# JVC



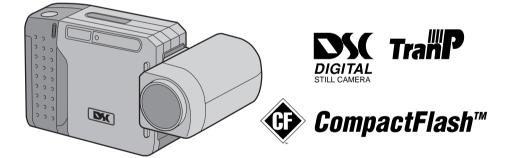
# DIGITAL STILL CAMERA



ENGLISH

Please visit our CyberCam Homepage on the World Wide Web and answer our Consumer Survey (in English only):

http://www.jvc-victor.co.jp/index-e.html





#### For Customer Use:

Enter below the Model No. and Serial No. which is located on the bottom of cabinet. Retain this information for future reference.

Model No.

Serial No.

#### Dear Customer,

Thank you for purchasing the Digital Still Camera. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of your new Digital Still Camera.

#### Using This Instruction Manual

- All major sections and subsections are listed in the Table Of Contents ( 27 pg. 8, 9).
- Notes appear after most subsections. Be sure to read these as well.
- Basic and advanced features/operation are separated for easier reference.

#### It is recommended that you . . .

- ..... refer to "CONTROLS, CONNECTORS AND INDICATORS" (IF pgs. 56 – 61) and familiarize yourself with button locations, etc. before use.
- ..... read thoroughly the Safety Precautions and Safety Instructions that follow. They contain extremely important information regarding the safe use of your new Digital Still Camera.

You are recommended to carefully read the cautions on pages 65 - 67 before use.

# SAFETY PRECAUTIONS





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

The AA-V33U AC Power Adapter should be used with:

AC 120 V $\sim$ , 60 Hz in the USA and Canada, AC 110 – 240 V $\sim$ , 50/60 Hz in other countries.

**CAUTION (applies to the AA-V33U)** TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

#### ATTENTION (s'applique à l'AA-V33U)

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

#### **NOTES:**

- The rating plate (serial number plate) and safety caution are on the bottom and/or the back of the main unit.
- The rating plate (serial number plate) of the AC Power Adapter is on its bottom.

# CAUTION:



To avoid electric shock or damage to the unit, first firmly insert the small end of the power cord into the AC Power Adapter until it is no longer wobbly, and then plug the larger end of the power cord into an AC outlet.

This camera is designed to be used with NTSCtype color television signals. It cannot be used for playback with a television of a different standard. However, shooting and LCD monitor playback are possible anywhere.

# IMPORTANT PRODUCT SAFETY INSTRUCTIONS

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

#### ATTENTION:

Follow and obey all warnings and instructions marked on your product and its operating instructions. For your safety, please read all the safety and operating instructions before you operate this product and keep this manual for future reference.

### INSTALLATION

#### 1. Grounding or Polarization

(A) Your product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This 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 should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

(B) Your product may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only 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.

#### 2. Power Sources

Operate your product 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 product dealer or local power company. If your product is intended to operate from battery power, or other sources, refer to the operating instructions.

#### 3. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

#### 4. 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 at plugs, convenience receptacles, and the point where they exit from the product.

#### 5. Ventilation

Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

- Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
- Do not place the product 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.

#### 6. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

### ANTENNA INSTALLATION INSTRUCTIONS

#### 1. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

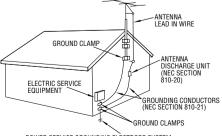
#### 2. Lightning

For added protection for this product 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 product due to lightning and power-line surges.

#### 3. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

#### EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250. PART H)

NEC - NATIONAL ELECTRICAL CODE Download from Www.Somanuals.com. All Manuals Search And Download.

# $4_{\scriptscriptstyle \mathsf{EN}}$

### USE

#### 1. Accessories

#### To avoid personal injury:

- Do not place this product on an unstable cart, stand, tripod, bracket or table. It may fall, causing serious injury to a child or adult, and serious damage to the product.
- Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product.
- Use a mounting accessory recommended by the manufacturer and follow the manufacturer's instructions for any mounting of the product.
- Do not try to roll a cart with small casters across thresholds or deep-pile carpets.

#### 2. Product and Cart Combination

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

#### 3. Water and Moisture

Do not use this product 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.



PORTABLE CART WARNING

#### 4. Object and Liquid Entry

Never push objects of any kind into this product 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 on the product.

#### 5. Attachments

Do not use attachments not recommended by the manufacturer of this product as they may cause hazards.

#### 6. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

#### 7. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

# SERVICING

#### 1. Servicing

If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

#### 2. Damage Requiring Service

Unplug this product 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 liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- **d.** If the product 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 product to its normal operation.
- e. If the product has been dropped or damaged in any way.
- f. When the product exhibits a distinct change in performance—this indicates a need for service.

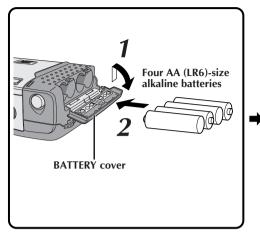
#### 3. Replacement Parts

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.

#### 4. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating condition.

# QUICK START

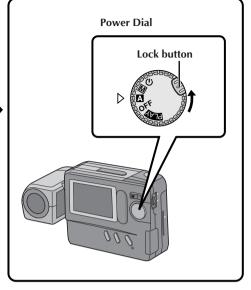


# Load batteries. (🖙 pg. 10)



Slide the BATTERY cover slightly to open.

Insert four AA (LR6)-size batteries as indicated by the orientation marking inside the cover.



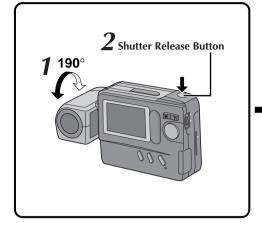
# Turn the power on. (🖙 pg. 16)

- Turn the Power Dial to "⊠".
- Turn while holding the Lock Button depressed.

EN 5

# QUICK START (cont.)

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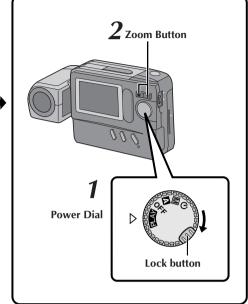
# Shoot an image. (🖙 pg. 18)

1
2

### Tilt the lens and point it at the subject.

#### Press the Shutter Release Button.

• A still image is stored in the camera's memory.



# Play an image. (🖙 pg. 33)

Turn the Power Dial to "PLAY".

- Turn while holding the Lock Button depressed.
  - A still image stored in memory appears.

Select an image with the Zoom Button.

# MAJOR FEATURES

### **10X Zoom for Magnifying Distant Subjects**

When a subject is located too far away to be approached, its image can be enlarged using 10X zoom.

An image shot by zooming has much higher quality than a nonzoomed image enlarged using image processing software on a PC.

## Cordless Image Transfer Using Infrared Communication (IrTran-P Compatible)

IrTran-P is the most advanced infrared communication protocol available today.

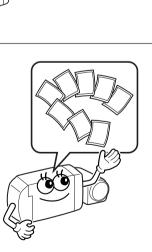
Images can be transferred to another piece of equipment without using a cable, provided that it is compatible with the IrTran-P standard.

### **Compact Flash Card for Shooting More Images**

The Compact Flash card makes it possible to shoot and store images in addition to those that can be stored in the built-in memory.

The extra available images mean you don't have to worry about missing great shots. Also, by using several Compact Flash cards, you can make a library of images archived by category, or you can create personal archives for each person when a single camera is shared by several users.

COMPACTFLASH and **(**) are trademarks of SanDisk Corporation, registered in the U.S.A. and other countries.





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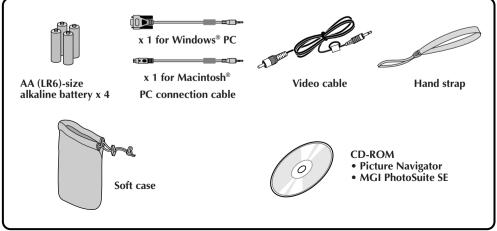
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### **PROVIDED ACCESSORIES**

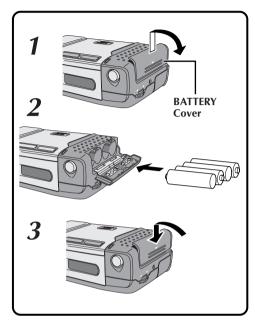


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# $10_{\text{EN}}$

# **Loading Batteries**

Use AA (LR6)-size dry cell batteries.



#### Slide the battery cover (BATTERY) slightly to open.

• The battery cover opens.

Insert batteries as indicated by the orientation marking inside the battery cover.

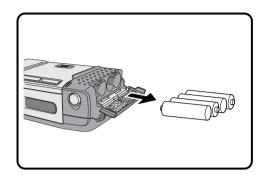
- Close the battery cover and slide it back.
- The battery cover is locked in the closed position.
- Make sure the battery cover is closed securely.

## NOTES:

3

- Commercially-available AA (LR6)-size nickelcadmium (Ni-Cd) or nickel-metal hydride (Ni-MH) batteries can also be used. Ni-Cd or Ni-MH batteries are more economical because they can be recharged and used repeatedly. Be sure to read their instructions.
- Inserting batteries in the incorrect direction may cause them to leak.

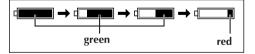
# **Unloading Batteries**



Open the battery cover by performing step 1 of "Loading Batteries" to the left.

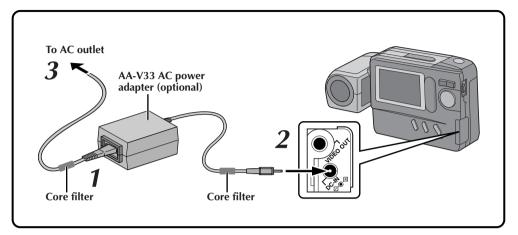
Take out batteries by tilting the camera slightly.

- Do not use manganese batteries as they do not have sufficient energy to power this camera.
- If the batteries are not used for an extended period, remove them from the camera to avoid battery leakage, which can cause malfunctions to occur.
- Battery life varies depending on the temperature of the location where the battery is being used.
- Battery capacity varies considerably depending on the battery's brand.
- Since batteries become very hot after they are exhausted, be careful when replacing them with new ones.
- *Replace the batteries when the battery power* remaining indicator displays the red mark.



# **Household Power Supply**

When using the camera indoors, it is more convenient and economical to power it from a household AC power outlet using an AC power adapter (optional).



# Connect the Power Cord to the AC Power Adapter.

• Make sure connections are secure.

Connect the DC Cord to the DC Input Connector of the Digital Still Camera.

#### Connect the Power Cord to an AC outlet.

• After use, unplug the Power Cord from the AC outlet.

