:

- When BEEP is set to LOW or HIGH, camera will beep as follows.
Once when you press REC MODE, MENU, MANUAL, MANUAL SELECT or FLASH Buttons.
Once when an item is selected in Menu.
- Twice when you press SHTR half way to adjust focus.

RapidFire™ Picture Taking

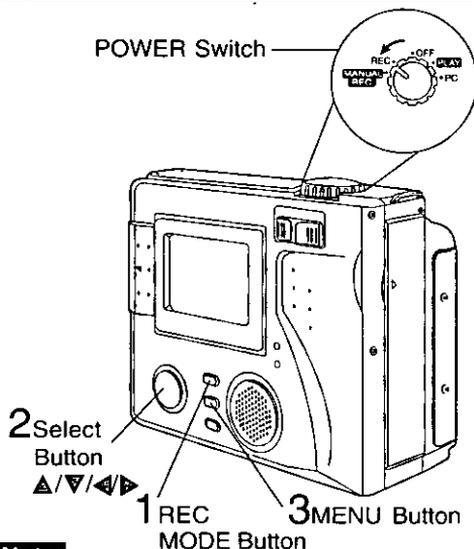
With this feature, captured images are first stored in Camera memory. This speeds up the processing time and allows you to capture the next image right away.

Note

- AUDIO, SELF TIMER and TIME LAPSE functions are automatically disabled when RAPIDFIRE™ is set to ON.

Before you begin

Set the POWER Switch to REC or MANUAL REC. (See pages 18, 19.)

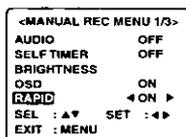
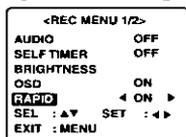


Note

- The Disk Media cannot be ejected until after the memory data has been written. Press ► (+) button to write the memory data to the Disk Media, then eject the Disk Media.
- Camera memory capacity is: 3 frames in SF mode, 4 frames in FINE mode, and 12 frames in NORMAL mode. While the Digital Camera processes the images "REC" will flash on the LCD Viewfinder, no further images can be captured while REC is flashing.
- If there are images left in Camera memory when the power is turned off, the images are saved to the Disk Media and then power goes off.
- To save images in Camera memory to the Disk Media at any time, press the ► (+) button.
- Images stored in Camera memory cannot be deleted. Save the images to the Disk Media, then refer to page 41 (To Delete Specific Images).

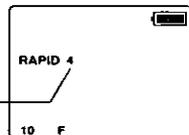
- 1 Press REC MODE repeatedly to select recording mode (SF, F, N). (See page 25.)
 - If the REC mode is set to ZOOM (2X, 3X), or TIFF mode, change REC mode. (See page 25.)
- 2 Press MENU to display the MENU screen. Press ▲ or ▼ to select RAPID in the MENU screen, and press ◀ or ▶ to select ON.

[REC mode] [MANUAL REC mode]

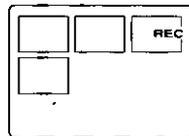


- 3 Press MENU to exit.
 - If you select ON, "RAPID" is displayed on the screen.
 - RapidFire™ Page Remaining is displayed on the screen.

RapidFire™
Page Remain



- 4 Press SHTR to capture the image.
 - When page remaining becomes zero, or when you change modes (e.g. REC-->MANUAL REC), images are automatically saved to the Disk Media.



Caution

- If the Battery becomes depleted with image data not saved to the Disk Media, the image data will be lost. Always confirm the Battery condition before capturing images.

Capturing Images

Quick Rec (FD)

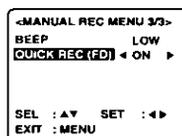
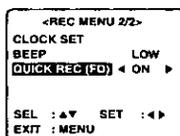
This function works only for Floppy Disk. This feature allows quick recording on a floppy disk which is readable on this unit, however it may not be readable on another floppy drive.

Before you begin

Set the **POWER Switch** to **REC** or **MANUAL REC.** (See pages 18, 19.) Press **MENU** to display the MENU screen.

- 1 Press Δ or ∇ to select **QUICK REC (FD)** in the MENU screen and press \triangleleft or \triangleright to select **ON**.

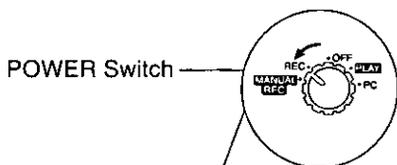
[REC mode] [MANUAL REC mode]



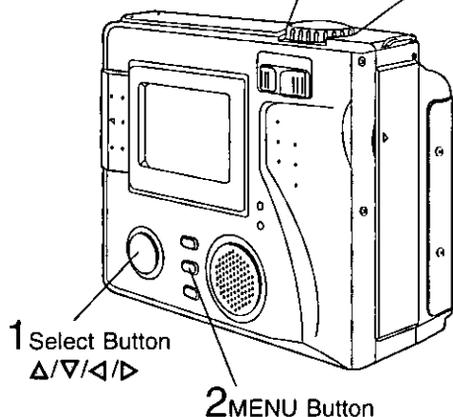
- 2 Press **MENU** to exit.

Note

- If a floppy disk recorded with **QUICK REC (FD) "ON"** is used on another floppy drive, normal operation may fail. In this case, record again with **QUICK REC (FD) "OFF"** or copy the recording.
- REC flashes on the LCD Viewfinder while the Digital Camera is processing images. Images cannot be captured while REC flashes.



POWER Switch



Rec Review

When in REC or MANUAL REC mode, you can confirm the last captured image by holding the \triangleleft (-) button down. However, if the camera is turned off or if the disk was removed, this feature will not work.

- If Rapid Fire is set to "ON", this feature cannot be used.

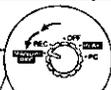
Manual Mode

With this feature you can select the desired settings for various recording modes.

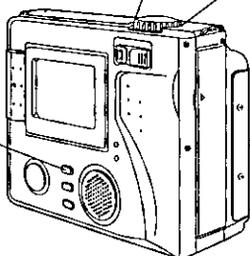
Before you begin

Set the **POWER Switch** to **MANUAL REC.** (See page 19.)

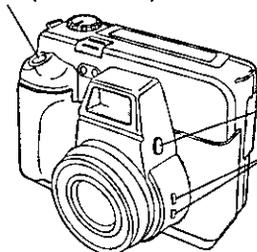
POWER Switch



1 REC MODE Button



4 SHTR (SHUTTER)



2 MANUAL Button
3 MANUAL Select Button

Macro (50 cm [19-11/16 inch] ~ 6 cm [2-6/16 inch])

AF (infinity - 30 cm [11-13/16 inch])

Zone AF (2.0 m [78-3/4 inch] ~ 1.0 m [39-3/8 inch])

Zone AF (3.5 m [137-13/16 inch] ~ 2.5 m [98-7/16 inch])

Zone AF (Near infinity)

Focus

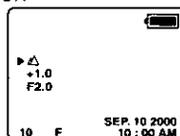
1 Press **REC MODE** repeatedly to select recording mode (SF, F, N, ZOOM (2X, 3X), , , TIFF). (See page 25.)

2 Press **MANUAL** to enter Manual mode.

- The current settings appear on the left side of the screen.
- Each additional press of **MANUAL** selects "Focus", "Exposure", and "Program AE" mode. ▶ mark shows selection.

3 Press **MANUAL Select** Δ or ∇ to select the desired setting in the current mode.

- Please refer to the chart below.
- The current setting is displayed on the LCD Viewfinder.



4 Press **SHTR** to capture the images.

IRIS + 1.5 EV

IRIS + 1.0 EV

IRIS + 0.5 EV

IRIS \pm 0 EV

IRIS - 0.5 EV

IRIS - 1.0 EV

IRIS - 1.5 EV

Iris priority (F8.0)

Iris priority (F2.0)

Program AE

Shutter priority (1/125)

Shutter priority (1/500)

Exposure

Program AE

→ Press **MANUAL Button**

↑
↓ Press **MANUAL Select Button**

(Continued on next page.)

Capturing Images

[Recording Modes]

Mode	Display	Explanation
FOCUS	AF	Use AUTO FOCUS for normal recording. Focus is adjusted automatically from 30 cm ~ ∞.
		Focus will be fixed between approx. 1.0 m~2.0 m.
		Focus will be fixed between approx. 2.5 m~3.5 m.
		Focus will be fixed at infinity (for distant objects).
		Macro mode is entered. Focus is adjusted within a 6.5 cm ~ 50 cm range.
EXPOSURE	0 EV	0 EV is the standard (center) value.
	+1.5~-1.5EV	You can select one of 7 exposure levels (+1.5 ~ -1.5 EV).
PROGRAM AE	AE	Program AE (auto exposure) mode. Use for normal recording.
	F8.0	Fixed at F8.0 in the Preferred Iris mode.
	F2.0	Fixed at F2.0 in the Preferred Iris mode.
	1/125	Fixed at 1/125 seconds in the Preferred Shutter Speed mode.
	1/500	Fixed at 1/500 seconds in the Preferred Shutter Speed mode.

Note

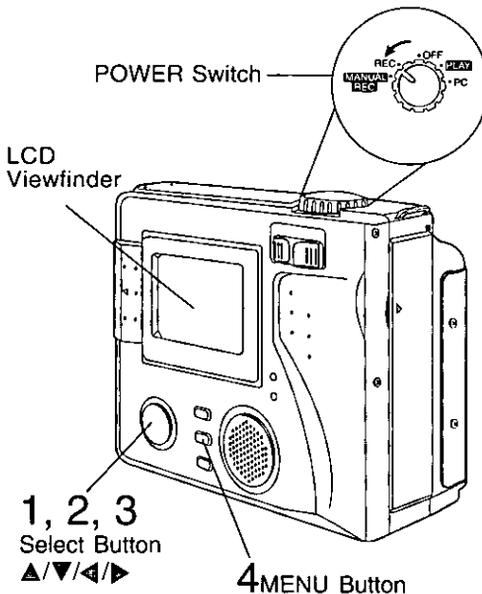
- All set items return to factory settings when power is turned off. However, settings are maintained if auto power shut off occurs after one minute with no activity, or if camera is put back in MANUAL REC mode after being in AUTO REC, PLAY, or PC mode.
- Selectable Exposure values and program Auto Exposure (AE) settings are included to enhance creative photography and improve picture quality of specific subject matter. Please feel free to experiment with the different available settings.
- When Preferred Shutter Speed mode is selected, Slow Shutter cannot be used.
- While the menu is displayed, Lens Mode operation is not available. In this case, exit the menu screen before pressing MANUAL button.
- When FOCUS is set to Macro mode, zoom reverts to wide end and PROGRAM AE is fixed to AE.

Adjusting LCD Viewfinder Brightness

You may want to brighten or darken the LCD (Liquid Crystal Display) Viewfinder for easier viewing. This adjustment will not affect the captured image brightness.

Before you begin

Set **POWER Switch** to **REC**, **MANUAL REC**, or **PLAY**. (See pages 18, 19.) Press **MENU** to display the **MENU** screen.



- 1 Press **▲** or **▼** to select **BRIGHTNESS** in the **MENU** screen.

[REC mode]

```
<REC MENU 1/2>
AUDIO          OFF
SELF TIMER    OFF
BRIGHTNESS    ▶
OSD           ON
RAPID         OFF
SEL : ▲▼     SET : ◀▶
EXIT : MENU
```

[MANUAL REC mode]

```
<MANUAL REC MENU 1/3>
AUDIO          OFF
SELF TIMER    OFF
BRIGHTNESS    ▶
OSD           ON
RAPID         OFF
SEL : ▲▼     SET : ◀▶
EXIT : MENU
```

[PLAY mode]

```
<PLAY MENU 2/2>
OSD           ON
BRIGHTNESS    ▶
BEEP         LOW
CLOCK SET
SEL : ▲▼     SET : ◀▶
EXIT : MENU
```

- 2 Press **▶** to display **LCD BRIGHTNESS** screen.

```
<LCD BRIGHTNESS>
- □□□□□□□+
SET : ◀▶
EXIT : MENU
```

- 3 Press **◀ (-)** or **▶ (+)** to change the brightness of the LCD Viewfinder; (+) for brighter, (-) for darker.

- 4 Press **MENU** twice to exit.

Note

- The original **BRIGHTNESS** will be restored when the Digital Camera is turned off.
- The brightness level set in this menu is not related to the brightness of the captured image.

Playing Back Captured Images

Manual Playback

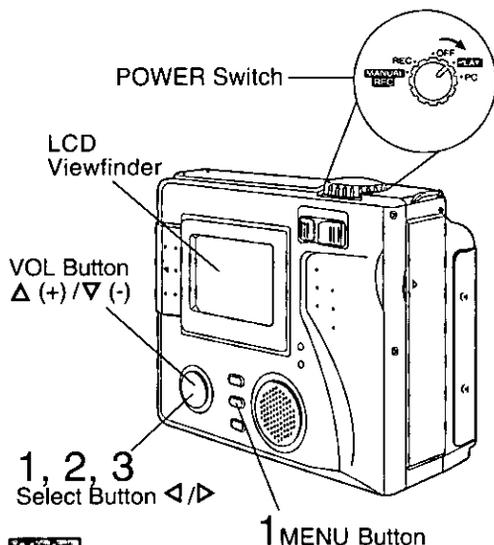
You can playback recorded images on the LCD Viewfinder.

- For images recorded with audio, a  mark is displayed on the screen and audio is played back when SHTR is pressed.