### NOTES:

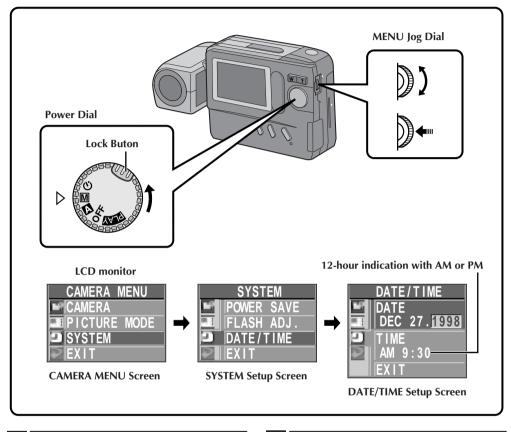
- The optional AA-V33 AC Power Adapter features automatic voltage selection in the AC range from 110 V to 240 V.
- Make sure the Power Cord is securely connected to the AC Power Adapter.
- When using the AC Power Adapter, use only the Power Cord provided with the AC Power Adapter. Use of any other cord may result in shock or fire.
- Connect the Power Cord to the AC Power Adapter before connecting it to an AC outlet. If you plug it into an outlet first, and the Adapter's terminals come in contact with a metal surface or object, short circuit or fire may result.
- Vibration noise can sometimes be heard coming from the inside of the AC Power Adapter. This is normal.
- The AC Power Adapter processes electricity internally, and will become warm during use. This is normal. Make sure to use the AC Power Adapter in well-ventilated areas only.

### **ATTENTION:**

Before detaching the power source, make sure that the camera's power is turned off. Failure to do so may cause the camera's built-in memory to be corrupted.

# $\underset{\text{Date/Time Setting}}{12}$

# By setting the date and time, date/time data can be viewed along with your pictures. Date/time data is also convenient for categorizing pictures later.



Turn the Power Dial, while pressing its Lock Button, to "M" and push the MENU Jog Dial.

• The CAMERA MENU Screen appears.

Rotate the MENU Jog Dial to select "SYSTEM" and push it.

• The SYSTEM Setup Screen appears.

#### Rotate the MENU Jog Dial to select "DATE/ TIME" and push it.

- The DATE/TIME Setup Screen appears.
- If you wish to set only the time without
- changing the date, go to step 5.

3

5

h

### Set the values for the date.

- 1. Rotate the MENU Jog Dial to select the item in the "DATE" section you wish to set and push it.
  - The item color changes to indicate that setting is possible.
- 2. Rotate the MENU Jog Dial until the correct setting appears and push it.
  - Repeat this procedure until you are satisfied with the date settings.
  - If you wish to set only the date without changing the time, go to step **6**.

#### Set the values for the time.

- 1. Rotate the MENU Jog Dial to select the item in the "TIME" section you wish to set and push it.
  - The item color changes to indicate that setting is possible.
- 2. Rotate the MENU Jog Dial until the correct setting appears and push it.
  - When the MENU Jog Dial is pushed after the minutes are set, "EXIT" is selected and clock operation starts from 0 seconds.
  - Repeat this procedure until you are satisfied with the time settings.

# Rotate the MENU Jog Dial to select "EXIT" and push it 3 times.

• The shooting screen reappears and the clock starts functioning.

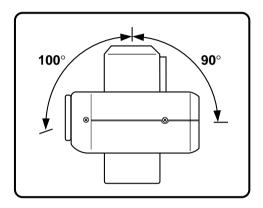
- The date/time setting is backed up by a built-in rechargeable clock battery. Connect the camera to an AC outlet using the AC power adapter for over 24 hours to charge the clock battery.
- The clock will continue to advance except while the minutes are being set. When the minutes are set and the MENU Jog Dial is pushed, the seconds are reset to "0" and clock operation starts.
- Although the date/time which you have set is stored in the camera's built-in memory, the date/ time display will not be combined with the pictures you shoot.

# **BASIC OPERATION**

# $14_{\rm EN}$ Lens Adjustment

To obtain the most stable position for shooting while viewing the LCD monitor, hold the lens so that it forms an angle of 45 degrees in relation to the camera body.

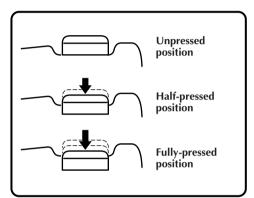
The lens tilts up to 100 degrees forward and 90° backward. You can photograph yourself, while viewing your own image on the LCD monitor (Self-Recording), by tilting the lens 90 degrees backward and taking your picture. This can be used for things such as keeping a photo diary.



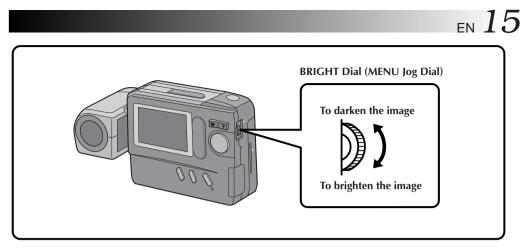
## **Shutter Release Button**

The Shutter Release Button of the camera has two steps. At the first step, when the button is pressed halfway, " $\bowtie$ " is displayed and the camera automatically focuses on the subject. " $\bowtie$ " disappears once the subject has been brought into focus.

The operation of pressing the Shutter Release Button to the first step is called a "half-press". From the "half-pressed" position, press the button all the way to the second step.



- Do not press the Shutter Release Button with your finger raised over the button or do not press it with too strong a force, as this may disrupt the horizontal positioning of the image or cause blurring. When shooting, always half-press the button before pressing it fully to the second step.
- If focusing is performed by pressing the Shutter Release Button frequently during auto focus, the period between when the Shutter Release Button is pressed and when the shutter is released will be shortened.
- While the camera is performing auto focusing with the button half-pressed, the displayed image may freeze temporarily. This is not a malfunction.
- When the Shutter Release Button is released from the half-pressed position and half-pressed again, the camera performs auto focusing again.



## **Brightness Control**

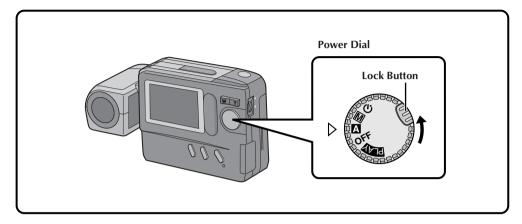
You can adjust the brightness of the LCD monitor by rotating the **BRIGHT** dial, except during manual focusing or menu adjustment.

*To darken the image . . .* Rotate the **BRIGHT** dial upward.

*To brighten the image . . .* Rotate the **BRIGHT** dial downward.

# $16_{\rm EN}$ Shooting Mode Selection

# Turning the Power Dial allows you to select the appropriate shooting mode from among the following: Full Auto mode ( $\square$ ), Manual mode ( $\square$ ) and Self-Timer mode ( $\circlearrowright$ ).



#### " 🖾 " : Full Auto mode

The camera will automatically control all items including exposure, shutter speed, focusing and white balance.

#### "M" : Manual mode

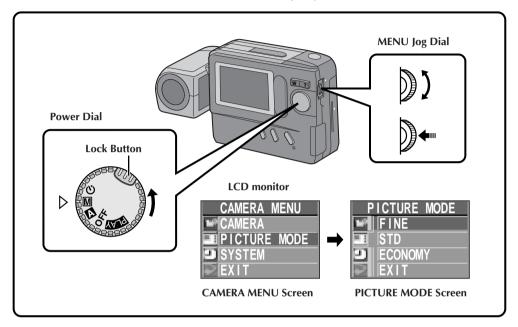
Exposure, shutter speed, focusing and white balance can be controlled manually according to the shooting conditions.

#### " 🕉 " : Self-Timer mode

A 15-second self-timer can be used.

# **Pictrue Mode Selection**

The Picture Quality mode can be selected to best match your needs. Three Picture Quality modes are available: FINE, STD (standard) and ECONOMY (in order of quality).



# Turn the Power Dial, while pressing its Lock Button, to "M" and push the MENU Jog Dial.

• The CAMERA MENU Screen appears.

# Rotate the MENU Jog Dial to select "PICTURE MODE" and push it.

- The PICTURE MODE Screen appears.
- Rotate the MENU Jog Dial to select the "FINE", "STD" or "ECONOMY" Picture Quality mode and push it.
- The Picture Quality mode is set, and the CAMERA MENU Screen appears.

#### Push the MENU Jog Dial.

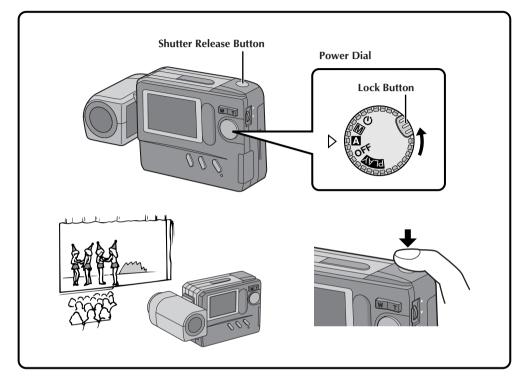
• The shooting screen reappears.

PICTURE QUALITY MODE	Number of Storable Images (in Built-in Memory)
FINE	Approx. 30
STANDARD (STD)	Approx. 50
ECONOMY	Approx. 100

- The number of storable images depends on the selected Picture Quality mode, the conditions under which the camera is used, the temperature during use of the camera and the batteries being used.
- The selected Picture Quality mode is used even when the Power Dial is turned to positions other than "".

# $18_{\rm EN}$ Simple Shooting (Full Auto Shooting)

#### In the Full Auto mode, the camera controls focusing, shutter speed, exposure and white balance automatically to make your shooting simple and easy.



# Turn the Power Dial, while pressing its Lock Button, to "".

• The camera turns on in the Full Auto mode.

#### Train the lens on the subject to be photographed.

• If the low light "告" icon appears on the LCD monitor, use the flash (☞ pg. 22).

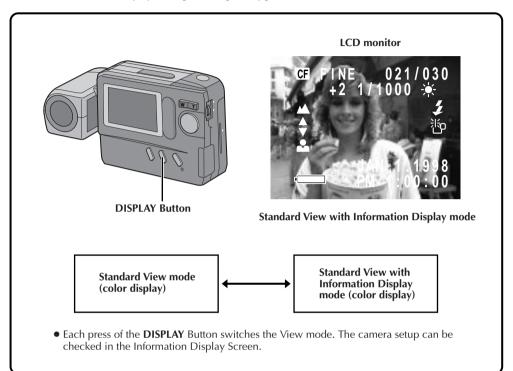
#### Press the Shutter Release Button.

• The image will be stored in the built-in memory or Compact Flash card.

- When the Shutter Release Button is half-pressed, auto focusing is performed.
- After storing images in the built-in memory, it is recommended that you transfer them to a Compact Flash card or PC.

## **Camera Setup Check**

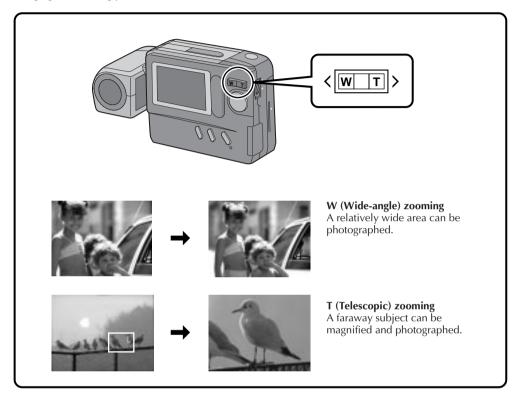
Camera setup items that can be checked include the image storage location (only when stored in a Compact Flash card), Picture Quality mode, number of shots taken, remaining battery power, date and time. For details, see "On-Screen Display During Shooting" (27 pg. 59, 60).



# $\frac{2O_{\rm EN}}{\rm Zoom\ Shooting}$

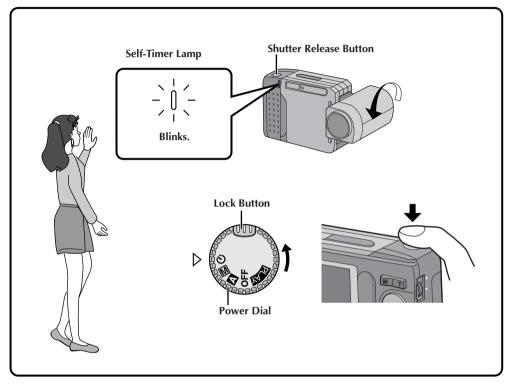
The camera incorporates a 10X zooming function that corresponds to a 43 mm to 430 mm lens of a 35 mm camera. Zooming allows you to shoot wide areas, as well as close-ups of subjects located far away, without changing the shooting position.

**BASIC OPERATION** (cont.)



# **Self-Timer Shooting**

When the Self-Timer is activated, the camera shutter is automatically released 15 seconds later. Once the camera is set, the camera operator can become part of the scene. This function can also be used to prevent blurring caused by subtle hand movements when the Shutter Release Button is pressed.



# Turn the Power Dial, while pressing its Lock Button, to "ல".

- "🕉" appears.
- If the low light "b" icon appears on the LCD monitor, use the flash (IF pg. 22).

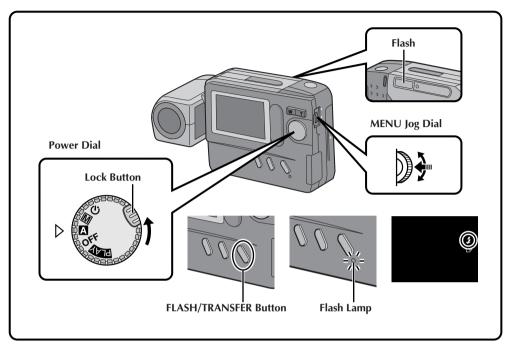
#### Press the Shutter Release Button.

• The Self-Timer Lamp and the on-screen """ icon start blinking, then the shutter is released 15 seconds later.

- The Self-Timer Lamp starts blinking faster when there are 5 seconds or less remaining before the shutter is released.
- If you wish to cancel the Self-Timer half-way, turn the Power Dial to any position except " O".
- Focusing is performed when the Shutter Release Button is pressed.

# 22 EN Flash Shooting

#### Use the flash when the low light "造" icon appears on-screen during indoor shooting or under low light.



#### Make sure that the Power Dial is set to "Δ", "M" or "��", then press the FLASH/TRANSFER Button.

- The Flash Lamp starts blinking and the flash begins charging.
   When charging is complete, the Flash Lamp stops blinking but stays lit, and the flash "
   *'*," icon appears on the LCD monitor.
- If no operation is performed while the flash icon is displayed, the flash icon disappears.
   When this occurs, press the FLASH/ TRANSFER Button again.
- To abort flash shooting before taking a picture, press the FLASH/TRANSFER Button again.

# Aim the flash at the subject and press the Shutter Release Button.

• The flash emits light and the Flash Lamp turns off.

To take another shot with a flash . . .

.... repeat the above steps.

#### Flash Adjustment

The flash intensity can be increased or decreased by 2 steps. For details, see "Flash Adjustment" (CF pg. 31).

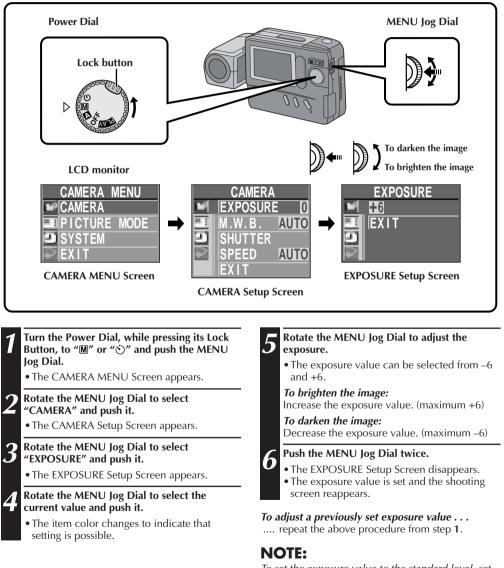
- While the flash is charging, the LCD monitor turns off to save power. This is not a malfunction. Once the flash is charged after a few seconds, the LCD monitor turns on again.
- When the batteries are nearly exhausted during flash shooting, the power may turn off.
- During Self-Recording, the flash is not charged and does not emit light.
- Since flash shooting consumes a large amount of battery power, it is recommended to keep a spare set of batteries nearby when you are planning to take many photographs with the flash.
- When battery power weakens, the time it takes for the Flash Lamp to light steadily increases, and flash charging may be aborted. Before pressing the Shutter Release Button, make sure the Flash Lamp stays lit.

## **Exposure Control**

When the subject appears too dark or too bright on the LCD monitor, it may be necessary to compensate for the ambient brightness. This will make it possible to capture the contours of the dark and bright regions of the image more clearly.

### NOTE:

Use the flash when the low light "造" icon appears.



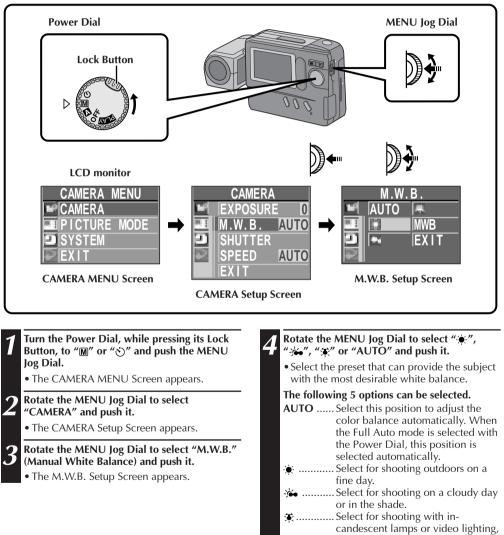
To set the exposure value to the standard level, set the exposure value to "0" or turn the Power Dial to " $\Delta$ ".

# 24 EN White Balance Control

# MANUAL SHOOTING

### Adjusting the White Balance

If the image appears greenish, reddish or bluish, it may be necessary to adjust the white balance of the camera. From the list of presets ("\*"," "\*" or "\*"), select the one that makes the colors in the image look the most natural. If the colors appear only slightly unnatural, select "AUTO".



NOTE:

If a satisfactory white balance cannot be obtained with any of the " $\bigstar$ ", " $\bigstar$ ", " $\bigstar$ " or "AUTO" positions, adjust the white balance manually as indicated in "Adjusting the White Balance Manually" ( $\Box$  pg. 25).

shooting screen reappears.

etc.

Push the MENU Jog Dial twice.

**MWB** ...... Select to photograph the subject

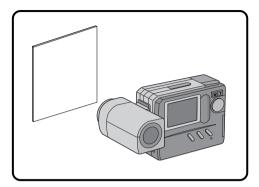
balance (🖙 pg. 25).

• The M.W.B. Setup Screen disappears and the

with a previously adjusted color

### Adjusting the White Balance Manually (M.W.B.)

If none of the preset "\*,", "\*,", "\*," or "AUTO" positions can make the colors in the image look natural, adjust the white balance manually to obtain the most suitable color tones possible.



#### During indoor shooting . . .

.... the subject is exposed to a variety of light sources, including outdoor light, fluorescent light, candle light and so on. As the color temperatures of these light sources vary widely, manual white balance adjustment is recommended if you want to shoot images with the most natural color tones possible.

# When the white balance is adjusted using colored paper . . .

.... in step **2**, you can shoot images with a different color tone than when white paper is used.

#### Example:

When red paper is used: The colors will be blue-greenish. When blue paper is used: The colors will be amberish. When yellow paper is used: The colors will be purplish. In step 4 on the previous page (IF pg. 24), select "MWB".

Place a sheet of white paper about 1 ft. (30 cm) in front of the lens.

- Place it so that the white paper fills the screen.
- **Push the MENU Jog Dial.** 
  - The setting is completed after about 1 second.
  - The setting can be redone by pushing the MENU Jog Dial again.

Rotate the MENU Jog Dial to select "EXIT" and push it 3 times.

• The M.W.B. Setup Screen disappears and the shooting screen reappears.

# To return a manually-set white balance to an automatically-set white balance . . .

.... select "AUTO" in step 4 in the procedure on page 24 or turn the Power Dial to "A".

## NOTE:

The manually-set white balance is held in memory until another balance value is set by selecting "M.W.B.".

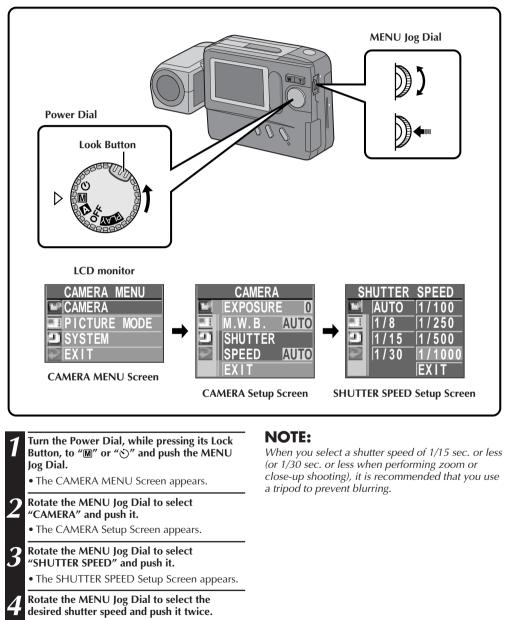
# 26<sub>EN</sub>

# MANUAL SHOOTING (cont.)

# **Shutter Speeds Selection**

## Selecting the Shutter Speed

The shutter speed of the camera can be selected manually, allowing a variety of expression in your pictures.



• The shutter speed is selected and the shooting screen reappears.

#### Download from Www.Somanuals.com. All Manuals Search And Download.

### **Shutter Speeds and Effects**

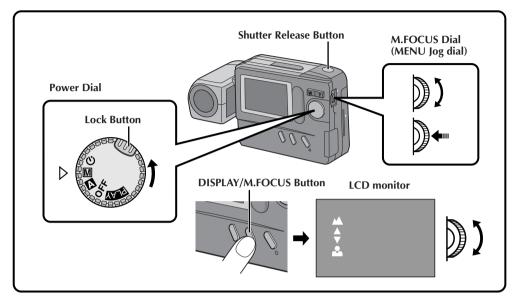
Shutter Speed	Effect
AUTO	Automatically selects a shutter speed according to the subject lighting.
1/8 (sec.)	Suitable for shooting night views. Lights from moving cars, etc. are photographed with motion streaks. Use a tripod to avoid blurring caused by subtle hand movements.
1/15 (sec.)	Suitable for shooting in darkly lit environments. A slow shutter speed can collect more light in the camera than usual, and shoot bright, clear images of hard-to-shoot subjects in low light. Use a tripod to avoid blurring caused by subtle hand movements.
1/30 (sec.)	Suitable for shooting in dimly lit environments (eg. rainy day). A slow shutter speed can collect more light in the camera than usual, and shoot bright, clear images of hard-to-shoot subjects in low light.
1/100 (sec.)	Suitable for shooting under outdoor lighting conditions such as a cloudy day.
1/250 (sec.)	Suitable for shooting under outdoor lighting conditions such as a sunny day. This shutter speed is not affected by subtle hand movements.
1/500 (sec.)	Suitable for shooting under outdoor lighting conditions such as by the seashore on a sunny day. This shutter speed is not affected by subtle hand movements.
1/1000 (sec.)	Allows fast-moving images to be captured one frame at a time. Use this shutter speed under good lighting conditions.