Before you begin

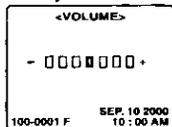
Set the **POWER Switch** to **PLAY**.

(See page 19.)



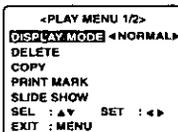
Note

- A still image with audio will be played. The audio volume can be adjusted by pressing VOL $\Delta (+)/\nabla (-)$.



- Do not subject unit to a strong impact during record or playback. Unit may not function normally.
- Do not use in extreme heat (104° F and above). This may damage the disk. Also, in extremely hot places (104° F and above), remove the disk from the camera and store to avoid damaging disk.
- Power shuts off if there is no activity over 2 minutes with Battery as a power source to conserve power. Press SHTR to turn POWER back.

- 1 Press **MENU** to display **PLAY MENU** and press **\triangleright** to set **DISPLAY MODE** to **NORMAL**.

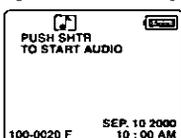


- Press **MENU** to exit.

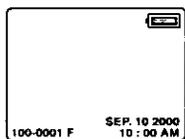
- 2 Press **$\triangleright (+)$** or **$\triangleleft (-)$** repeatedly, [**$\triangleright (+)$** for ascending order, and **$\triangleleft (-)$** for descending order] to change the displayed image on the LCD Viewfinder.

- The image page number and recording mode are displayed at the bottom of the screen.

[With AUDIO]



[Without AUDIO]



- If there are no images in memory, a blue back screen will be displayed.
- The image with audio is played back when **SHTR** is pressed.

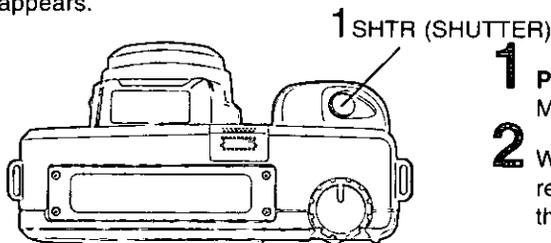
- 3 Hold down **$\triangleright (+)$** or **$\triangleleft (-)$** , [**$\triangleright (+)$** for ascending order, and **$\triangleleft (-)$** for descending order] to quickly advance the images on the LCD Viewfinder.

- Page number is changed continuously while **$\triangleright (+)$** or **$\triangleleft (-)$** is held down.
- Selected page is displayed when button is released.

Playing Back Captured Images

Motion Image Playback

When an image captured in  Motion Image Rec mode (see page 25) is displayed, a message like the one at right appears.



- To adjust volume, press VOL ▲ (+)/▼ (-).



- 1 Press SHTR to start playback of Motion image.
- 2 While Motion Image data is being read, "NOW LOADING" is displayed on the LCD.



Multi Playback

If you select  in the PLAY MENU, you will be able to see Thumbnail images on the LCD Viewfinder (each Thumbnail page will contain 9 images).

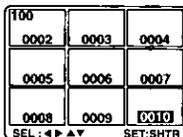
Before you begin

Set the POWER Switch to PLAY.
(See page 19.) Press MENU to display the MENU screen.

- 1 Press ▲ or ▼ to select DISPLAY MODE in the MENU screen. And, press ◀ or ▶ to select .

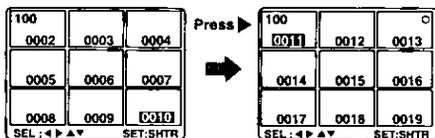


- 2 Press MENU. A Multi Image Playback screen will appear.

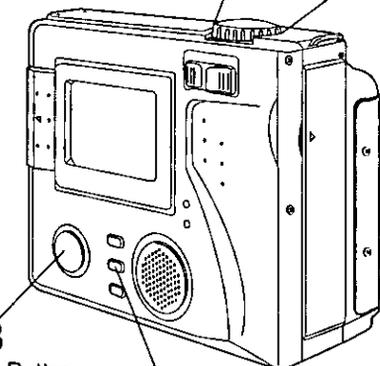
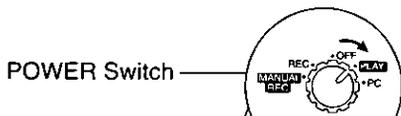


- When many images are stored in the Disk Media, it may take a while for the Multi Image screen to playback.

- 3 Press ▶ (+) repeatedly to scroll forward through Multi Image pages (each page contains 9 images).
 - All images will be displayed as still images.



(Continued on next page)

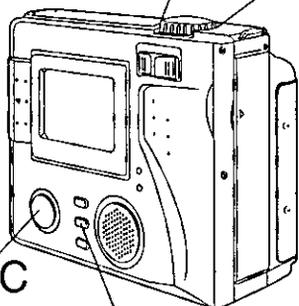
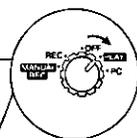


1, 3
Select Button
▲/▼/◀/▶

2 MENU Button

Playing Back Captured Images

POWER Switch

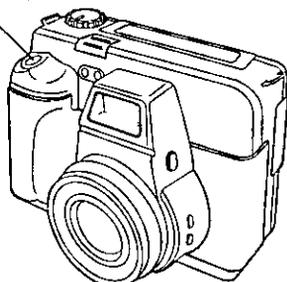


4, 5, A, C

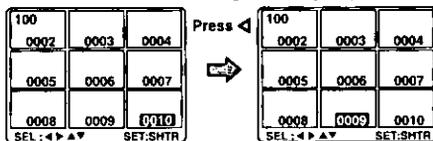
Select Button
 $\Delta/\nabla/\leftarrow/\rightarrow$

A, B, E MENU Button

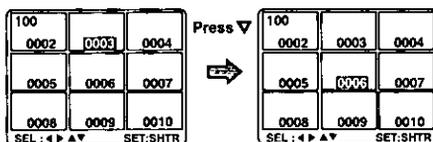
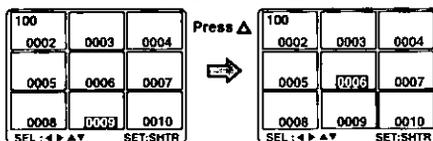
6, D SHTR (SHUTTER)



4 Press \leftarrow (-) to move back through the images on the page until the number of the desired image is highlighted.



5 Press Δ or ∇ to go directly to the next or previous page of images.



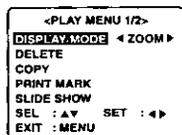
6 Press SHTR to playback the selected image, and to return to Manual Playback.

Zoom Playback

Before you begin

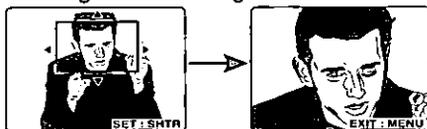
Set the POWER Switch to PLAY.
 (See page 19.)

A Press MENU to display PLAY MENU and press \leftarrow or \rightarrow to select ZOOM.



B Press MENU to set display mode to ZOOM.

C Press \rightarrow , \leftarrow , Δ , or ∇ repeatedly to change the zooming area.



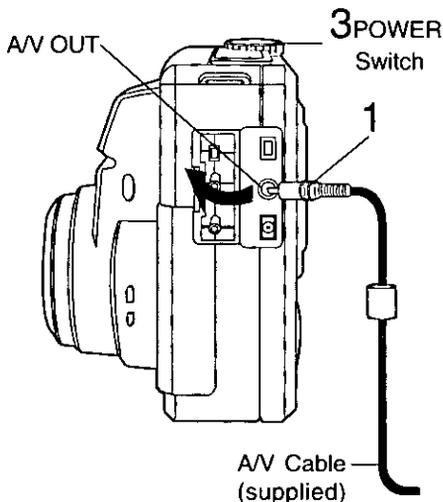
D Press SHTR to zoom in on the selected area.

E Press MENU to restore the image to its normal size.

Note

- The zoom area cannot be selected for (Motion Image Rec) (QVGA).

Viewing Images on a TV Screen and Transferring Images to a VCR

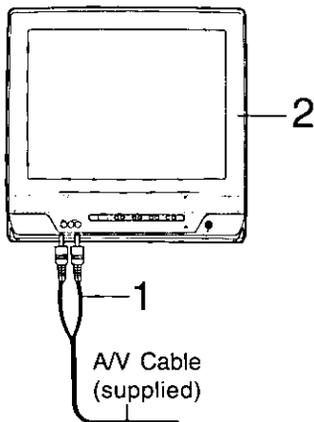


- 1** Connect the Digital Camera to your TV or VCR using the A/V Cable (supplied) as shown.
- 2** Turn on your TV and select its video input mode. If using a VCR, set it to LINE input. (See TV/VCR manual.)
- 3** Set the Digital Camera POWER to PLAY. To view playback on a TV Monitor, perform playback as described on pages 32-34.
 - The POWER LED lamp lights up.
- 4** If using a VCR, you can record the desired images. (See VCR manual.)

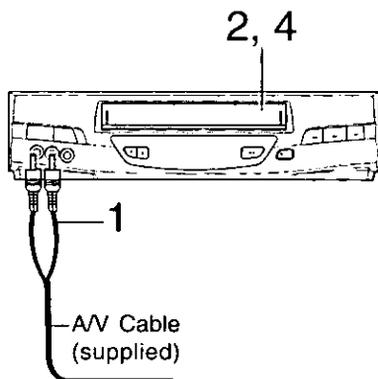
Note

- For extended periods of use, it is recommended to use the AC Adaptor (supplied) as a power source.
- On screen displays will appear in black and white on the TV monitor.
- You can view REC or MANUAL REC mode, however picture quality is best in PLAY mode.

TV Monitor



VCR



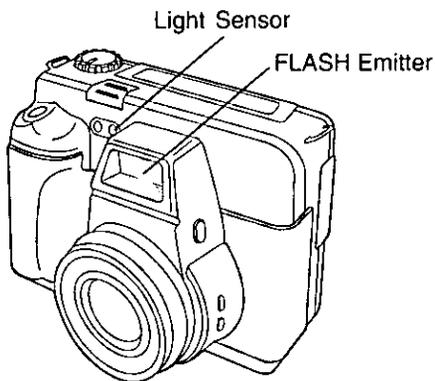
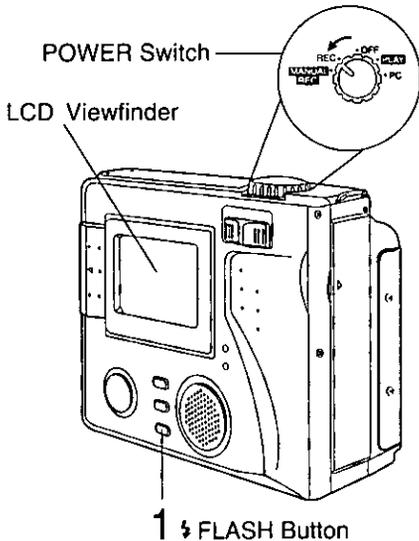
Connect the A/V OUT Terminal on the Camera and the AUDIO IN/VIDEO IN on the VCR or TV using the A/V Cable (supplied).

Using the Built-in Flash

This camera features a Built-in Flash which can be used to capture images in dimly lit conditions.

Before you begin

Set the **POWER Switch** to **REC** or **MANUAL REC.** (See pages 18, 19.)



- 1 Press **⚡ (FLASH)** repeatedly to select flash mode.
The mode that is selected will be displayed on the LCD Viewfinder.

AUTO (No indication):

The flash automatically lights depending on lighting conditions.

- ⚡** : The flash will light whenever you capture an image (flash twice).
- 👁** : This setting reduces the red reflections in the eye when the flash lights. The flash will light three times, once before capturing and then twice during capturing. (The flash will light whenever you capture an image.)
- ⊕** : The flash will not light even when you capture an image. (MANUAL REC mode only.)

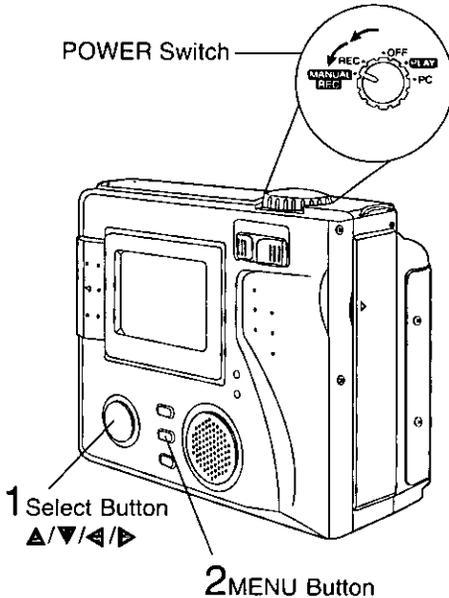
Note

- The effective range of the flash is roughly 7.8 inches (20 cm) to 9.8 feet (3 m). If you are using the flash in very bright areas, the image background may become dark.
- Do not use the flash close to a person's face as it may be harmful to the eyes. Especially when capturing images of infants or small children, keep at least 3.3 feet (1 m) away.
- When the recording mode is set to **📹 (Motion Image Rec)** or **📷 (Burst Rec)**, the flash mode will go to **⊕ (OFF)**.
- Do not cover the FLASH Emitter and Light Sensor with your finger or other object.

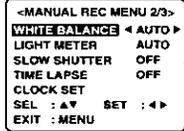
During normal use, Auto White Balance automatically maintains optimum color balance. If this is not the case, set manually.

Before you begin

Set the **POWER Switch** to **MANUAL REC.** (See page 19.) Press **MENU** to display the MENU screen.



- 1 Press **▲** or **▼** to select **WHITE BALANCE** and press **◀** or **▶** to select one of the four settings shown below.
 - Default setting is **AUTO**.



AUTO (No indication) :

Automatically maintains optimum color balance in most lighting conditions.



: When the source illumination is a halogen lamp.



: When shooting outdoors on a sunny day.

WS (SET) : Manually sets the color balance to a fixed position based on the current lighting environment.

- Aim the camera at white object (important: white object must fill entire LCD viewfinder).
- Press **SHTR** button.

PUSH SHTR TO
WHITE SET
PUSH MENU TO EXIT

- 2 Press **MENU** to exit.

- Selected mode will appear on the LCD Viewfinder. (See page 9.)

Note

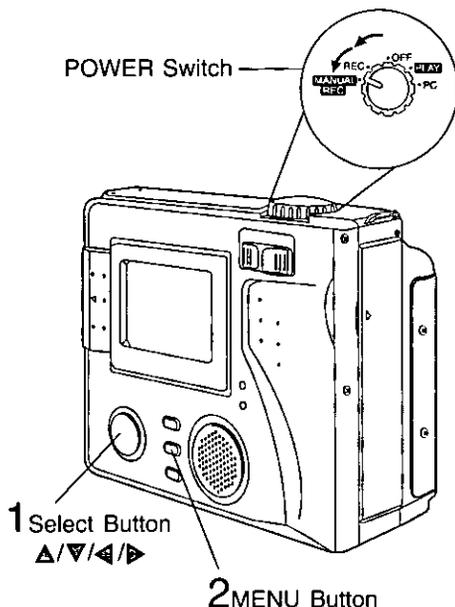
- When the Camera is set to **POWER OFF**, the white balance setting will be stored in Camera memory. When the Camera is set to **POWER ON**, the white balance setting will default to the previous setting.

Light Metering

According to the recording condition and purpose, set light metering to measure exposure time.

Before you begin

Set the **POWER Switch** to **MANUAL REC.** (See page 19.) Press **MENU** to display the **MENU** screen.



- 1 Press **▲** or **▼** to select **LIGHT METER** and press **◀** or **▶** to select one of the two settings shown below.
 - Default setting is **AUTO**.

```
<MANUAL REC MENU 2/3>
WHITE BALANCE  AUTO
LIGHT METER  ◀ AUTO ▶
SLOW SHUTTER  OFF
TIME LAPSE    OFF
CLOCK SET
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

AUTO (No indication) :

Ideal for normal capturing, the focus is set to the center portion of the finder and the entire image is metered.

- ◻ : A small sphere in the center portion of the finder is metered. This mode is useful for capturing back lit conditions, such as when the subject is brightly lit.

2 Press **MENU** to exit.

- Selected mode will appear on the **LCD Viewfinder**. (See page 9.)

Self Timer Recording

The Self-Timer allows you to capture an image about 10 seconds after pressing the shutter.

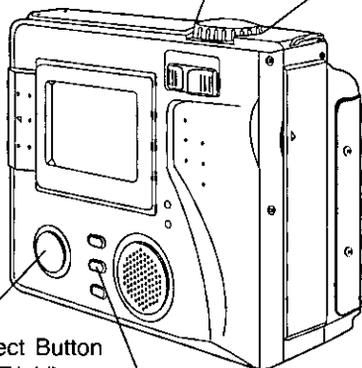
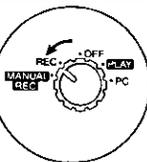
Note

- SELF TIMER is set to ON, the RAPIDFIRE™ and TIME LAPSE functions are automatically disabled and can not be set to ON.

Before you begin

Set the POWER Switch to REC or MANUAL REC. (See pages 18, 19.)
Press MENU to display the MENU screen.

POWER Switch



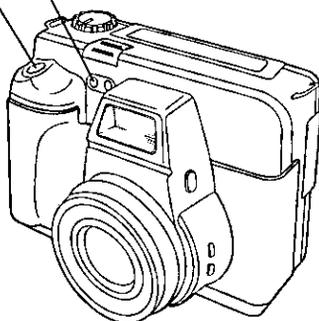
1 Select Button
▲/▼/◀/▶

2 MENU Button

3 SHTR

(SHUTTER)

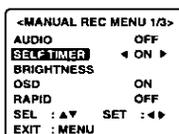
Self-Timer Indicator



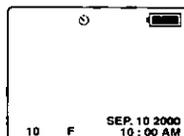
1 Press ▲ or ▼ to select SELF TIMER and press ◀ or ▶ to select ON.

This puts the camera in self-timer mode.

[REC Mode] [MANUAL REC Mode]



- After ON is selected and MENU is pressed, Ⓢ mark will appear on the LCD Viewfinder (see page 9).



2 Press MENU to exit.

3 Press SHTR.

- The Self-Timer Indicator lights up. The indicator starts flashing rapidly after about 8 seconds and the image is captured about 2 seconds later.
- The Self-Timer setting returns to OFF mode each time an image is captured. Repeat these steps each time Self-Timer is used.

Special Features

Time Lapse Recording

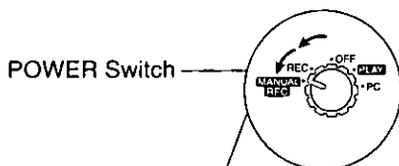
Time Lapse enables you to set the camera to automatically capture an image from once every minute to once every 24 hours.

Note:

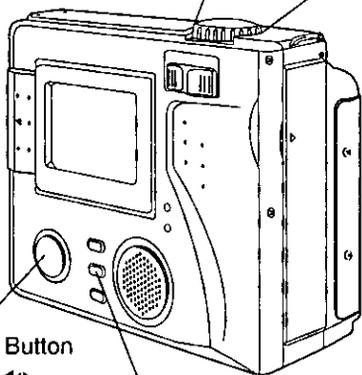
- TIME LAPSE is set to ON, the RAPIDFIRE™ and SELF TIMER functions are automatically disabled and can not be set to ON.

Before you begin

Set the POWER Switch to MANUAL REC. (See page 19.) Press MENU to display the MENU screen.



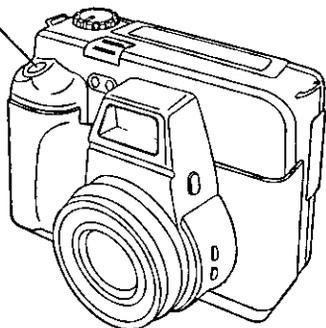
POWER Switch



1 Select Button
▲/▼/◀/▶

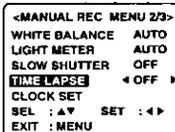
2 MENU Button

3 SHTR (SHUTTER)



1 Press ▲ or ▼ to select TIME LAPSE and press ◀ or ▶ to select time interval.

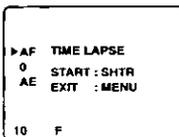
You can select a capture rate of approx. 1MIN, 5MIN, 10MIN, 30MIN, 1HOUR, 6HOUR, 12HOUR, or 24HOUR.



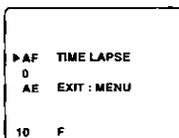
• Time Lapse feature is available with Super Fine (SF), Fine (F), Normal (N) and Zoom (2X, 3X) mode.

If the REC mode is set to or TIFF mode, change REC mode. (See page 25.)

2 Press MENU to set time lapse mode.



3 Press SHTR to start time lapse mode recording.



- REC will flash on the LCD Viewfinder while image is being processed.
- Press MENU to exit this mode.

Note:

- During time lapse recording (even during non-recording intervals), the battery may become depleted. Therefore, using an AC Adaptor (supplied) is recommended.
- During time lapse, the ZOOM area is not displayed.

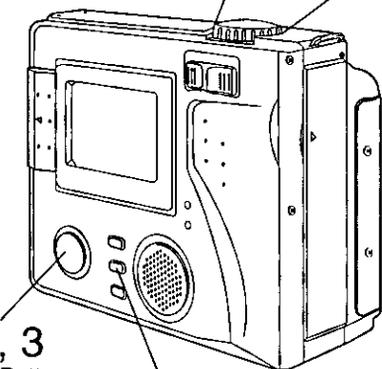
To Delete Specific Images

You can delete unwanted images and increase the remaining image memory.

Warning: Once deleted, images cannot be restored.

Before you begin

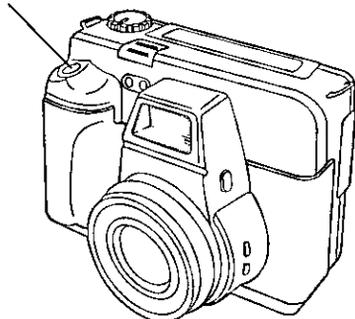
Set the **POWER Switch** to **PLAY**.
(See page 19.) Press **MENU** to display the **MENU** screen.



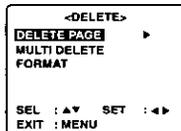
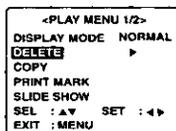
1, 2, 3
Select Button
▲/▼/◀/▶

4 MENU Button

4 SHTR (SHUTTER)



1 Press ▲ or ▼ to select **DELETE** and press ▶ to display **DELETE** menu.



2 Press ▶ to display **DELETE PAGE** menu.



3 Press ◀ or ▶ to select the image page to be deleted.

4 Press **SHTR** to delete an image.

- To delete other specific image pages, repeat steps 3~4.
- Press **MENU** three times to exit.

Note

- To delete all image data, refer to "Formatting the Disk Media" on page 43.

Important:

- While deleting images, **do not turn off the Digital Camera or unplug the AC Adaptor** (supplied) because this will cause irreversible damage to the memory, resulting in reduced image storage capacity.

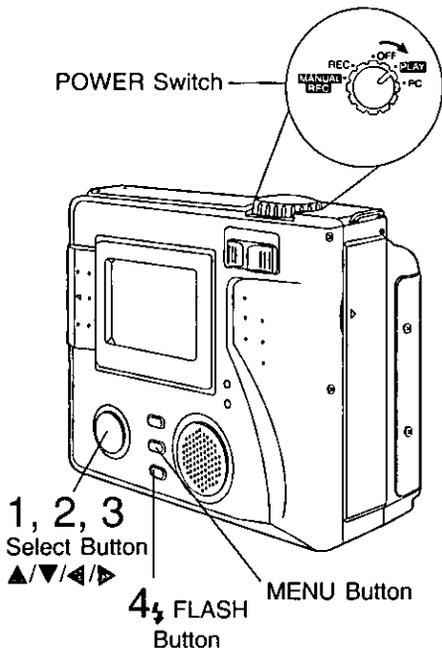
Multi Delete

You can delete selected images on the Multi playback screen from memory easily with this operation.

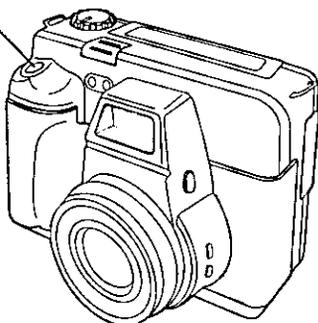
Warning: Once deleted, images cannot be restored.

Before you begin

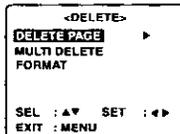
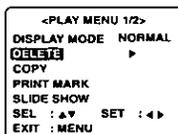
Set the **POWER Switch** to **PLAY**. (See page 19.) Press **MENU** to display the **MENU** screen.



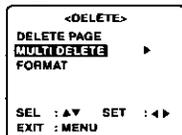
3 SHTR (SHUTTER)



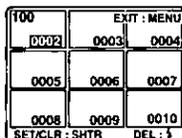
1 Press ▲ or ▼ to select **DELETE** and press ▶ to display **DELETE** menu.



2 Press ▲ or ▼ to select **MULTI DELETE** and press ▶ to display **MULTI DELETE** menu.

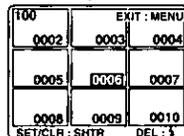


• The multi playback screen is displayed.



3 Press ▶, ◀, ▲, or ▼ to select the images you want to delete (up to 100 images), then press **SHTR** to set the selection.

- The file number of the selected image is displayed in red.
- To cancel a selection, select the image and press **SHTR** again.



• Press **MENU** three times to exit this menu.

4 Press **FLASH** to delete the selected images.
• "DELETE COMPLETE" is displayed on the LCD Viewfinder.

Important:

- While "PLEASE WAIT" is displayed, do not turn off the Digital Camera or unplug the AC Adaptor (supplied) because this will cause irreversible damage to the memory, resulting in reduced image storage capacity.

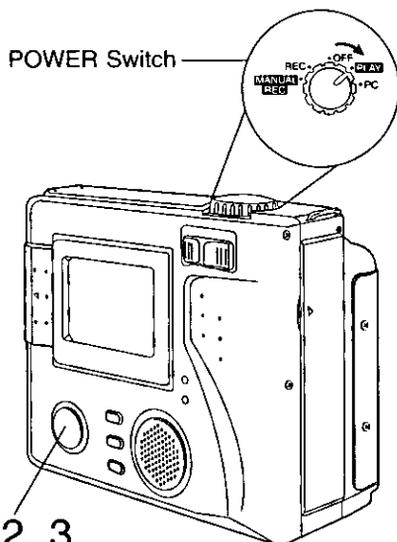
Formatting the Disk Media

You can easily format your Disk Media using this operation. Quick formatting will be done.

Warning: Formatting permanently removes all image data as well as any other files on the Disk.

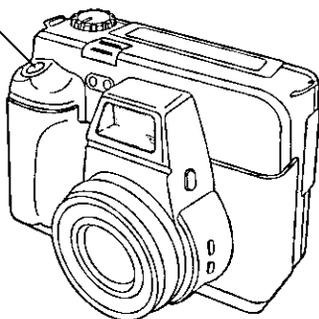
Before you begin

Set the **POWER Switch** to **PLAY**. (See page 19.) Press **MENU** to display the **MENU** screen.



1, 2, 3
Select Button
▲/▼/▶

4 SHTR (SHUTTER)



- 1 Press ▲ or ▼ to select **DELETE** and press ▶ to display **DELETE** menu.