### NOTE:

If a high shutter speed is used under fluorescent lighting, hunting may occur in the image or the image color may be changed. This is not a malfunction.

# 28 EN Manual Focusing

# In contrast to auto focusing, where the camera automatically focuses on the subject, manual focusing can be used when you want to intentionally change the point of focus in an image.



Turn the Power Dial, while pressing its Lock Button, to "M" or "ல".

# Press and hold the DISPLAY/M.FOCUS Button for about 2 seconds.

• "▲" and "ዹ" appear, and the focus can be adjusted manually.

# Rotate the M.FOCUS Dial (MENU Jog Dial) to focus the subject.

#### To focus on a farther subject . . .

3

Rotate the M.FOCUS Dial (MENU Jog Dial) upward. When the focus level cannot be adjusted any further, " $\blacktriangle$ " starts to blink.

#### To focus on a nearer subject . . .

Rotate the M.FOCUS Dial (MENU Jog Dial) downward. When the focus level cannot be adjusted any closer, "A" starts to blink.

 2 focusing speeds are available. They can be selected depending on how fast the M.FOCUS Dial (MENU Jog Dial) is rotated. If the M.FOCUS Dial (MENU Jog Dial) is rotated quickly, the focus changes drastically. If the M.FOCUS Dial (MENU Jog Dial) is rotated slowly, the focus changes gradually. Press the Shutter Release Button to shoot the image.

### NOTE:

Manual focusing is recommended in the following cases:

- When shooting a subject with low contrast (variation in brightness/darkness), for example a flat wall or blue sky.
- When there is an obstacle such as a mesh between the camera and the subject.
- When the subject consists of a regular arrangement of fine patterns or similar patterns.
- When shooting under a flickering light source such as a fluorescent lamp.

#### To use auto focusing in the Manual mode $("_{\overline{M}}") \dots$

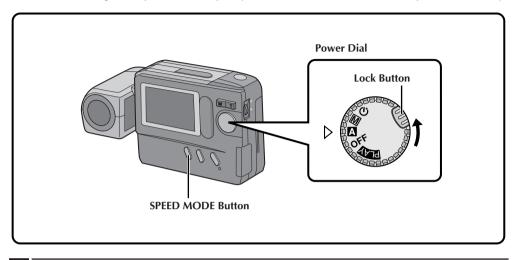
.... press and hold the **DISPLAY/M.FOCUS** Button for about 2 seconds so that "A" and "A" disappear.

#### Minimum subject distance:

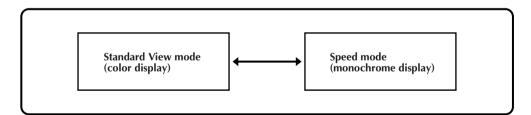
The closest that this camera can focus on a subject, with the zoom set all the way to "W", is 3 inches (7 cm).

## **View Mode Selection**

The Standard View mode displays a color image on the LCD monitor, while the Speed mode displays a black-and-white image, but updates it more quickly to show the actual motion of the subject more faithfully.



Make sure that the Power Dial is set to "M", "A" or "☉", then press the SPEED MODE Button.
Each press of the SPEED MODE Button switches the screen as shown below.



### Standard View mode

A color image is displayed on the LCD monitor and is updated about 4 times a second. This mode is suitable for shooting stationary subjects.

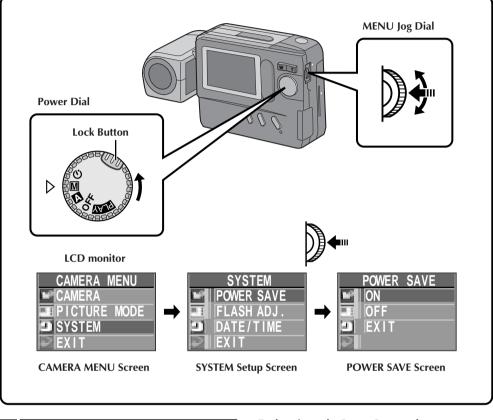
### Speed mode

A black-and-white image is displayed on the LCD monitor and is updated about 15 times a second. This mode is suitable for shooting moving subjects.

- The image is stored in color.
- The on-screen display is not available.
- When the shutter speed is set to 1/8 sec. or 1/15 sec., the Quick View mode is not available.

# 30<sub>EN</sub> Power Save Mode

# The Power Save mode switches the camera automatically off when no operation has been performed for more than 2 minutes.



Turn the Power Dial, while pressing its Lock Button, to "M" or "S" and push the MENU Jog Dial.
The CAMERA MENU Screen appears.
Rotate the MENU Jog Dial to select "SYSTEM" and push it.
The SYSTEM Setup Screen appears.
Rotate the MENU Jog Dial to select "POWER SAVE" and push it.
The POWER SAVE Screen appears.

# Rotate the MENU Jog Dial to select "ON" and push it twice.

• The shooting screen reappears and the Power Save mode is activated.

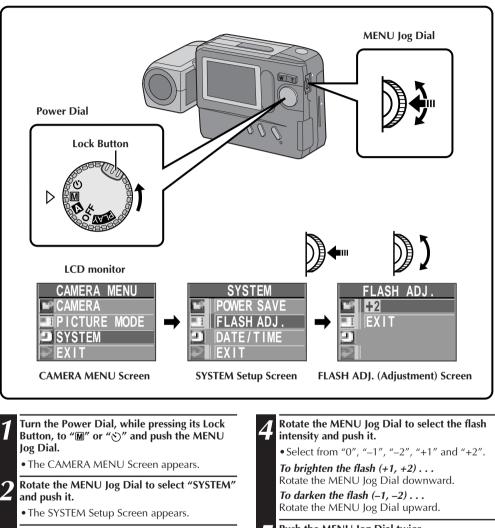
#### To deactivate the Power Save mode . . .

.... select "OFF" in step 4. When the Power Dial is set to "A", "M", "O" or "PAY", the camera power will stay on, even when no operations are performed.

- To switch the camera on again after it has been switched off by the Power Save mode, turn the Power Dial to "OFF", wait for more than 1 second, then turn it to " ▲", " M", " <sup>(\*)</sup>" or " □▲\".
- Do not forget to switch the camera off when not in use, so that the batteries do not become prematurely exhausted.
- The Power Save mode is factory-preset to "ON".

# **Flash Adjustment**

If an image shot with the flash is too dark or too bright, adjust the flash intensity as described below.



# Rotate the MENU Jog Dial to select "FLASH ADJ." and push it.

• The FLASH ADJ. (Adjustment) Screen appears.

#### Push the MENU Jog Dial twice.

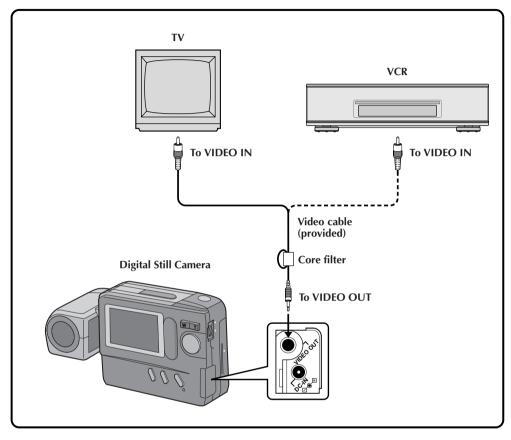
• The flash adjustment value is entered and the shooting screen reappears.

- Aim the flash at the subject.
- Even when the flash intensity is increased, the subject may not be properly lit, depending on the shooting conditions.

# $32_{\rm EN}$ Playback Through a TV Monitor or VCR

By connecting the digital still camera to a TV monitor or VCR and starting playback, images can be monitored on the TV screen or recorded onto a videotape.

PLAYBA



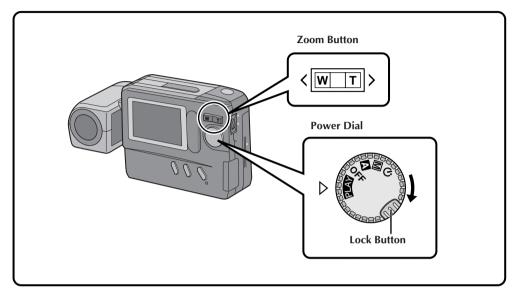
- For connections to a TV monitor or VCR, refer to their instruction manuals.
- The playback image can also be viewed on the LCD monitor of the camera without connecting it to a TV monitor or VCR.
- During playback on a TV monitor, indications displayed in any of the shooting modes do not appear.

# **Normal Playback**

Images shot with the camera are automatically numbered, then stored in numerical order. You can view the stored images, one at a time, much like flipping through a photo album.

# **Auto Playback**

You can run through all the images stored in memory automatically. This is like a regular slide-show.



# Turn the Power Dial, while pressing its Lock Button, to "FLAN".

- The most recently photographed image is displayed.
- If there are no images in memory, a blue background is displayed on the screen.
- When there is more than one image in memory:

#### Press the Zoom Button to view other images.

"T" : Displays the next image.

"W" : Displays the previous image.

### NOTE:

Even if you shoot a new image after playing back a low-numbered one, this will not overwrite an existing image, because new images are automatically stored after the last-recorded one.

# Turn the Power Dial, while pressing its Lock Button, to "I and ".

• The most recently photographed image is displayed.

**2** Press and hold the Zoom Button for more than 3 seconds.

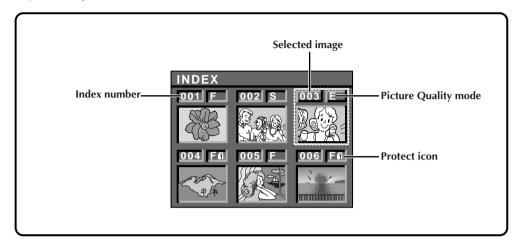
"T" : Displays images in ascending order. "W" : Displays images in descending order.

#### Press the Zoom Button to stop Auto Playback.

• Auto Playback can be stopped by pressing either "T" or "W".

# $34_{\rm EN}$ INDEX Screen

The images you shot can be displayed together with their index information. Convenient for checking images shot beforehand, the INDEX Screen also shows the Picture Quality mode as well as which images are protected against accidental erasure.



#### 001 to 999: Index number

Since this camera can store up to 999 images using a Compact Flash card, the index numbers range from 001 to 999. For example, when 10 images are stored (index number: 001 to 010), if three images with index numbers 002, 004 and 006 are deleted from memory, the remaining images are automatically moved up to fill any gaps in the numerical sequence. Therefore, the number of remaining images is 7, and the new index numbers range from 001 to 007.

When images are stored in both the built-in memory and a Compact Flash card installed in the camera, their index images and numbers are different from those stored using only the built-in memory.

#### F/S/E: Picture Quality mode

Displays the Picture Quality mode of the stored image. There are 3 modes available: Fine ("F"), Standard ("S") and Economy ("E") (in order of quality).