```
<PLAY MENU 1/2>
DISPLAY MODE  NORMAL
DELETE
COPY
PRINT MARK
SLIDE SHOW
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

```
<DELETE>
DELETE PAGE
MULTI DELETE
FORMAT
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

- 2 Press ▲ or ▼ to select **FORMAT** and press ▶ to display **FORMAT** menu.

```
<DELETE>
DELETE PAGE
MULTI DELETE
FORMAT
SEL : ▲▼ SET : ◀▶
EXIT : MENU
```

- 3 Press ▲ or ▼ to select **YES**.

```
<FORMAT>
DELETE ALL DATA
OK?
NO
YES
SEL : ▲▼
ENTER : SHTR
```

- To exit this menu, press ▲ or ▼ to select **NO** and press **SHTR**.

- 4 Press **SHTR** to format.

```
PLEASE WAIT
```

```
NO IMAGE
```

- "PLEASE WAIT" will be displayed on screen as all images are deleted from memory. Deletion is complete when "NO IMAGE" is displayed.

Important:

- While "PLEASE WAIT" is displayed, do not turn off the **Digital Camera** or unplug the **AC Adaptor** (supplied) because this will cause irreversible damage to the memory, resulting in reduced image storage capacity.
- When a Floppy Disk formatted with Macintosh is inserted, **DISK ERROR** is displayed and formatting cannot be done.

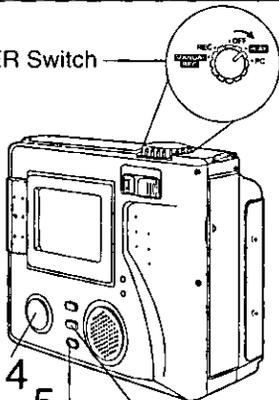
Multi Copy

You can copy specific images from one Disk Media to another Disk Media using this operation.

Before you begin

Set the **POWER Switch** to **PLAY**.
(See page 19.) Press **MENU** to display the **MENU** screen.

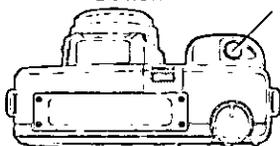
POWER Switch



1, 2, 3, 4
Select Button
Δ/▽/◀/▶

5
FLASH Button

4
SHTR
(SHUTTER)



Important:

- While "PLEASE WAIT" is displayed, **do not turn off the Digital Camera or unplug the AC Adaptor** (supplied) because this will cause irreversible damage to the memory, resulting in reduced image storage capacity.

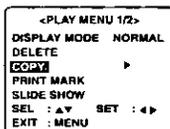
Note:

- If the memory capacity of the Disk Media that you want to copy to is not sufficient, the following message will appear.

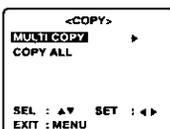


- You can copy images from a SuperDisk Diskette to another SuperDisk Diskette providing the **TARGET** disk has enough space. You can copy images from a Floppy Disk to another Floppy Disk or to a SuperDisk Diskette providing the **TARGET** disk has enough space.

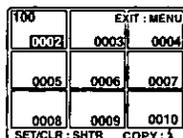
- 1 Press **Δ** or **▽** to select **COPY**.



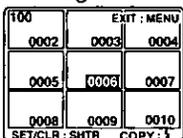
- 2 Press **▶** to display **COPY** menu and press **Δ** or **▽** to select **MULTI COPY**.



- 3 Press **▶** to display the multi playback screen.



- 4 Press **▶**, **◀**, **Δ**, or **▽** to select the image you want to copy, and then press **SHTR** to set the selection.
 - The file number of the selected image is displayed in green.
 - To cancel a selection, select the image and press **SHTR** again.



- Press **MENU** to exit this menu.

- 5 Press **⏏** (**FLASH**) to copy.
 - "PLEASE WAIT", then "PLEASE CHANGE DISK" is displayed. After Disk is changed, "PLEASE WAIT" is displayed as images are copied. When copying is complete, the screen below will be displayed.



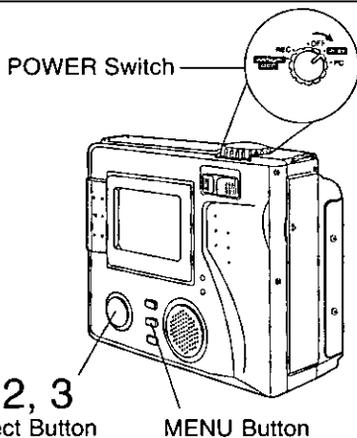
- Press **MENU** twice to exit.

To Copy All Images

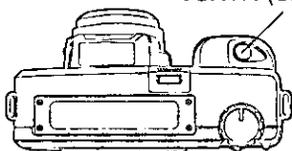
You can copy all of the images stored on a Disk Media to another Disk Media using this operation.

Before you begin

Set the **POWER Switch** to **PLAY**. (See page 19.) Press **MENU** to display the **MENU** screen.



4 SHTR (SHUTTER)



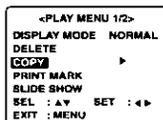
Note

- When copying images from one disk to another, the images are temporarily stored in camera memory before being copied to the target disk. As the camera memory is only equal to about one Floppy Disk, all the SuperDisk Diskette images cannot be stored and **COPY ALL** cannot be used. If **COPY ALL** is selected when SuperDisk is the source, "CANNOT COPY ALL THE SUPERDISK" will be displayed.
- If the memory capacity of the target SuperDisk Diskette or Floppy Disk is insufficient, the following message will appear.

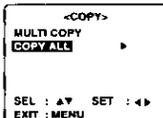


- You can copy images from a Floppy Disk to another Floppy Disk or a to SuperDisk Diskette providing the **TARGET** disk has enough space.

- 1 Press **▲** or **▼** to select **COPY**.



- 2 Press **▶** to display **COPY** menu and press **▲** or **▼** to select **COPY ALL**.



- 3 Press **▶** to display **COPY ALL** menu and press **▲** or **▼** to select **YES**.

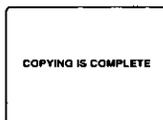


- Select **NO** to return to the **COPY** **MENU**.

- 4 Press **SHTR** to copy.



- "PLEASE WAIT", then "PLEASE CHANGE DISK" is displayed. After Disk is changed, "PLEASE WAIT" is displayed as all of the images are copied. When copying is complete, the screen below will be displayed.



- Press **MENU** twice to exit.

Important:

- While "PLEASE WAIT" is displayed, **do not turn off the Digital Camera or unplug the AC Adaptor** (supplied) because this will cause irreversible damage to the memory, resulting in reduced image storage capacity.

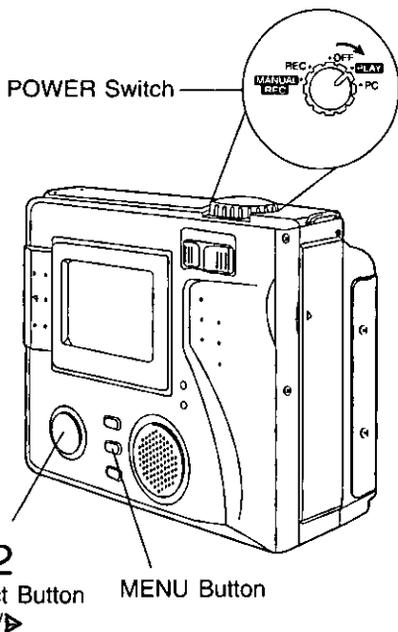
Slide Show

You can playback captured images as a slide show.

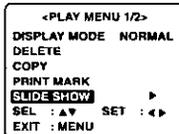
Before you begin

Set the **POWER Switch** to **PLAY**.

(See page 19.) Press **MENU** to display the **MENU** screen.



1 Press **Δ** or **▽** to select **SLIDE SHOW**.



2 Press **▶** to start slide show.



• Press **MENU** to exit this mode.



Note

- **SLIDE SHOW** automatically stops after approx. 20 minutes when SuperDisk is inserted.
- **SLIDE SHOW** continues endlessly when Floppy Disk is inserted. However, if Super Fine mode images are included, **SLIDE SHOW** may stop after approx. 20 minutes.

Important:

- While **SLIDE SHOW** is proceeding, **do not turn off the Digital Camera or unplug the AC Adaptor** (supplied) because this will cause irreversible damage to the memory, resulting in reduced image storage capacity.

Transferring Your Images (Windows)

System Requirements:

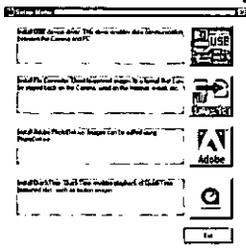
- IBM PC/AT or compatible
- Windows 98/2000 preinstalled PC with USB port
- 486 CPU or higher (Pentium recommended)
- 32 MB on-board memory
- 10 MB available hard disk space
- 256 Color Monitor or Full Color Monitor recommended (24 bits per pixel or 16.7 million colors)
- CD-ROM drive (for installation)
- USB Port
- Mouse or other pointing device

Driver & File Converter Installation

Note

- If Windows 2000 USB Device Driver is installed, please refer to page 48.

- 1 Turn on the PC (Personal Computer) and start up Windows 98.
- 2 Insert supplied Software CD-ROM into the CD-ROM Drive.
- 3 Select and click the icon you want to install.



- USB Device Driver : Click 
- PalmCam File Converter : Click 
- Adobe PhotoDeluxe : Click 
- QuickTime™ : Click 

- 4 Follow the instructions as they appear on your PC screen.

PalmCam File Converter

- When transferring non-Design rule for Camera File system format images from your PC to the Digital Camera, you will need to convert the image data to Design rule for Camera File system format so that the Camera can read it.

Note

- The Design rule for Camera File system was standardized by the Japan Electronic Industry Development Association (JEIDA) with the main purpose of developing an environment in which image files such as those from Digital Still Cameras can easily be exchanged with other related devices.

QuickTime™ Installation

- QuickTime, when installed, allows your Digital Camera to transfer Motion Image Recording files to your PC.

Note

- For information on Apple QuickTime, visit their website at : <http://www.apple.com/support/>

Special Features

QuickTime and the QuickTime logo are trademarks used under license. QuickTime is registered in the U.S., and other countries.



QuickTime™

Transferring Your Images (Windows)

- If installation cannot be done with steps on page 47, please follow the steps below.

To install software

- 1** Insert supplied Software CD into the CD-ROM drive. A window may appear letting you choose the software you want to install.

Note

- If a window does not appear automatically, click the "Start" button on your desktop and then click "Run". When the Run box is open, type in "D:\Instmenu.exe" where "D:" is the drive letter of your CD; then click "OK".

- 2** Follow the instructions that appear on-screen.

Note

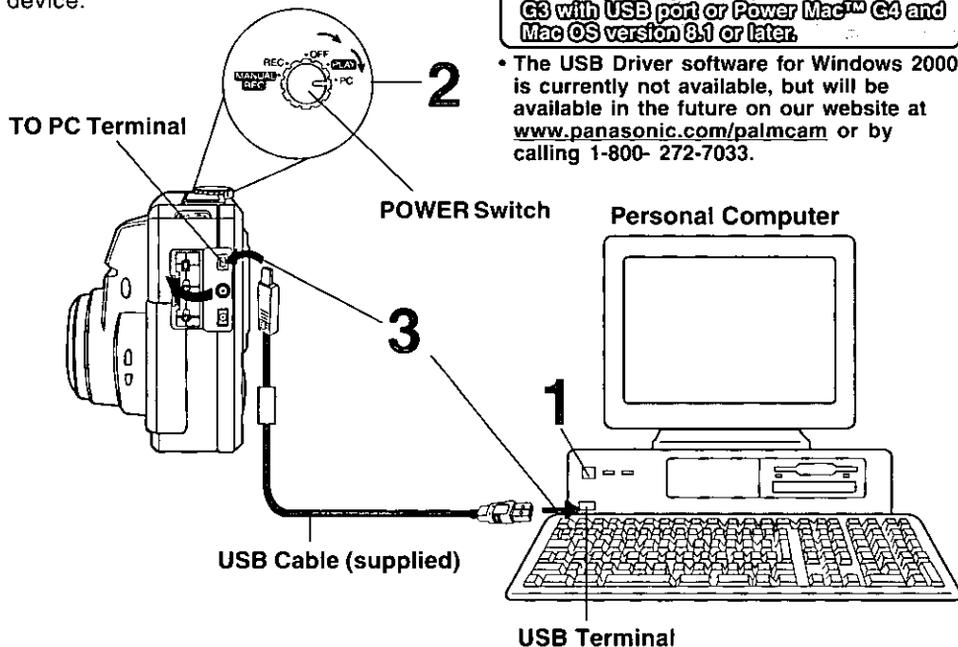
- Exit from all applications and disable any virus-protection applications.

USB Driver Installation (Windows 2000)

The USB Driver software for Windows 2000 is currently not available, but will be available in the future on our website at www.panasonic.com/palmcam or by calling 1-800-272-7033.

Transferring Your Images (Windows)

By using the included USB cable to connect to a PC, you can use your SuperDisk camera as an external storage device.



*Data transfer using USB cable is applicable only for Microsoft® Windows® 98 preinstalled PC with USB port, Windows® 2000 PC, iMac®, iBook®, Power Macintosh® G3 with USB port or Power Mac™ G4 and Mac OS version 8.1 or later.

• The USB Driver software for Windows 2000 is currently not available, but will be available in the future on our website at www.panasonic.com/palmcam or by calling 1-800- 272-7033.

Connection

- 1 Turn on your PC.
- 2 Set the POWER Switch to PC on the Digital Camera.
 - The POWER LED lamp lights up.
 - LCD Viewfinder is off in PC mode.
- 3 Connect the Digital Camera to your PC (Windows) using the USB Cable (supplied).
 - You can use this Digital Camera as a SuperDisk Drive. (See pages 62, 63, 64, 66.)

Note

- For extended periods of use, it is recommended to use the AC Adaptor (supplied) as a power source.
- Once the USB driver is installed, the Digital Camera can be connected even after the PC has been started. The USB Cable (supplied) must be connected as described in the above steps.

Transferring Your Images (Windows)

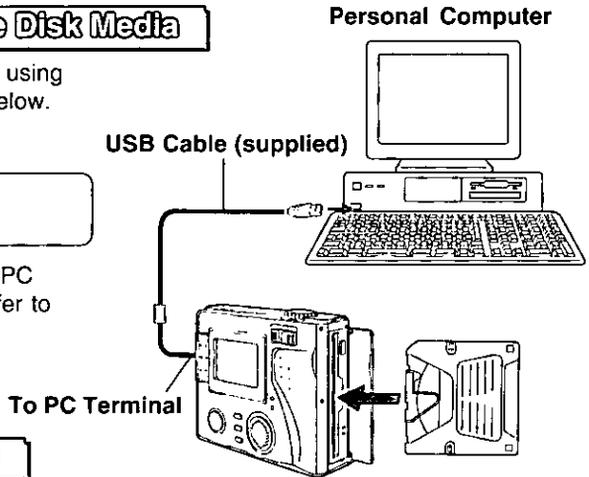
Reading and Writing the Disk Media

To read or write to the Disk Media using Windows follow the instructions below.

Before you begin

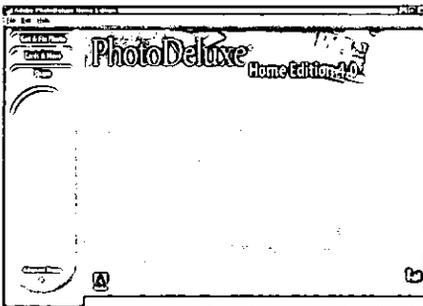
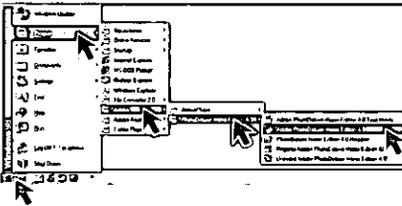
Set the **POWER Switch** to **PC**.

Connect the Digital Camera to the PC using the supplied USB Cable. Refer to page 49 for additional details.



Reading the Disk Media

- 1 Insert the Disk Media into the SuperDisk Slot.
- 2 Click "Start", "Programs", and the Image Viewing Software. For example, for PHOTODELUXE, click "Adobe", "PhotoDeluxe Home Edition 4.0", and "Adobe PhotoDeluxe Home Edition 4.0".
The initial screen of the Image Viewing Software is displayed.

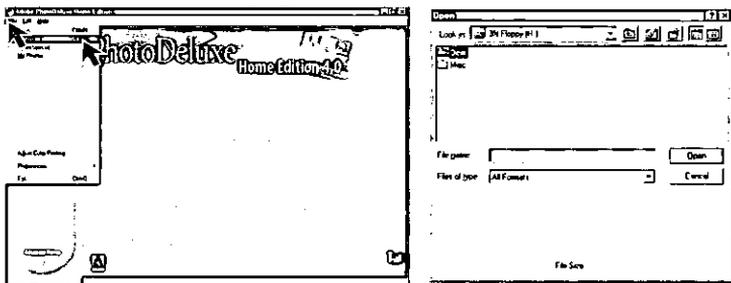


Note

- When playing back Motion images, start QuickTime.

Transferring Your Images (Windows)

- 3** Click on the "File" Menu and "Open File".
The File Open MENU is displayed.



Select the 3.5" FD Drive for the Digital Camera and find the image data file in the Digital Camera.

- When the Digital Camera POWER Switch is set to PC, the Digital Camera Drive is recognized as the 3.5" FD Drive with the latest drive letter, for example, (H:).
- The Camera Disk consists of DCIM and MISC Folders.
- The DCIM Folder is used to store image data, and the MISC Folder is used to store Print Mark data.
- Image data is stored in the "100_PANA" folder with the file number starting from "P1000001". When the 1000th image data is written, the "101_PANA" folder is created and the file number starts from "P1010001".
- File numbers once deleted cannot be used.
- If the file number is changed, the Digital Camera cannot read the file.

- 4** Open the image to view it.

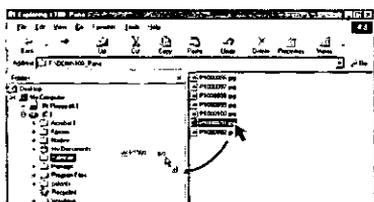
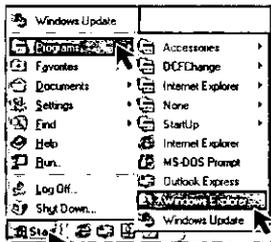
Note

- End all applications, if, after playing back a Motion image, etc. with "QuickTime", you want to change from PC mode to another mode. Only change from PC mode while a message, such as the one shown at right is displayed.

PLEASE CLOSE
IMAGE VIEWER ON PC

OK : SHTR

Writing to the Disk Media



- 1** Insert the Disk Media into the SuperDisk Slot.

- 2** Click "Start", "Programs", and "Windows Explorer".

- 3** You can write to the Disk Media by simply dragging and dropping a file or folder from the Digital Camera Drive to another Drive. You can also drag and drop a file or folder from another Drive to the Drive of the Digital Camera.

Transferring Your Images (Windows)

PalmCam File Converter

When the Digital Camera cannot playback image data which is transferred from another Drive to the Drive of the Digital Camera, even if the data is JPEG, PalmCam File Converter is necessary.

Before you begin

Set the POWER Switch to PC.

Connect the Digital Camera to the PC using the supplied USB Cable. Refer to page 49 for additional details.

- 1 Insert the Disk Media into the SuperDisk Slot. (See page 16.)
- 2 Click "Start", "Programs", "PalmCam File Converter 2.0" and "PalmCam File Converter 2.0".
- 3 Select and click "To resize the image" or "To convert format for camera playback".

• **To resize the image:**
The size of images captured with the PalmCam can be increased or decreased to make them suitable for Internet and E-mail use.

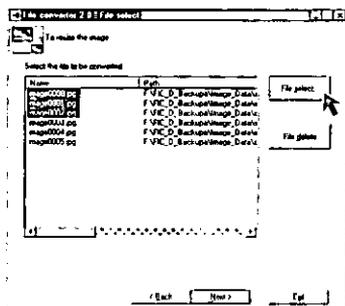
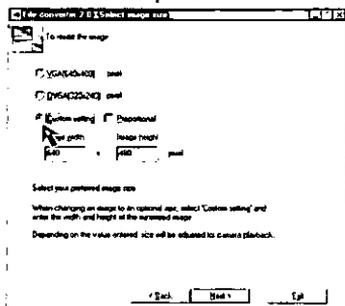
To convert format for camera playback:
Images can be converted to JPEG format and to file names that can be played back on the PalmCam.

[When selecting "To resize the image"]

- 4 Select the size for the image you want to change. And then, click on "File select" and select the file to be converted.

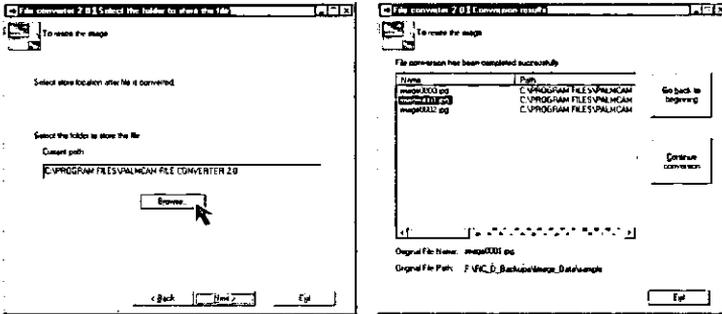
NOTE

- When User Select is selected, you can specify a size within a range of 2 048 x 1 536 ~ 64 x 48 pixels.



Transferring Your Images (Windows)

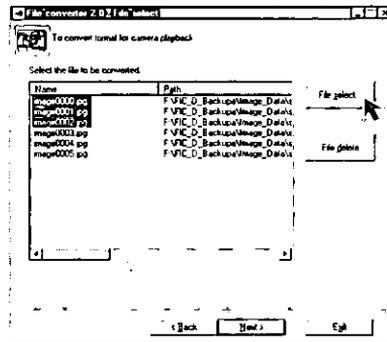
- 5** Select the folder in which the converted file is to be saved.
- The Conversion results screen is displayed.



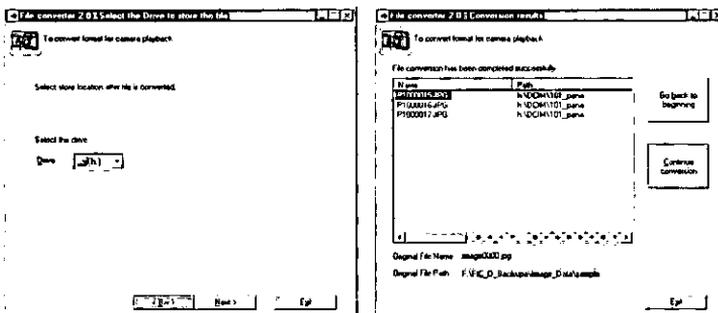
- 6** Use "Help" of "PalmCam File Converter 2.0" for detailed instructions.

[When selecting "To convert format for camera playback"]

- 4** Select the file to be converted.



- 5** Select the drive in which the converted file is to be saved.
- The Conversion results screen is displayed.



- 6** Use "Help" of "PalmCam File Converter 2.0" for detailed instructions.

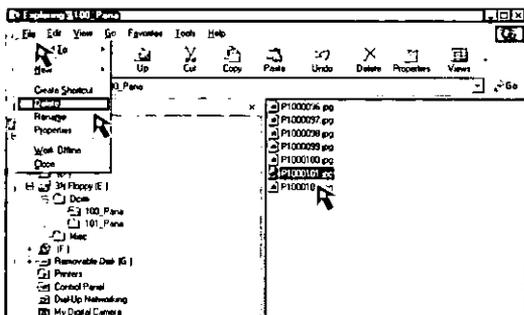
Special Features

Transferring Your Images (Windows)

Deleting a File (Folder) from the SuperDisk Drive

To delete a file (folder) from the Digital Camera.

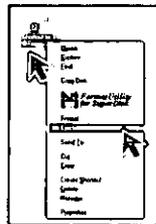
- Click on the file or folder you want to delete. Then, from the "File" menu, click on "Delete" to delete the file.



Disconnection

1 End all applications and close all windows. (i.e. QuickTime, PhotoDeluxe, etc.)

2 Eject the Disk Media from the SuperDisk Slot. (See page 16.)
• You can also remove the Disk Media by right clicking on the SuperDisk Drive icon in "Windows Explorer" and "My Computer" and then clicking on "Eject".



3 Disconnect the USB Cable (supplied) from your PC and change the POWER Switch on the Digital Camera setting from PC mode to another selection. Make sure that all of the applications and all of the windows are closed. Then press the SHTR button.

Note:

- If the USB Cable (supplied) is connected before the AC Adaptor is connected, or, if the AC Adaptor is disconnected before the USB Cable is disconnected, it is possible that Windows will abort the operation.
- The USB Cable (supplied) must be disconnected as described in the above steps.

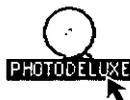
Transferring Your Images (Macintosh)

System Requirements:

- Mac OS 8.1, 8.5, 8.5.1, 8.6
- iMac, iBook or Power Macintosh® G3 with USB port or Power Mac™ G4
- 32 MB of RAM
- 10 MB available hard disk space
- 256 Color Monitor or Full Color Monitor recommended (24 bits per pixel or 16.7 million colors)
- CD-ROM drive (for installation)
- USB Port
- Mouse or other pointing device

USB Driver Installation

- 1 Turn on the Macintosh.
- 2 Insert the supplied Software CD-ROM into the CD-ROM Drive.
- 3 Double click the "PHOTODELUXE" icon.
- 4 Double click on "Panasonic", "Driver" and "DSC&SuperDisk Driver".
- 5 Follow the instructions as they appear on your Macintosh section screen.



When the USB Driver is installed, the following changes will occur.

- The Mac OS ROM in the Mac OS 8.1 system folder is changed from 1.1 to 1.1.2.
- The USB Driver of the SuperDisk Drive is installed in the function expansion folder of the System folder.
- Inquire about Mac OS and Firmware updates at the Apple Computer Inc. web site (<http://www.apple.com/>).

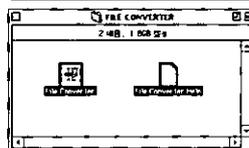
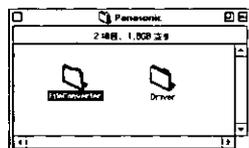
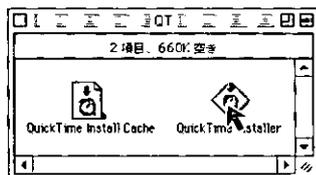
QuickTime™ Installation

- QuickTime, when installed, allows your Digital Camera to transfer Motion Image Recording files to your PC.

Note:

- For information on Apple QuickTime, visit their website at: <http://www.apple.com/support/>

- 1 Repeat steps 1~3 above.
- 2 Double click on "QT" and "QuickTime Installer".
- 3 Follow the instructions as they appear on your Macintosh section screen.



PalmCam File Converter Installation

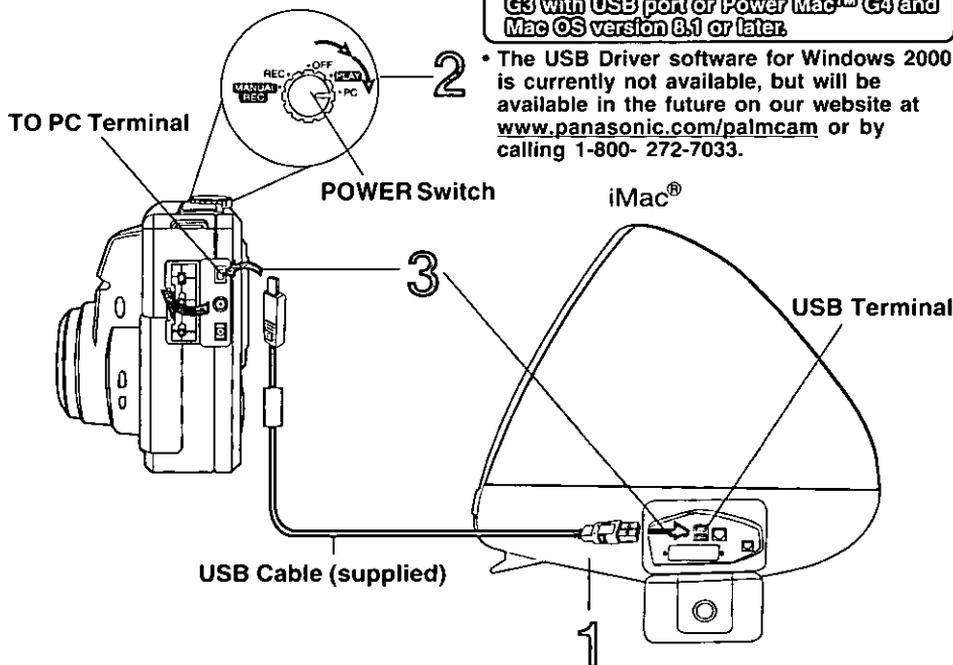
- 1 Repeat steps 1~3 above.
- 2 Double click on "Panasonic" and "FileConverter".
- 3 Drag and Drop the FileConverter file into the hard disk.

Transferring Your Images (Macintosh)

By using the included USB cable to connect to a PC, you can use your SuperDisk camera as an external storage device.