PLAYBACK (cont

#### Protect icon

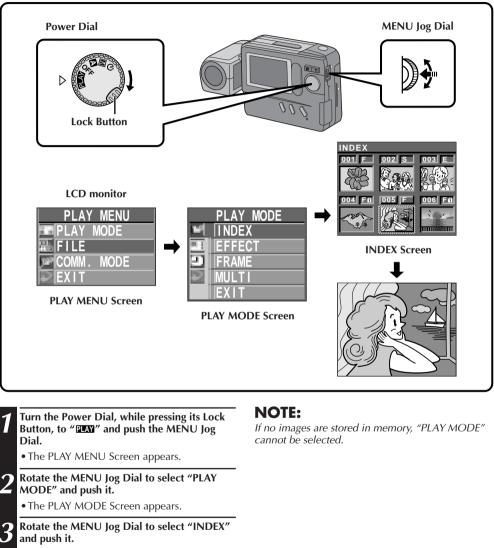
When an image is protected against its accidental erasure, a padlock mark appears next to it, and that image cannot be deleted.

#### Selected Image

An image is framed like this when it is selected. Rotate the MENU Jog Dial to move the green frame to the desired image.

# **Index Playback**

You can view all images stored in memory six at a time. Use this mode when looking for a image you wish to view.



• The INDEX Screen appears.

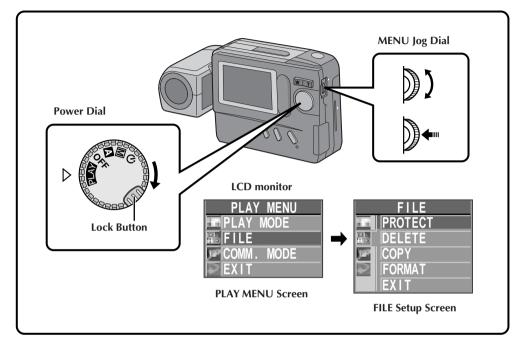
Rotate the MENU Jog Dial to select the image to be displayed and push it.

• The image selected in the INDEX Screen is displayed.

# 36<sub>EN</sub>

# **Protecting Images**

The Protect mode helps prevent the accidental erasure of images. Put a padlock mark next to the desired image, and that image cannot be deleted.



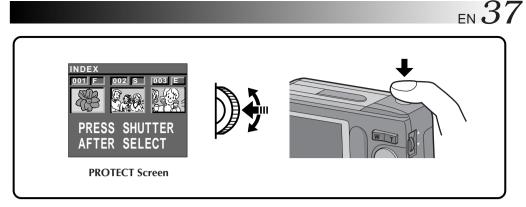
- Turn the Power Dial, while pressing its Lock Button, to "IM" and push the MENU Jog Dial.
  - The PLAY MENU Screen appears.
- **2** Rotate the MENU Jog Dial to select "FILE" and push it.
  - The FILE Setup Screen appears.

Rotate the MENU Jog Dial to select "PROTECT" and push it.

• The PROTECT Screen appears.

### NOTE:

When the camera's memory is initialized, even protected images are deleted. If you do not want to lose important images, transfer them to a PC and save them.



## Rotate the MENU Jog Dial to select the image to be protected (against accidental erasure) and push it

- A padlock mark appears on the selected image to indicate that it is protected.
- Protect each image that you do not want to delete by accident.

#### Press the Shutter Release Button.

5

6

#### Push the MENU Jog Dial twice.

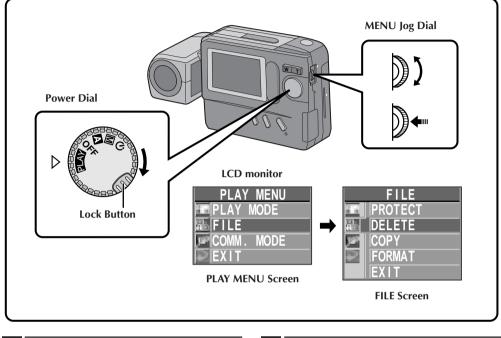
• The screen returns to the normal playback screen.

#### To remove protection . . .

Perform steps 1 through 3, then rotate the MENU Jog Dial to select the desired padlocked image and push it. The padlock mark located above the image disappears and the image is no longer protected. When finished unprotecting images, perform steps 5 and 6.

### 38<sub>EN</sub> Deleting Images

#### Previously shot images can be deleted either one at a time or all at once.

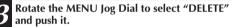


#### Turn the Power Dial, while pressing its Lock Button, to "I''' and push the MENU Jog Dial.

• The PLAY MENU Screen appears.

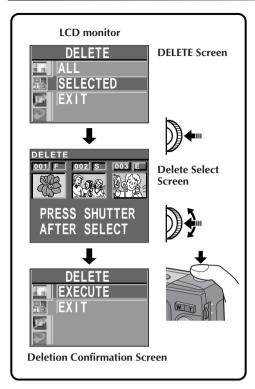
Rotate the MENU Jog Dial to select "FILE" and push it.

• The FILE Screen appears.



• The DELETE Screen appears.

en 39



## To select an image by browsing images stored in memory . . .

Before doing the following, perform steps 1 through 3 ( $\square$  pg. 38).

4

#### Rotate the MENU Jog Dial to select "SELECTED" and push it.

• The Delete Select Screen appears.

### Rotate the MENU Jog Dial to select an image to be deleted, and push it.

- "x" appears above the selected image.
- To abort deletion of a selected image, push the MENU Jog Dial again. The "x" mark indicating that the image is to be deleted disappears.

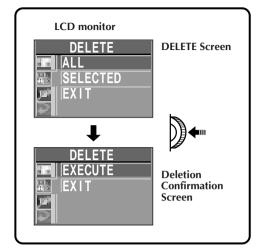


#### Press the Shutter Release Button.

The Deletion Confirmation Screen appears.
If you want to abort deletion now, rotate the MENU Jog Dial to select "EXIT" and push it 4 times.

#### Rotate the MENU Jog Dial to select "EXECUTE" and push it.

• The selected images are deleted and the normal playback screen reappears.



#### To delete all images . . .

Before doing the following, perform steps 1 through 3 (IIF pg. 38).

**4** Rotate the MENU Jog Dial to select "ALL" and push it.

• The Deletion Confirmation Screen appears.

**5** Rotate the MENU Jog Dial to select "EX-ECUTE" and push it.

- "DELETING IN PROGRESS" is displayed until all images have been deleted, which can take from a few seconds to several minutes, depending on the number of images stored.
- If "CONTAINS PROTECTED IMAGES" is displayed, only the unprotected images will be deleted.
- When you also want to delete protected images, unprotect them by referring to "To remove protection" (IP pg. 37) before deleting all the images.
- If you do not want to delete the images, rotate the MENU Jog Dial to "EXIT" and push it 4 times to return to the normal playback screen.

### CAUTION

While protecting/unprotecting images, never remove the Compact Flash card or disconnect power, as this may cause the camera's built-in memory to be corrupted. Also, be sure to use the optional AC power adapter, as a malfunction may occur if the batteries become exhausted halfway through the operation.

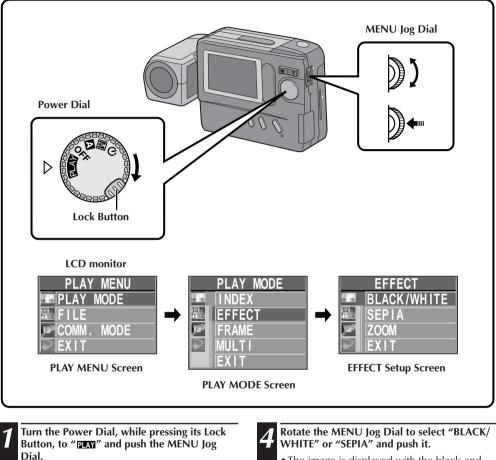
### NOTES:

- A deleted image is lost forever. To prevent accidental deletion of important images, it is recommended that you protect them or copy them to your PC.
- If no images are stored in memory, "DELETE" cannot be selected.

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### 40<sub>EN</sub> Applying Sepia/Black-and-White Effects

A sepia or black-and-white effect can be applied to a previously shot image.



- The image is displayed with the black-andwhite or sepia effect applied to it.
  - The effect is applied to other displayed images until it is canceled.

PLAYBACK (cont

### To cancel the effect . . .

 $\ldots$  press the  $\ensuremath{\text{CLEAR}}$  Button.

Rotate the MENU Jog Dial to select "EFFECT" and push it.

Rotate the MENU Jog Dial to select "PLAY

• The EFFECT Setup Screen appears.

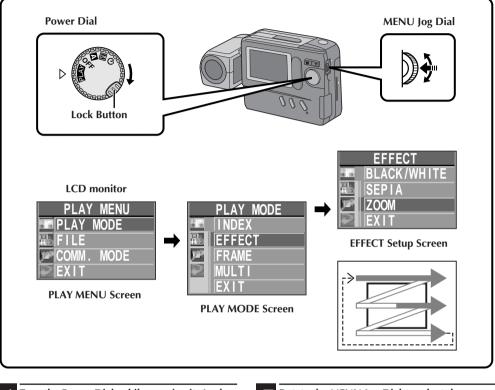
• The PLAY MENU Screen appears.

• The PLAY MODE Screen appears.

MODE" and push it.

### Magnifying the Playback Image (Zoom)

The zoom-in effect magnifies a selected area of image.



- Turn the Power Dial, while pressing its Lock Button, to "PLAY" and push the MENU Jog Dial.
  The PLAY MENU Screen appears.
  Rotate the MENU Jog Dial to select "PLAY
  - MODE" and push it.
  - The PLAY MODE Screen appears.

3

- Rotate the MENU Jog Dial to select "EFFECT" and push it.
- The EFFECT Setup Screen appears.
- Rotate the MENU Jog Dial to select "ZOOM" and push it.

### **5** Rotate the MENU Jog Dial to select the area to be magnified, and push it.

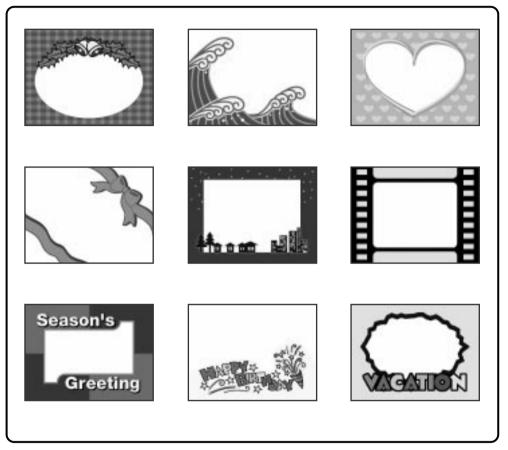
- The selected image is split into 9 areas, from which you can select the area to be magnified. By rotating the MENU Jog Dial, you can reach the desired area as indicated above.
- The effect is applied to other displayed images until it is canceled.