*Data transfer using USB cable is applicable only for Microsoft® Windows® 98 preinstalled PC with USB port, Windows® 2000 PC, iMac®, iBook®, Power Macintosh® G3 with USB port or Power Mac™ G4 and Mac OS version 8.1 or later.

• The USB Driver software for Windows 2000 is currently not available, but will be available in the future on our website at www.panasonic.com/palmcam or by calling 1-800-272-7033.



Connection

- 1 Turn on your PC.
- 2 Set **POWER Switch** to **PC** on the Digital Camera.
 - The **POWER LED** lamp lights up.
 - **LCD Viewfinder** is off in **PC** mode.
- 3 Connect the **Digital Camera** to your **PC** using the **USB Cable (supplied)**.
 - You can use this **Digital Camera** as a **SuperDisk Drive**. (See pages 62, 65, 66.)

Note

- For extended periods of use, it is recommended to use the **AC Adaptor (supplied)** as a power source.
- Once the **USB driver** is installed, the **Digital Camera** can be connected even after the **PC** has been started. The **USB Cable (supplied)** must be connected as described in the above steps.

Transferring Your Images (Macintosh)

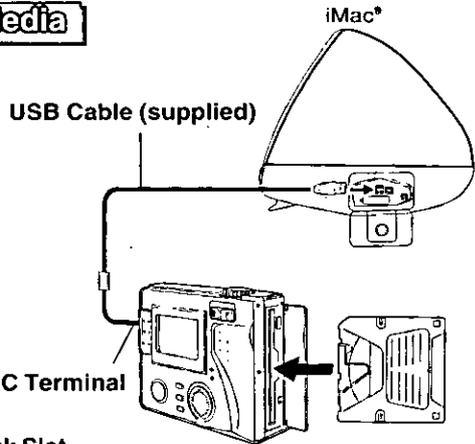
Reading and Writing the Disk Media

To read or write to the Disk Media using Macintosh, follow the instructions below.

Before you begin

Set the **POWER Switch** to **PC**.

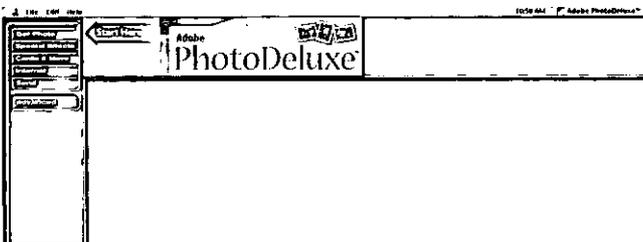
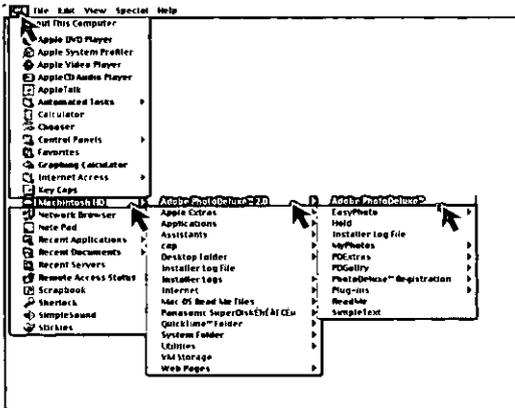
Connect the Digital Camera to the PC using the supplied USB Cable. Refer to page 56 for additional details.



Reading the Disk Media

- 1 Insert the Disk Media into the SuperDisk Slot.
- 2 Click "Apple Menu", "Macintosh HD", "Adobe PhotoDeluxe™ 2.0" and "Adobe PhotoDeluxe™".

The initial screen of the Image Viewing Software is displayed.



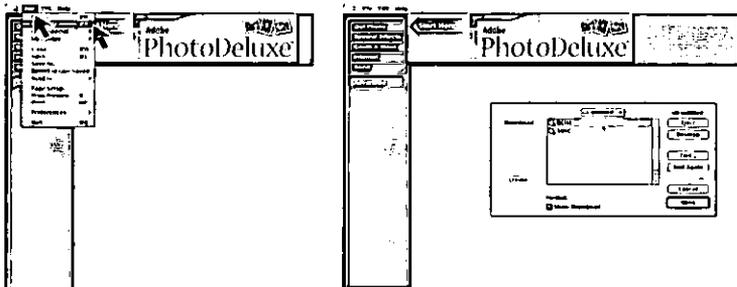
Note

- When playing back Motion images, start QuickTime.

Special Features

Transferring Your Images (Macintosh)

- 3** Click on the "File" Menu and "Open File".
The File Open MENU is displayed.



Select the 3.5" FD Drive for the Digital Camera and find the image data file in the Digital Camera.

- When the Digital Camera POWER Switch is set to PC, the Digital Camera Drive is recognized as the 3.5" FD Drive.
- The Camera Disk consists of DCIM and MISC Folders.
- The DCIM Folder is used to store image data, and the MISC Folder is used to store Print Mark data.
- Image data is stored in the "100_PANA" folder with the file number starting from "P1000001". When the 1000th image data is written, the "101_PANA" folder is created and the file number starts from "P1010001".
- File numbers once deleted cannot be used.
- If the file number is changed, the Digital Camera cannot read the file.

- 4** Open the image to view it.

Note

- End all applications, if, after playing back a Motion image, etc. with "QuickTime", you want to change from PC mode to another mode. Only change from PC mode while a message, such as the one shown at right is displayed.



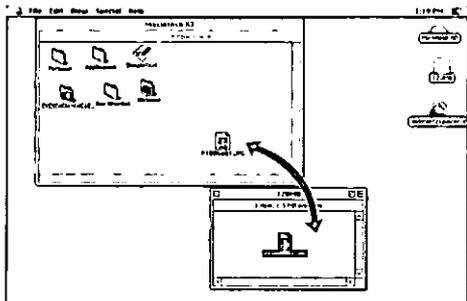
Writing to the Disk Media



- 1** Insert the Disk Media into the SuperDisk Slot.

- 2** Click the icon displayed on the desktop.

- 3** You can write to the Disk Media by simply dragging and dropping a file or folder from the Digital Camera Drive to another Drive.



Transferring Your Images (Macintosh)

PalmCam File Converter

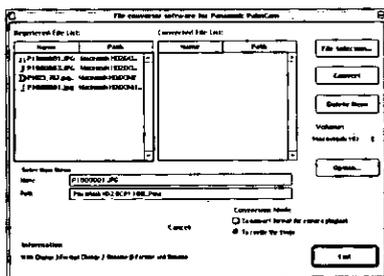
When the Digital Camera cannot playback image data which is transferred from another Drive to the Drive of the Digital Camera, even if the data is JPEG, PalmCam File Converter is necessary.

Before you begin

Set the POWER Switch to PC.

Connect the Digital Camera to the Macintosh using the supplied USB Cable. Refer to page 56 for additional details.

- 1 Insert the Disk Media into the SuperDisk Slot. (See page 16.)
- 2 Double click on "FileConverter".
- 3 Select and click "To resize the image" or "To convert format for camera playback" from Conversion mode.
 - To resize the image : Resize the JPEG image for use with the Internet, e-mail, etc.
 - To convert format for camera playback : Convert to JPEG image format for camera playback.
- 4 Select "File Selection" to register a file from the file select dialog box.

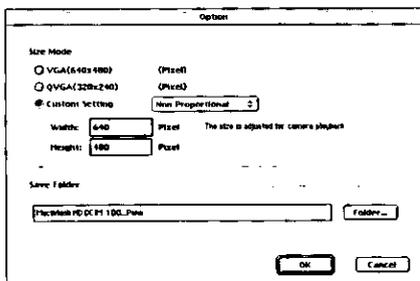


Note

- Only JPEG format file can be selected.
- A maximum of 1 000 files can be selected at one time.

[When selecting "To resize the image"]

- 5 Specify the save location.
Select "Option" and select the desired size from the following 3 options. Then, Select the "Folder" and select the store folder.



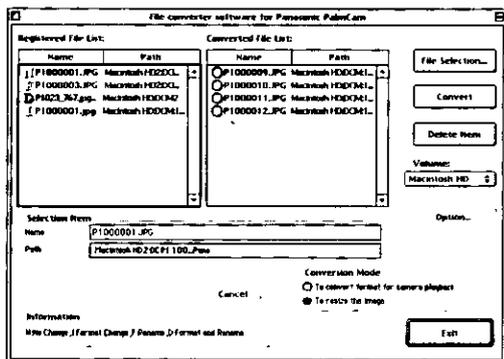
Note

- VGA (640 X 480) pixels
- QVGA (320 X 240) pixels
- Custom select : Custom select allows you to freely set the image height and width from 64 X 48 to 2 048 X 1 536 pixels.

(Continued on next page)

Transferring Your Images (Macintosh)

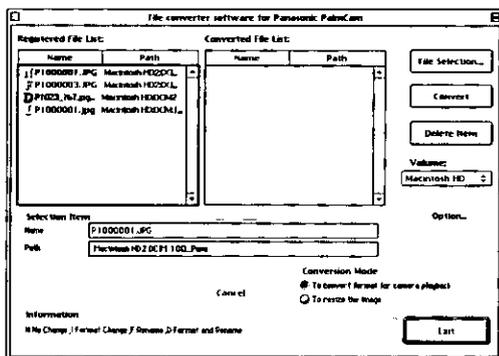
6 Click "Convert" to convert the selected file.



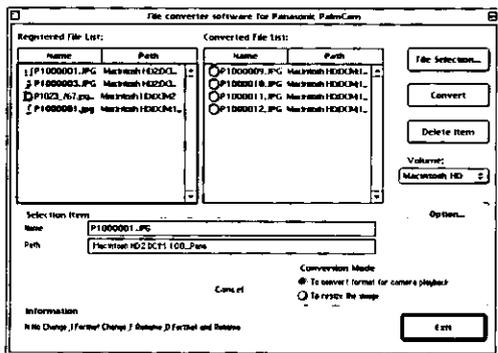
7 Use "Help" of "File Converter" for detailed instructions.

[When selecting "To convert format for camera playback"]

5 Select the store volume for converted files from the "Volume" list box.



6 Click "Convert" to convert the selected file.



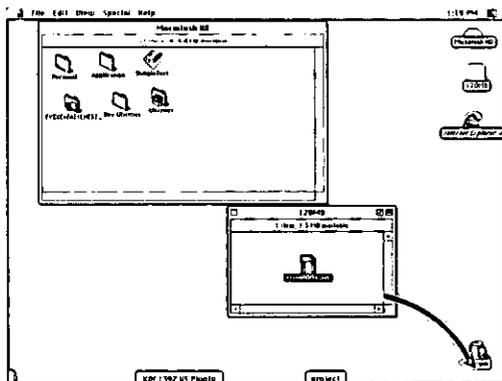
7 Use "Help" of "File Converter" for detailed instructions.

Transferring Your Images (Macintosh)

Deleting a File (Folder) from the SuperDisk Drive

To delete a file (folder) from the Digital Camera.

- Drag and Drop the selected file or folder into the "Trash" icon.



Disconnection

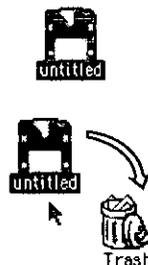
- 1 End all applications and close all windows. (i.e. QuickTime, PhotoDeluxe, etc.)
- 2 Eject the Disk Media from the SuperDisk Slot. (See page 16.)
- 3 Disconnect the USB Cable (supplied) from your PC and change the POWER Switch on the Digital Camera setting from PC mode to another selection. Make sure that all of the applications and all of the windows are closed. Then press the SHTR button.

Note

- If the USB Cable (Supplied) is connected before the AC Adaptor is connected, or, if the AC Adaptor is disconnected before the USB Cable is disconnected, it is possible that Macintosh will abort the operation.
- The USB Cable (supplied) must be disconnected as described in the above steps.

Removing the Disk Media

- When the PC recognizes the Disk Media, an icon, like the one shown right, is displayed on the desktop.
- You can remove Disk Media from the Digital Camera by dragging and dropping the Disk Media icon on the desktop into the "Trash" icon.
- While the PC is starting up, the Disk Media cannot be removed, even if the EJECT button on the Digital Camera is pressed.
- When a damaged Disk Media is inserted in the Digital Camera, the Disk Media icon will not appear on the PC desktop. In this case, the Disk Media can be removed by pressing the EJECT button on the Digital Camera.



SuperDisk Drive

You can use this Digital Camera as an external SuperDisk storage drive. You can only use SuperDisk Diskette media or 2HD Floppy Disks in this camera.

Note

- When a DOS formatted Floppy Disk is read by a Macintosh, the PC/File Exchange function will be necessary.

Media Format Type & Explanation

Type	Format Style	Explanation	Note
SuperDisk Diskette	DOS Format (120 MB)	This format is usable with DOS and Windows.	This format is usable with Windows and Macintosh.
Floppy Disk (2HD)	DOS Format (1.44 MB)	This format is usable with DOS and Windows.	This format is usable with Windows and Macintosh.

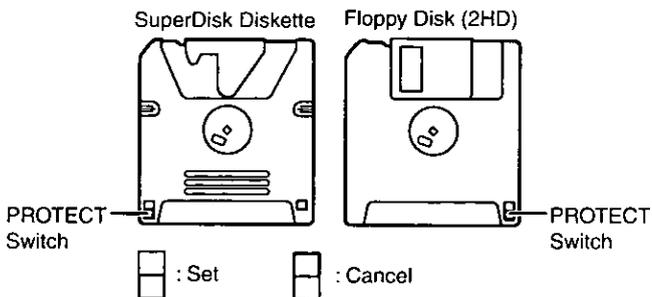
Note

Adverse conditions, such as those described below, are confirmed in PC Exchange Ver. 2.2.1 and also File Exchange Ver. 3.0.

- **Do not format a SuperDisk Diskette that is in the DOS format on a Macintosh.** If you use the DOS format with a Macintosh, the SuperDisk Diskette will not be able to be read or written to.

WRITE Protecting the Disk Media

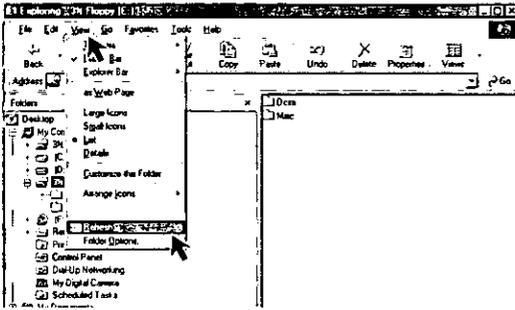
You can prohibit the writing to or deletion of data from the Disk Media by using the PROTECT switch as shown below.



Using the SuperDisk Drive (Windows)

Before Formatting

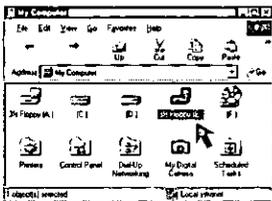
Before formatting the Disk Media, close all applications and all windows. If you format the Disk Media while any of the disk's files are open, an error may occur on the display.



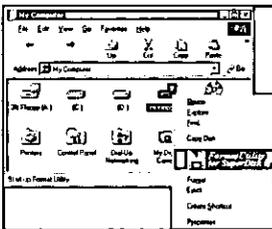
Formatting the Disk Media

1 Insert the Disk Media into the SuperDisk Slot.

2 Click "My Computer". Click right mouse button on the 3 1/2 Floppy icon.



3 Click "FormatUtility for SuperDisk".

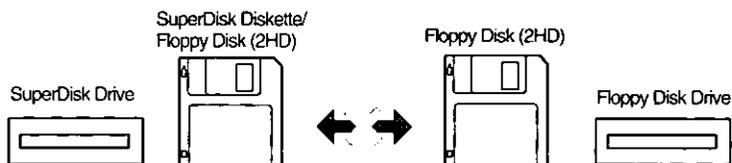


4 Follow the instructions as they appear on your PC screen.

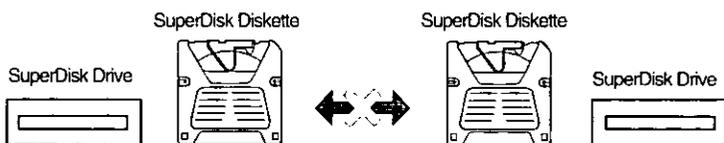
Using the SuperDisk Drive (Windows)

Copying the Disk Media

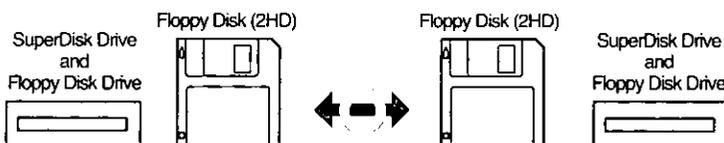
- The DISKCOPY command at the DOS prompt cannot be used.



- Disk copy cannot be performed with SuperDisk Diskette.

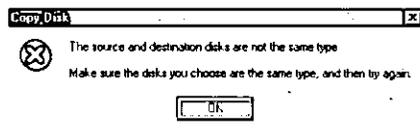


- Explorer CopyDisk is only possible with 2HD Floppy Disk.



When using Windows Explorer, etc., if you attempt to copy a previously used 2HD Floppy Disk from the Floppy Disk Drive to the Digital Camera with the CopyDisk utility, please note the following.

After PC start up, when CopyDisk is attempted the first time, a Windows error message box may be displayed and CopyDisk may fail.



In this case, switch the source Floppy Disk and the target Floppy Disk so that CopyDisk is performed from the Digital Camera to the Floppy Disk Drive. By doing this, CopyDisk will function properly.

Using the SuperDisk Drive (Macintosh)

Formatting the Disk Media

Note

- Do not format the Disk Media under DOS format with Macintosh.

1 Insert the SuperDisk Diskette or Floppy Disk into the SuperDisk Slot.

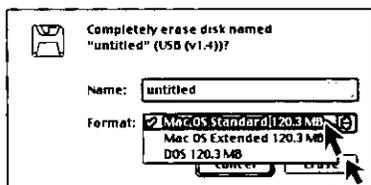
2 Click the SuperDisk Diskette or Floppy Disk icon displayed on the desktop.



3 Select "Erase Disk" in the "Special" MENU.



4 Select format style. Then, click "Erase".



Note

- When using the Disk Media that was formatted to Mac OS standard format or Mac OS expanded format in the Digital Camera, format again in the Digital Camera.
- When "File Sharing" is used, formatting may be impossible. In this case, either quit "File Sharing" or turn AppleTalk off in the control panel.
- In Camera mode (REC, MANUAL REC, PLAY), only PC Exchange Ver. 2.2.1 in DOS format can be used.

Using the SuperDisk Drive

Important Operating Notes

- **FORMAT command cannot be used.**

The FORMAT command at the DOS prompt cannot be used for the Digital Camera.

- **DISKCOPY command cannot be used.**

The DISKCOPY command at the DOS prompt cannot be used for the Digital Camera.

- **You cannot boot your PC from this Digital Camera.**

- **When using the Digital Camera, never remove the Disk Media while data is being written to it.**

If the Disk Media is removed while it is being written, it may become completely unusable.

- **When a Defective Disk is inserted into the Digital Camera, it will take a longer than usual time for the drive to recognize the disk.**

This is normal, so please wait for a while.

- **If the Disk Media is not inserted into the SuperDisk Drive, "FormatUtility for SuperDisk" will not be displayed.**

Insert the Disk Media. After the busy light goes out, right click on the SuperDisk icon.

- **According to the use limitations of "QuickTime for Windows", files stored in the SuperDisk Drive may not play back normally.**

- **Unable to place in Suspend/ Resume mode.**

While the SuperDisk Drive is reading/writing to the Disk Media, please do not place in Suspend/ Resume mode.

- **This Digital Camera is not compatible with Flash Pass.**

- **Using a head cleaner caution.**

When using a head cleaner, please use the product described below and limit cleaning to about 7 seconds.

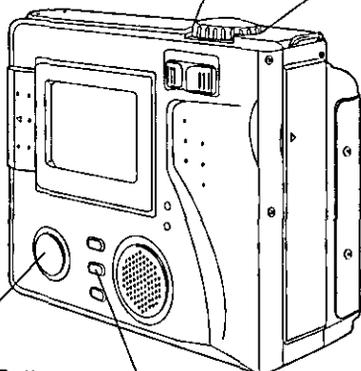
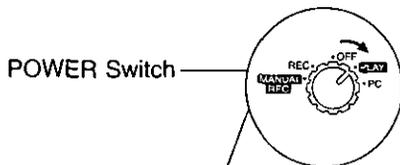
Name of article : Imation 3.5" Dry Head Cleaning Disk

Article No. : 74040183035

Use this feature when a laboratory service that supports DPOF (Digital Print Order Format) is used.

Before you begin

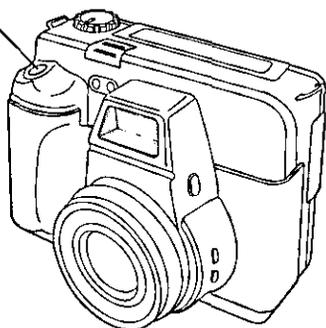
Set the **POWER Switch** to **PLAY**.
(See page 19.) Press **MENU** to display the **MENU** screen.



1, 2
Select Button
▲/▼/◀/▶

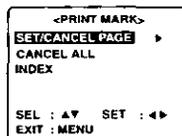
3 MENU Button

2 SHTR (SHUTTER)



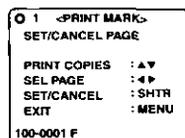
Stamp Print Marker

- 1 Press ▲ or ▼ to select **PRINT MARK** and press ▶ to display **PRINT MARK** menu.



- Select "SET/CANCEL PAGE" to select image, "CANCEL ALL" to cancel all image print marks, and "INDEX" to set or clear index print mark on all pages.

- 2 Press ◀ or ▶ to select the image page you want to mark for printing and press **SHTR** to stamp print mark. A "○" mark will appear on the image. Press ▲ or ▼ to select number of copies to print. (up to 99)



- Repeat step 2 to stamp other images.
- Press **SHTR** again to cancel print mark.

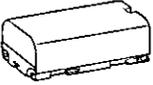
- 3 Press **MENU** to exit this menu.



Print mark is based on DPOF (Digital Print Order Format).

Digital Camera Accessory

For ordering instructions, see the Accessory Order Form page.

Accessory #	Figure	Description	Price
CGR-B/ 202A1B		Lithium Ion Battery	\$100.00
PV-FA52		Lens Adaptor & Protective Filter Kit	\$69.95
PV-H150		System Carrying Case	\$49.95

Digital Camera Accessory Order Form

Please photocopy this form when placing an order.

1. Model # _____

2. Items Ordered

Accessory #	Description	Price Each	Quantity	Total Price
Subtotal				
Your State & Local Sales Tax				
Shipping & Handling				5.00
Total Enclosed				

3. Method of payment (check one)

- Check of Money Order enclosed (NO C.O.D.SHIPMENTS)
- VISA Credit Card # _____
- MasterCard Expiration Date _____
- Discover Customer Signature _____

Make Check or Money Order to: MATSUSHITA ACCESSORIES

(Please do not send cash)

4. Shipping information (UPS delivery requires complete street address)

Ship To:

Mr.

Mrs.

Ms.

First _____ Last _____

Phone #:

Day () _____

Street Address _____

Night () _____

City _____ State _____ Zip _____

TO OBTAIN ANY OF OUR DIGITAL CAMERA ACCESSORIES YOU CAN DO ANY OF THE FOLLOWING:

VISIT YOUR LOCAL PANASONIC DEALER

OR

CALL PANASONIC'S ACCESSORY ORDER LINE AT 1-800-272-7033 [8:30 AM-8 PM M-F, EST]

OR

MAIL THIS ORDER TO: PANASONIC SERVICES COMPANY ACCESSORY ORDER OFFICE
20421 84th Avenue South Kent, WA. 98032

For Your Information

Before Requesting Service

If you have a problem with your Digital Camera, it may be something you can correct yourself.

Check the list below for symptoms and corrections.

Symptom	Possible Solution
Cannot charge the Battery Pack.	<ul style="list-style-type: none">• Make sure the rechargeable Lithium Ion Battery Pack is attached. (p. 12)• Make sure all necessary connections are correct and tight. (p. 12)
No power.	<ul style="list-style-type: none">• Lithium Ion Battery is depleted. (p. 13)• Make sure polarities are aligned properly. (p. 13)• When the unit is moved from a cold place to a warm place, it may not function. In this case, please wait one hour before using the unit.
Power shuts off automatically.	<ul style="list-style-type: none">• Auto shut off feature is on. Press SHTR, or set POWER Switch to OFF, and then set to REC or MANUAL REC. (pp. 18, 19, 21)
Cannot capture the image.	<ul style="list-style-type: none">• SuperDisk Diskette/(FD) is not inserted. (p. 16)• Make sure the POWER switch is set to REC or MANUAL REC. (pp. 18, 19)• No memory. Delete some images before capturing images. (p. 41)
No Picture on the LCD Viewfinder.	<ul style="list-style-type: none">• Auto shut off feature is on. Set the POWER to OFF and then set to REC or MANUAL REC. (pp. 18, 19, 21)
LCD Viewfinder image is too bright or dark.	<ul style="list-style-type: none">• Make sure the LCD Viewfinder brightness setting is adjusted properly. (p. 31)
Flash will not light.	<ul style="list-style-type: none">• The flash mode is set to  (OFF). Change the flash mode. (p. 36)
Cannot playback.	<ul style="list-style-type: none">• SuperDisk Diskette/(FD) is not inserted. (p. 16)• There are no images on the SuperDisk Diskette/(FD). (pp. 21~24)• Set the POWER switch to PLAY. (p. 19)• Do PalmCam File Conversion. (pp. 52, 53, 59, 60)
No picture on the TV (if connected).	<ul style="list-style-type: none">• Make sure all necessary connections are correct and tight. (p. 35)• Make sure the TV is set to video input mode. (p. 35)
Cannot transfer images on the PC Connection.	<ul style="list-style-type: none">• Make sure all necessary connections are correct and tight. (pp. 49, 56)• Make sure the SuperDisk Driver is installed.• Set Camera to PC mode. (pp. 49, 56)

Warning Indications

These displays will alert you of a missed operation or provide further instructions.

Indication	Phenomenon	Solution
DRIVE ERROR	Failed to initialize the drive.	If, after Power Switch is set to OFF, then REC or PLAY again, DRIVE ERROR is still displayed, the camera may be broken and needs repair.
READ ERROR	Failed to read.	The camera cannot read this image. Press + or - button to play the next image. A READ ERROR file cannot be delete in DELETE menu. Please format the disk, or delete with the PC.