#### *To cancel the effect . . .* .... press the **CLEAR** Button.

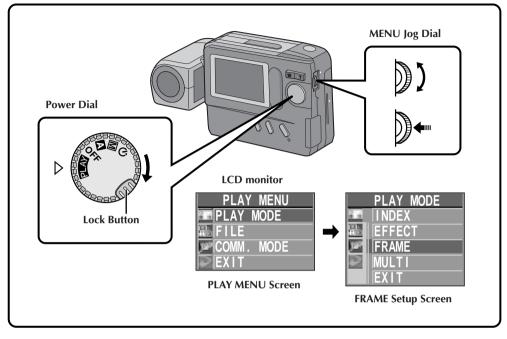
# $42_{\rm EN}$ Types of Frames

PLAYBACK (cont.)

#### Preset frames (9 types)



### Framing an Image



#### Turn the Power Dial, while pressing its Lock Button, to """" and push the MENU Jog Dial.

- The PLAY MENU Screen appears.
- **2** Rotate the MENU Jog Dial to select "PLAY MODE" and push it.
  - The PLAY MODE Screen appears.

3

Λ

- Rotate the MENU Jog Dial to select "FRAME" and push it.
  - The FRAME Setup Screen appears.

### Rotate the MENU Jog Dial to select a frame and push it.

• The selected image is displayed inside the frame.

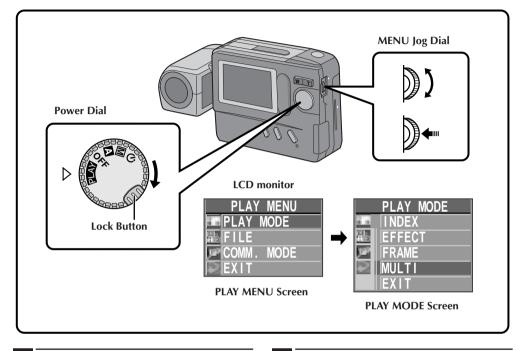
#### NOTE:

Frames can also be used in 4-split or 16-split screens (I pg. 44).

#### *To remove a frame . . .* .... press the **CLEAR** Button.

### 44 EN Multi-Image Screen

### Multi-image screens that can be created are 4-split screens composed of the same image, 16-split screens composed of the same image and 4-split screens composed of different, user-selected images.



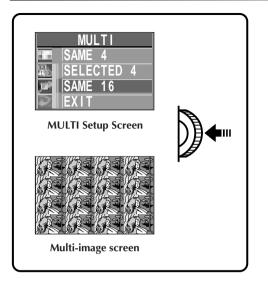
#### Turn the Power Dial, while pressing its Lock Button, to select "PLN" and push the MENU Jog Dial.

- The PLAY MENU Screen appears.
- Rotate the MENU Jog Dial to select "PLAY MODE" and push it.
  - The PLAY MODE Screen appears.

## **3** Rotate the MENU Jog Dial to select "MULTI" and push it.

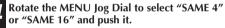
- The MULTI Setup Screen appears.
- While a multi-image screen is being displayed, it is impossible to select the MULTI Setup Screen from the PLAY MODE Screen. If you wish to select the MULTI Setup Screen, first press the **CLEAR** Button to return to the normal playback screen, then perform steps 1 through 3.

## en 45



## To Create a Multi-Image Screen Using the Same Image

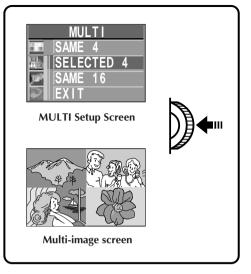
Before doing the following, perform steps 1 through 3 ( $\mathbb{LF}$  pg. 44).



• A multi-image screen displaying 4 or 16 of the same image appears.

#### NOTES:

- By printing a multi-image screen to a printer that supports sticker sheets, you can create stickers of any image you like. For details, read the instruction manual of your printer.
- To create a multi-image screen with frames, first select a frame, referring to "Framing an image" (CF pg. 43), then make a multi-image screen.



## To Create a Multi-Image Screen Using Selected Images

Before doing the following, perform steps 1 through 3 ( $\square$  pg. 44).

Rotate the MENU Jog Dial to select "SELECTED 4" and push it.
The MULTI Index Screen appears.
Rotate the MENU Jog Dial to select an image and push it.
"\sqrt{"} appears on the selected image.
To cancel the selection of an image ... ... rotate the MENU Jog Dial to select the image and push it. "\sqrt{"} disappears.

#### Repeat step 5 for all 4 images to be selected.

- The selected images are displayed in the order they were selected in steps **5** and **6**.
- A multi-image screen of the selected images appears.

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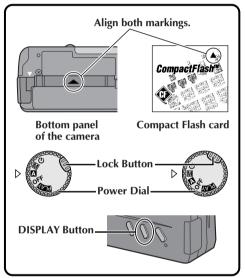
### $46_{\text{EN}}$ **Compact Flash Card Operation**

### Installing a Compact Flash Card

A Compact Flash card increases the number images that can be stored.

### NOTES:

- Switch the camera off with the Power Dial before installing a Compact Flash card.
- Point the 
   <u>marking</u> on the bottom of the camera and the one on the Compact Flash card upward. then point the **A** marking on the Compact Flash card at the camera and install straight in.



#### Install the Compact Flash card in the slot. • Insert the Compact Flash card so that it fits securely in position. The following steps 2 and 3 are intended to check that the Compact Flash card is installed securely. Turn the Power Dial, while pressing its Lock Button, to "A" or "M". Press the DISPLAY Button. • The Information Display Screen appears. • If the G (Compact Flash card) icon appears on the top left of the screen, images shot hereafter will be stored in the Compact Flash card. NOTE: If the G icon does not appear on the top left of the

screen after the Compact Flash card has been installed.

install it again.

#### memory even after it has been removed from the camera, it can also be used as a medium for storing images.

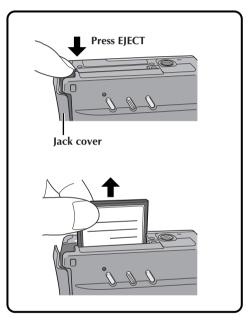
### **NOTES:**

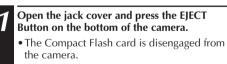
Switch the camera off with the Power Dial.

**Removing a Compact Flash Card** As a Compact Flash card retains images in its

• Do not remove the Compact Flash card while the camera is turned on, as this may cause the Compact Flash card or the camera's built-in memory to be corrupted.

ADVANCED OPERATION







Pull out the Compact Flash card.

### NOTES:

- Be sure to use only compact Flah cards bearing the CF Trademark ().
- Some brands of Compact Flash cards are not compatible with this camera. Before purchasing a Compact Flash card, consult its manufacturer or dealer.

switch the camera power off, remove the card and Download from Www.Somanuals.com. All Manuals Search And Download.

Turn the Power Dial, while pressing its Lock

### Initializing the Storage Media

Since the camera is a microcomputer-controlled device, external noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. For example, when a still image you shot is stored in memory, the above may cause the following: Although the remaining number of shots indicator shows that shooting is possible, a still image cannot be stored in memory after shooting.

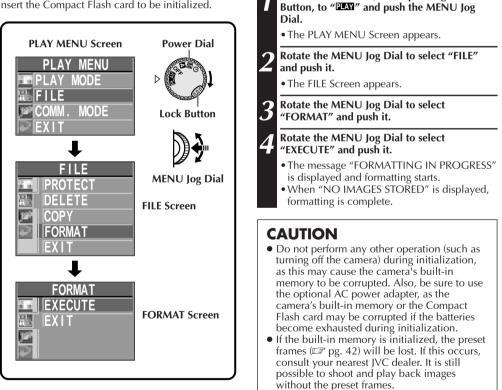
In such a case, initialize the memory by following steps 1 through 4 below. Please note that initialization deletes all the still images (including ones for which you performed the "Protect" function) stored in memory. If you wish to keep any of the still images that are stored in memory, before initialization first transfer them to a PC and save them. If image data is corrupt, transfer is impossible. Normally, it is not necessary to initialize a Compact Flash card. However, if a malfunction occurs (for example, if the image you shot cannot be played back), then initialize the Compact Flash card.

### NOTE:

Switch the camera off with the Power Dial before installing a Compact Flash card.

#### Preparation

Insert the Compact Flash card to be initialized.



### NOTES:

- After initializing, all images stored in the compact flash card, including those which have been protected, are cleared. Be sure to transfer important images to a PC before proceeding with initialization. However, if image data is corrupt, it cannot be transferred to a PC.
- Initializing a Compact Flash card does not clear images stored in the camera's built-in memory.
- If the message "PLEASE INITIALIZE" appears, the built-in memory needs to be initialized. Without inserting a Compact Flash card, perform steps 1 through 4.
- When a Compact Flash card is not installed, "FORMAT" normally cannot be selected. If it can be selected, then the built-in memory is malfunctioning. When this occurs, make a back-up of the stored image data

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### Storing Images in a Compact Flash Card

The number of images that can be shot can be greatly increased when a Compact Flash card is used in addition to the built-in memory. By preparing several cards, a single camera can be shared by several people, or they can be used to make a library of images sorted by category.

### NOTE:

Switch the camera off with the Power Dial before installing or removing a Compact Flash card.



#### Install the Compact Flash card in the camera.

Turn the Power Dial, while pressing its Lock Button, to select "☎", "₪" or "♡".

- Press the **DISPLAY** Button to make sure the **G** (Compact Flash card) icon appears in the Information Display Screen.
- **3** Shoot images.
  - The images are automatically stored in the Compact Flash card.

### NOTES:

- To store images in the camera's built-in memory, switch off the camera and remove the Compact Flash card from the camera. See "Removing a Compact Flash Card" (27 pg. 46).
- To prevent the accidental erasure of images stored in a Compact Flash card, transfer them to a Windows<sup>®</sup> PC or Macintosh<sup>®</sup> and save them. We also recommend that you regularly copy images stored in a Compact Flash card to the camera's built-in memory during shooting.

### ADVANCED OPERATION (cont.)

### Playing Back Images Stored in a Compact Flash Card

### NOTE:

Switch the camera off with the Power Dial before installing or remoing a Compact Flash card.



Install the Compact Flash card in the camera.

Turn the Power Dial, while pressing its Lock Button, to select "PLAY".

- Press the **DISPLAY** Button to make sure the **G** (Compact Flash card) icon appears in the Information Display Screen.
- **Play back images.** 
  - The images stored in the Compact Flash card can be played back.

### NOTE:

To play back images stored in the camera's built-in memory, switch off the camera and remove the Compact Flash card from the camera. See "Removing a Compact Flash Card" (🖙 pg. 46).

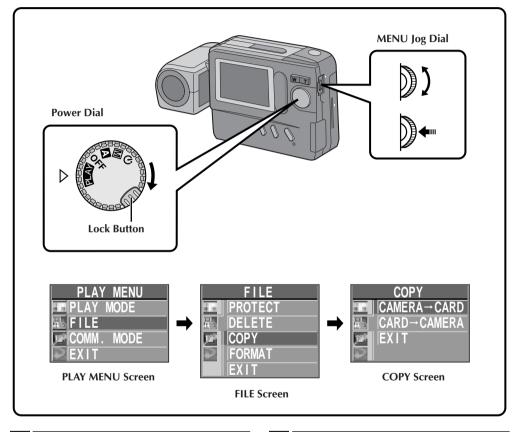
### Copying Images Between the Built-in Memory and a Compact Flash Card

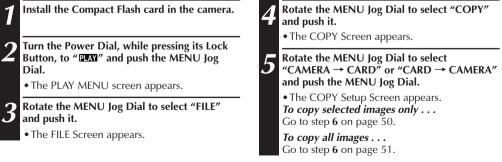
Images can be copied from the built-in memory to a compact flash card or vice versa. This function can be used to store especially important images separately or to exchange images.

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#### NOTE:

Switch the camera off with the Power Dial before installing or removing a Compact Flash card.





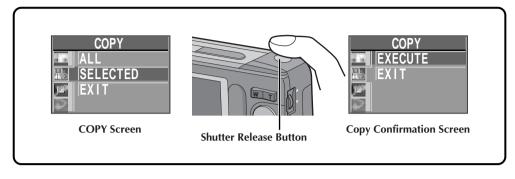
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### To Copy Selected Images Only

Before doing the following, perform steps 1 through 5 on page 49.



#### Rotate the MENU Jog Dial to select "SELECTED" and push it.

• The INDEX Screen appears.

### Rotate the MENU Jog Dial to select an image to be copied and push it.

- " $\sqrt{}$ " appears on the selected image.
- Repeat this procedure until every image you wish to copy is selected.

**8** After selecting all the images to be copied, press the Shutter Release Button.

• The Copy Confirmation Screen appears.

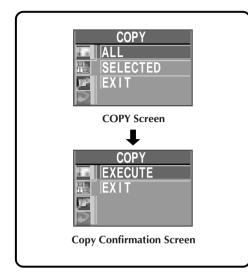


Rotate the MENU Jog Dial to select "EXECUTE" and push it.

• The message "IMAGE COPYING IN PROGRESS" is displayed, and copying starts. When the message disappears, copying is complete.

#### **To Copy All Images**

Before doing the following, perform steps **1** through **5** on page 49.



**6** Rotate the MENU Jog Dial to select "ALL" and push it.

- The Copy Confirmation Screen appears.
- Rotate the MENU Jog Dial to select "EXECUTE" and push it.
  - The message "IMAGE COPYING IN PROGRESS" is displayed, and copying starts. When the message disappears, copying is complete.

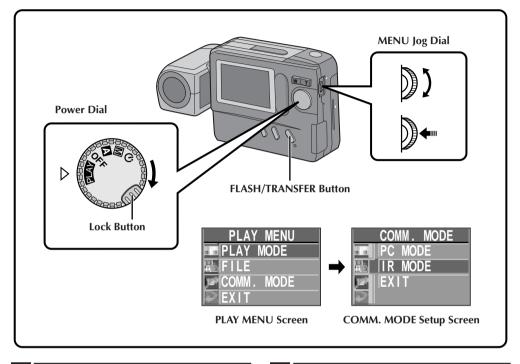
#### **NOTES:**

- While copying, never disconnect the power supply or remove the Compact Flash card, as this may cause the stored images to be erased or the camera's built-in memory to be corrupted. Also, be sure to use the optional AC power adapter, as the camera's built-in memory or the Compact Flash card may be corrupted if the batteries become exhausted during the copy operation.
- If 5 images stored in a Compact Flash card are copied to the built-in memory, which contains 10 stored images, the index numbers of the copied images will be from 11 to 15.

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### Image Copy Using Infrared Communication [IrTran-P]

Image data can be copied between this camera and another piece of IrDA (IrTran-P) infrared communication compatible equipment, regardless of its manufacturer.



Turn the Power Dial, while pressing its Lock Button, to "PTM" and push the MENU Jog Dial.

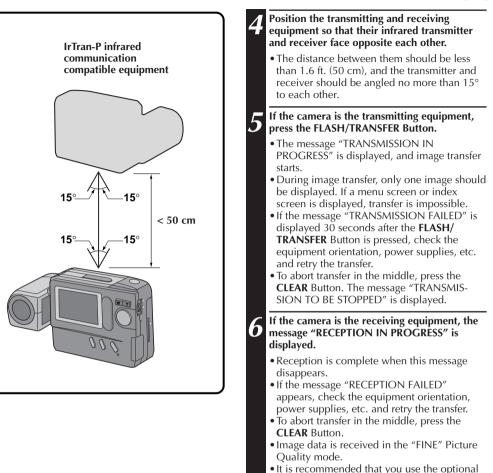
• The PLAY MENU Screen appears.

## Rotate the MENU Jog Dial to select "COMM. MODE" and push it.

• The COMM. MODE Setup Screen appears.

Rotate the MENU Jog Dial to select "IR MODE" and push it twice.

• The normal playback screen reappears.



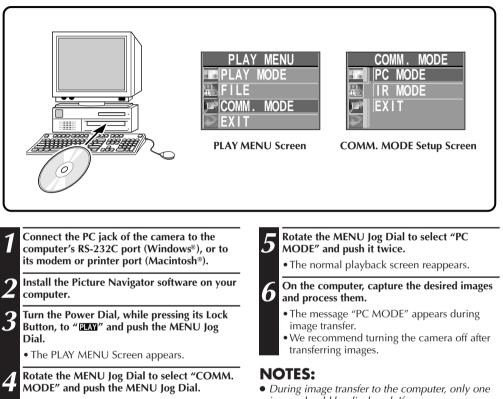
AC power adapter during data transfer.

# $54_{\rm EN}$ PC Connection Operation

### PC Connection Operation

#### Picture Navigator Software (Provided)

Image data in the camera can be sent to the RS-232C port of a Windows® PC or to the modem port of a Macintosh® or Mac OS-compatible computer.

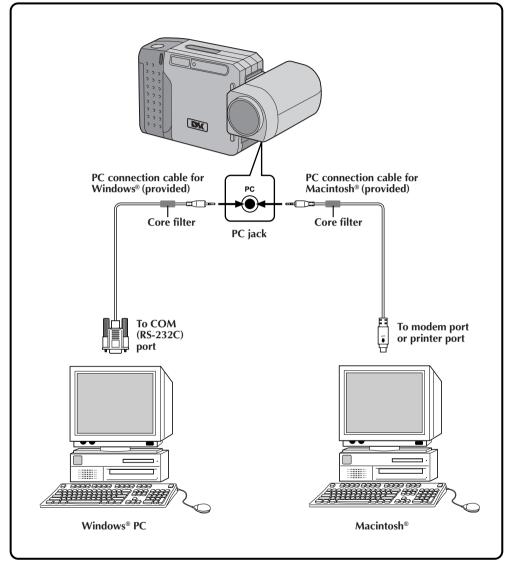


• The COMM. MODE Setup Screen appears.

# During image transfer to the computer, only one image should be displayed. If a menu screen or index screen is displayed, transfer is impossible. Before transferring image data from the computer

 Before transferring image data from the computer to this camera, be sure to select the "FINE" Picture Quality mode, referring to "Picture Mode Selection" (II) pg. 17).

#### **Connection with PC**

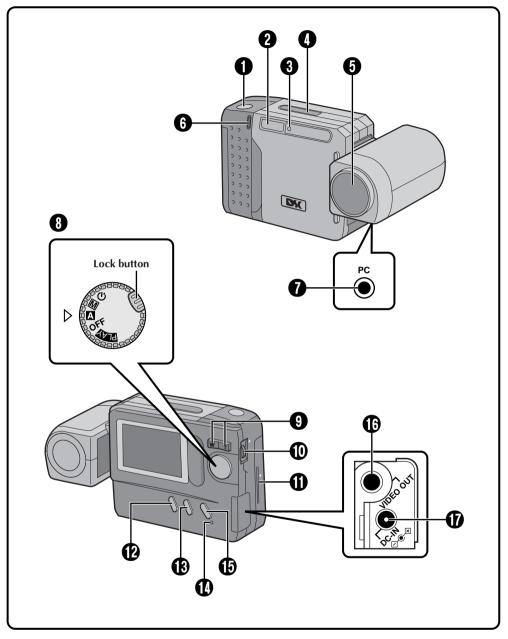


#### **NOTES:**

- Use the AC power adapter when connecting to the computer.
- Be sure to read the instruction manuals of the provided "Picture Navigator" software and your computer.

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### CONTROLS, CONNECTORS AND INDICATORS



## EN 57

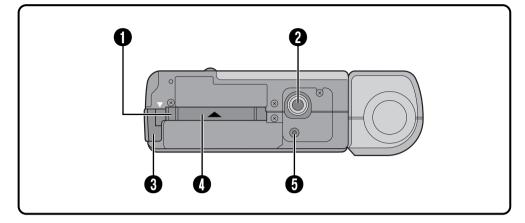
### **Front View**

<b>1</b> Shutter Release Button IF pg. 1 Press when you wish to shoot.	4
2 Flash IF pg. 2 Lights when shooting under low light or back light conditions.	2
③ Flash Sensor	2
Infrared Beam Sensor IF pg. 5 Transmits/receives image data via infrared beam.	
6 Lens IF pg. 1 Train on the subject.	4
6 Self-Timer Lamp IF pg. 2 Blinks when the Self-Timer is activated.	21
PC Jack IF pg. 5 Connect to the RS-232C port (Windows®) or to the modem or printer port (Macintosh®) of your computer.	5

### **Rear View**

8	<b>Power Dial I</b> pg. 16
	Turn while pressing its Lock Button to
	select a shooting mode or the playback
	mode.
	<b>Zoom Button</b> 🖙 pg. 20
	Press to zoom during shooting or to switch
	to the next/previous image during play-
_	back.
	MENU/BRIGHT/M.FOCUS
	<b>Jog Dial I</b> pg. 12, 15, 28
	Turn to adjust settings for shooting or playback, to adjust the brightness of the
	LCD monitor or to adjust the focus.
-	<b>BATTERY Cover</b> 🖙 pg. 10
	Open to replace the batteries.
	SPEED MODE Button 🖙 pg. 29
	Press to cycle through the Standard View mode or the Speed mode while shooting.
	<b>CLEAR Button C</b> pg. 40
	Press to clear an effect.
_	DISPLAY/M.FOCUS
	Button 🖙 pg. 19, 28
	Press to make the on-screen display
	appear/disappear, or to focus on a subject
	manually.
0	Flash Lamp 🖙 pg. 22
	Lights when the flash is ready.
Ð	<b>FLASH/TRANSFER Button C</b> pg. 22, 52
	Press to transfer images by infrared beam
	or to charge the flash.
ß	VIDEO OUT Jack IF pg. 32
	Connect to a VCR, TV monitor or video.
Ð	<b>DC-IN Jack I</b> pg. 11
	Connect to the optional AC power adapter.

## $58_{\text{EN}}$ CONTROLS, CONNECTORS AND INDICATORS (cont.)



#### **Bottom View**

● EJECT Button ...... I pg. 46 Press to eject the optional Compact Flash card.

#### 2 Tripod Mounting Socket

When attaching a tripod, insert the threaded section of the tripod in this hole and turn to secure. Use only tripods not equipped with a stud that prevents the camera from rotating.

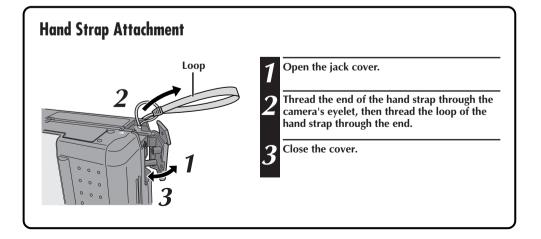
#### Hand Strap Eyelet

Thread the provided hand strap through this eyelet.