WRITE ERROR	Failed to write.	If the problem occurred while capturing, please capture again. If WRITE ERROR is still displayed, the disk may be defective, or could not be read. Please reinsert the disk or change disks. If the problem occurred while setting a COPY or PRINT MARK, please try again. If still WRITE ERROR, repeat this procedure.
DISK ERROR (PUSH SHTR TO FORMAT)	Unsuitable disk.	If PUSH SHTR TO FORMAT is displayed, you may format the disk. If PUSH SHTR TO FORMAT is not displayed, the disk cannot be formatted. (Disks that can be formatted were once formatted under DOS or Mac.)
DELETE ERROR	Failed to delete the file.	If after second attempt to delete again, DELETE ERROR is displayed, the disk may be defective. Change disks.

Warning Indications

Indication	Phenomenon	Solution
FORMAT ERROR	Failed to format the disk.	If after second attempt to format again, FORMAT ERROR is displayed, the disk may be defective. Change disks.
THIS DISK IS PROTECTED	The disk is protected.	If THIS DISK IS PROTECTED is displayed, change disks or disengage protect.
NOT ENOUGH MEMORY PUSH MENU TO EXIT	Insufficient disk memory. (1.44 MB) Copy capacity was exceeded.	If NOT ENOUGH MEMORY is displayed, delete unnecessary images. Or, decrease or change the images to be copied.
NOT ENOUGH DISK SPACE CONTINUE : SHTR EXIT : MENU	Insufficient space on target disk compared to source disk.	After pressing SHTR to CONTINUE , switch to a disk with enough space, or press MENU to EXIT .
NOT AVAILABLE DISK SPACE CONTINUE : SHTR EXIT : MENU	The disk cannot be copied.	The disk is unusable or protected. After pressing SHTR to CONTINUE , switch to a disk with enough space, or press MENU to EXIT .
CANNOT COPY ALL THE SUPERDISK	Cannot copy all the images.	It is impossible to select ALL COPY when SuperDisk is the source. Please select COPY PAGE to copy.
PLEASE REMOVE THE LENS CAP	Lens Cover is closed.	Please open the Lens Cover.
LIGHT	The light level is inadequate.	More light should be provided or use flash to achieve better picture quality and color.

Specifications

CCD	1/1.8 inch 3 340 k Pixels
Lens	f=7.0-21.0 mm (equivalent to a 35-105 mm lens on a 35 mm still camera.)/F2.0-2.5
Focus	Auto / Preset (Zone)
Focusing Area	30 cm ~ ∞ (AF)/6 cm ~ 50 cm (Macro)
Iris (Shutter Speed)	F2.0 ~ F8.0 (wide)
Shutter Speed	1/30-1/1 000 seconds (Auto), 1/4-1/1 000 seconds (Slow Shutter mode)
White Balance	Auto/Indoor/Outdoor/White Set
LCD Viewfinder	2.5 inch (63.4 mm) TFT Color LCD with 112 k pixels
Flash	Built-in
Microphone	Built-in (Mono)
Speaker	Built-in (Mono)
Memory	Floppy Disk (1.44 MB)/SuperDisk Diskette(120 MB)
Image Size	2 048 × 1 536 pixels (Super Fine, Fine, TIFF mode) 1 024 × 768 pixels (Normal, Zoom 2X,  mode) 640 × 480 pixels (Zoom 3X mode) 320 × 240 pixels ( mode)
Image Storage (Floppy Disk)	Approx. 2 images (Super Fine mode) Approx. 4 images (Fine mode) Approx. 12 images (Normal, Zoom 2X mode) Approx. 15 images ( mode) Approx. 17 images (Zoom 3X mode) 10 seconds × 1 set ( mode)
(SuperDisk Diskette)	Approx. 240 images (Super Fine mode) Approx. 340 images (Fine mode) Approx. 1 000 images (Normal, Zoom 2X) Approx. 1 400 images ( mode) Approx. 1 500 images (Zoom 3X mode) 12 seconds × Approx. 70 sets ( mode) Approx. 12 images (TIFF mode)
Image Format (Still Image With Audio) (Motion Image)	JPEG (Design Rule for Camera File System) JPEG, QuickTime
Digital Interface	QuickTime (320 pixel × 240 pixel Still image with Audio)
Video Signal	USB
Power Supply	NTSC Composite Lithium Ion Battery (1 250 mAh, 7.2 V)/AC Adaptor (input 110 V -240 V AC)
Power Consumption	Digital Camera : 7.2 V DC, 0.7 A AC Adaptor (supplied) input : USA&CANADA 120 V-60 Hz 0.3 A FOREIGN 110 V-240 V-50 Hz-60 Hz 0.3 A output : 7.2 V = 1.0 A 7.2 V = 0.9 A (CHARGE)
Operating Temperature	32 °F – 104 °F/0 °C – 40 °C
Operating Humidity	10 % – 75 %
Weight	Digital Camera 1.53 lbs approx./695 g approx. AC Adaptor (supplied) 0.308 lbs approx./140 g approx.
Dimensions	Digital Camera 5-11/16 (W) × 4-3/8 (H) × 3-1/4 (D) inch 144 (W) × 112 (H) × 84 (D) mm AC Adaptor (supplied) 2-5/16 (W) × 1-7/16 (H) × 4-5/16 (D) inch 59 (W) × 37 (H) × 110 (D) mm

Weight and dimensions shown are approximate.

Design and specifications are subject to change without notice.

Warranty

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infanteria. Km. 9.5
San Gabriel Industrial Park, Carolina, Puerto Rico 00985

PANASONIC/QUASAR Video Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PRODUCT	PARTS	LABOR
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR	NINETY (90) DAYS
DIGITAL CAMERA	CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS
VCR	ONE (1) YEAR	NINETY (90) DAYS
AV MIXER	ONE (1) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT- NINETY (90) DAYS CUSTOMER PAYS ALL LABOR CHARGES AFTER 90 DAYS

Monitor-VCR In-home or carry-in Service: 22" (diagonal) CRT / LCD and Larger
Monitor-VCR Carry-in Service: 21" (diagonal) CRT / LCD and smaller

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 1-800-272-7033, to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above. THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.

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Service Center Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

1-800-272-7033, Monday-Friday 8:30am-8pm EST.

Web Site: <http://WWW.Panasonic.com>

You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Product Repairs

Centralized Factory Servicenter

Centralized Factory Servicenter
Panasonic Services Company
1705 N. Randall Road,
Elgin, IL 60123-7847

Attention: Digital Camera Repair

Please carefully pack and ship, prepaid and insured, to the Elgin centralized repair Factory Servicenter. While there will be added handling delays, you may bring your unit to one of the following locations who will then forward the unit to Elgin for repair.

Customer's in Puerto Rico, please ship or carry in to location below ("Service in Puerto Rico").

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue
Cypress, CA 90630

800 Dubuque Avenue
S. San Francisco,
CA 94080

20201 Sherman Way
Suite 102
Canoga Park, CA 91306

3878 Ruffin Road
Suite A
San Diego, CA 92123

COLORADO

1640 South Abilene
Street Suite D
Aurora, CO 80012

FLORIDA

3700 North 29th Avenue
Suite 102
Hollywood, FL 33020

GEORGIA

8655 Roswell Road
Suite 100
Atlanta, GA 30350

ILLINOIS

1703 North Randall Road
Elgin, IL 60123
(Pick-up / Drop-off only)

9060 Golf Road
Niles, IL 60714

MARYLAND

62 Mountain Road
Glen Burnie MD 21061

MASSACHUSETTS

60 Glacier Drive,
Suite G
Westwood, MA 02090

MICHIGAN

37048 Van Dyke Avenue
Sterling Heights, MI
48312

MINNESOTA

7850-12th Avenue South
Alrport Business Center
Bloomington, MN 55425

OHIO

2236 Waycross Road
Civic Center Plaza
Forest Park, OH 45240

PENNSYLVANIA

2221 Cabot Blvd. West
Suite B
Langhorne, PA 19047

TEXAS

13615 Welch Road
Suite 101
Farmers Branch,
TX 75244

WASHINGTON

20425-84th Avenue
South
Kent, WA 98032

HAWAII

99-859 Iwaiwa Street
Aiea, Hawaii 96701
Phone (808) 488-1996
Fax (808) 486-4369

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:
Ave. 65 de Infanteria. Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985
Phone (787) 750-4300 Fax (787) 768-2910

Accessory Purchases:

Customer Orders Only 1-800-272-7033

As of January 2000

Index

A		O	
AC Adaptor (Supplied)	2, 12, 14	On Screen Display (OSD)	9
AC Cable (Supplied)	2, 12, 14	P	
Accessory (optional)	68	Playback	32, 33, 34
Accessory (Supplied)	2	Playback Menu	11
A/V Cable	2, 35	POWER Supply	12, 13, 14
B		Print Mark (DPOF)	67
Battery Remaining Indication	9	Q	
Before Requesting Service	70	Quick Rec (FD)	28
Beep	26	R	
Brightness (LCD Viewfinder)	31	RapidFire™	9, 27
Built-in Flash	36	Rec Review	28
C		Recording Menu	10
Camera Strap	2, 15	Recording Mode	25
Capturing Images	21~30	S	
Copy Image	44, 45	Self Timer	10, 39
D		Setting the Clock	20
DC POWER Cable	2, 14	Service Center Directory	75
Delete Image	41, 42	Slide Show	46
Digital Camera Accessory Order Form	69	Slow Shutter	10, 21, 22
F		Specifications	73
Formatting the Disk Media	43	SuperDisk	2, 16
I		SuperDisk Drive	62, 63, 64, 65, 66
Index of Controls	7, 8	T	
L		Transferring Images	35, 47~61
LCD Viewfinder	21~24, 31, 32	Time Lapse	40
Lens Cap	2, 15	W	
Low Light Warning	72	Warning Indications	71, 72
Light Metering	38	Warranty	74
Lithium Ion Battery	2, 12, 13, 68	White Balance	37
M		Z	
Manual Mode	29, 30	Zoom Playback	34
Manual Playback	32		
MENU Screen	18, 19		
Multi Playback	33, 34		
Motion Image Playback	33		

**Panasonic Consumer
Electronics Company, Division
of Matsushita Electric
Corporation of America**
One Panasonic Way Secaucus,
New Jersey 07094

**Panasonic Sales Company ("PSC"),
Division of Matsushita Electric
of Puerto Rico, Inc.**
Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

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