Compact Flash Card Slot ........... I pg. 46 Insert an optional Compact Flash card. For details, I pg. 46.

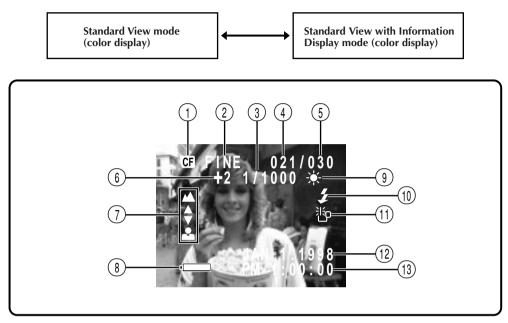
#### 6 Reset Switch

Allows you to reset the camera to its factory presets. First, remove the power supply (AC power adapter, batteries, etc.), then insert a pin or similar object into this hole.



### **On-Screen Display During Shooting**

When the Power Dial is set to " $\mathbb{A}$ ", " $\mathbb{M}$ " or " $\mathfrak{O}$ ", press the DISPLAY Button to change the View mode. Each press of the DISPLAY Button switches the screen as shown below.



- G Icon ..... If pg. 48 Appears when images are being stored in a Compact Flash card.
- ② Picture Quality Mode ..... IF pg. 17 Displays the selected Picture Quality mode (FINE/STD/ECONOMY).
- ③ Shutter Speed ..... IF pg. 26
- ④ Number of Shots Taken Shows the number of images that have already been shot.
- 5 Total Number of Shots Displays the total number of shots that can be stored, including those already taken.
- 6 Exposure Value ..... IF pg. 23
- (7) Focus Indicator ...... IF pg. 28 Displays manual focusing adjustments.

⑧ Battery Power Remaining Displays the approximate battery power remaining:

Nearly exhausted: mark turns red.

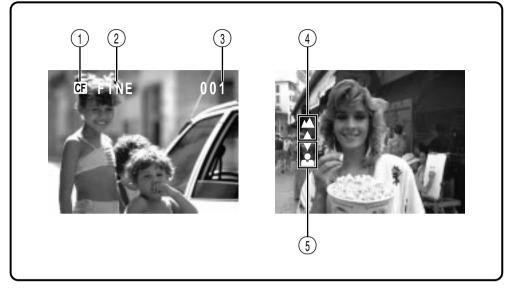
- (9) White Balance ...... □ pg. 24 Displays the current setting when any white balance except AUTO is selected (Fine "★"/Cloudy "★"/Halogen" ★"/ Manual White Balance "M.W.B.").
- (1) **Flash Icon** ...... **F** pg. 22 Appears when the flash is charged.
- (1) **Low Light Icon** ...... **I** pg. 22 Appears when the flash is required.
- 12 Date Display (Month/Day/Year) ... 🖙 pg. 12
- (3) Time Display ..... IF pg. 12

#### Indication During Self-Timer

Mode ...... にデ pg. 21 ②: Appears when the Power Dial is set to "シ". When the Shutter Release Button is pressed, this indicator blinks and the Self-Timer is activated.

### 60 EN CONTROLS, CONNECTORS AND INDICATORS (Cont.)

### **On-Screen Display During Shooting (cont.)**



#### Information Displayed Between Shutter Release and Storage of Image in Memory

- G Icon ...... □ pg. 48 Appears when the image is stored in a Compact Flash card.
- 2 Picture Quality Mode (FINE/STD/ ECONOMY) ..... IF pg. 17
- ③ **Image Number** Displays the index number given to the image file.

#### **Icons Displayed During Manual Focusing**

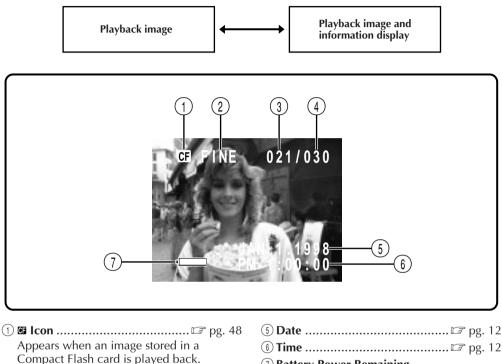
These icons are displayed when manual focusing is selected.

- (4) Far ...... ☞ pg. 28 Rotate the M.FOCUS Dial (MENU Jog Dial) upward to focus on a farther subject. When rotating the M.FOCUS Dial (MENU Jog Dial), ▲ is displayed.
- (5) Near ...... I pg. 28 Rotate the M.FOCUS Dial (MENU Jog Dial) downward to focus on a nearer subject. When rotating the M.FOCUS Dial (MENU Jog Dial), ▼ is displayed.

### **On-Screen Display During Playback**

When the Power Dial is set to "PLAY", press the DISPLAY Button to view the information display over the playback screen.

Each press of the DISPLAY Button switches the screen as shown below.



#### ③ Image Number

Displays the index number given to the image file.

#### (4) Total Number of Images

Displays the total number of stored images.

⑦ Battery Power Remaining
 Displays the approximate battery power remaining:

Nearly exhausted: mark turns red.

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### TROUBLESHOOTING

As this digital still camera is controlled by a microcomputer, it may occasionally malfunction due to noise or interference. In such a case, remove the power supply (batteries or AC power adapter), push the Reset Switch (IPP pg. 58) and retry using the camera. If the trouble still persists and it cannot be solved by referring to the following table, please consult your nearest JVC dealer.

SYMPTOM	CORRECTIVE ACTION	PAGE
Power		
No power is supplied.	<ul> <li>Is the battery dead?</li> <li>Are the batteries loaded in the correct direction?</li> <li>Is the power supply connected properly?</li> </ul>	
Shooting		
The LCD monitor flickers in the Standard View mode (color display).	• The battery power is low. Replace the batteries.	10
Shooting is impossible.	Is the Power Dial set to "PLAY"?	16
Images do not appear.	• Switch off the camera, then on again.	16
The menu screens are not available.	● Is the Power Dial set to "▲"?	16
Although the Shutter Release Button is half-pressed, focusing is not possible.	<ul> <li>Is focusing set to manual adjustment?</li> <li>Are you shooting under low light or are you shooting a subject which has no contrast?</li> </ul>	28
Images become dark when sunlight is captured by the camera.	• This is not a malfunction.	—
The LCD monitor is dark or whitish.	<ul> <li>Turn the lens to adjust the LCD monitor angle or adjust the brightness.</li> <li>Is the image being played back in a cold place? In cold areas, the LCD monitor appears slightly dark. This is not a malfunction.</li> <li>The LCD monitor's lamp is reaching the end of its service life. Consult your nearest JVC dealer.</li> </ul>	14
The message "MEMORY FULL" appears.	• When the built-in memory is full and no more shooting is possible, this message appears. Use a blank Compact Flash card or transfer the stored images to a Windows <sup>®</sup> PC or Macintosh <sup>®</sup> and save them. Then, delete the images from the camera's built-in memory to make room for new shots.	
Images take on a strobe-like effect.	• This is not a malfunction.	—
There is color noise in the image.	• This is not a malfunction.	—
During flash shooting, power turns off.	• During flash shooting, if the remaining battery power is half-full or less, the power may turn off.	22
Noise appears on the image you are shooting or there is noise in the taken shot.	• Noise may appear in strong magnetic or electric fields (ex. near a radio tower, etc.). This is not due to any defect of the camera.	—

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SYMPTOM	CORRECTIVE ACTION	PAGE
Others		
The image on the LCD monitor appears distorted.	• Is the surface or the edge of the LCD monitor being pressed? If so, release your hand and leave it for a while.	_
The date/time is not displayed properly.	• The remaining power of the built-in clock battery is close to nil. Connect the camera to the AC power adapter and plug it in for over 24 hours.	11
A Compact Flash card cannot be inserted.	• Is the Compact Flash card being held in the correct direction?	
None of the buttons or controls function on the camera.	• Switch the camera off, remove the power supply (battery or AC power adapter) and press the Reset Switch on the bottom of the camera with a pin or similar object. All settings are returned to their factory presets.	11 58
Small colored or black spots appear on the LCD monitor.	• The LCD monitor is manufactured using high- precision technology, however, a few pixels on it may be always off (black) or on (lit). This is not due to any defect of the camera. (Function- ing dots: more than 99.99%)	
Preset frame images do not appear.	• If the built-in memory is initialized after the message "PLEASE INITIALIZE" appears, the preset frames are erased. Consult your nearest JVC dealer.	47

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### DISPLAY AND MESSAGES

Display	Description
NO IMAGES STORED	<ul> <li>Appears during playback when no images are stored in the built-in memory or Compact Flash card.</li> </ul>
CONTAINS PROTECTED IMAGES	• Appears when there are protected images in the camera when all-image deletion is attempted. In this case, all images can be deleted by unprotecting the protected images.
TRANSMISSION IN PROGRESS	• Appears while the camera is transmitting image data via the IR communication system.
RECEPTION IN PROGRESS	<ul> <li>Appears while the camera is receiving image data via the IR communication system.</li> </ul>
TOO MANY COPIES	<ul> <li>Appears when copying is impossible because there is not enough space at the destination. Either make space at the destination or reduce the number of images to be copied.</li> </ul>
IMAGE COPYING IN PROGRESS	<ul> <li>Appears while image data is being copied.</li> </ul>
FORMATTING IN PROGRESS	• Appears while a Compact Flash card or the built-in memory is being initialized.
TRANSMISSION TO BE STOPPED	• Appears when image transmission is cancelled.
RECEPTION TO BE STOPPED	• Appears when image reception is cancelled.
TRANSMISSION FAILED	• Appears when data was not sent due to failure.
RECEPTION FAILED	• Appears when data was not received due to failure.
PC MODE	• Appears during image transmission through a PC connection.
DELETING IN PROGRESS	• Appears while the camera is deleting images.
PLEASE INITIALIZE	• Appears when a malfunction occurs in the built-in memory. When this appears, initialize the built-in memory.

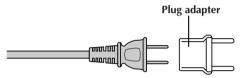
### When using the AC Power Adapter in areas other than the USA

The provided AC Power Adapter features automatic voltage selection in the AC range from 110 V to 240 V.

#### USING HOUSEHOLD AC PLUG ADAPTER

In case of connecting the unit's power cord to an AC wall outlet other than American National Standard C73 series type use an AC plug adapter, called a "Siemens Plug", as shown.

For this AC plug adapter, consult your nearest JVC dealer.



### AC Power Adapter (Optional)

#### 1. To prevent fire, electric shock or injury . . .

- .... **DO NOT** use the AC power adapter with any power source or voltage not supported.
- .... **DO NOT** modify or disassemble the AC power adapter. Never attempt to repair or check it yourself, as this is very dangerous. Consult your nearest JVC dealer for maintenance on the AC power adapter.
- .... **DO NOT** connect any power cord other than the one provided to the AC power adapter. If the power cord's performance or design is different, fire or electric shock may result.
- .... first connect the power cord to the AC power adapter. If the power cord is connected first to an AC outlet, and the AC power adapter's connector comes in contact with a metallic object, a short-circuit will occur which may result in fire or injury.

## 2. To prevent fire, malfunction or electric shock . . .

.... **DO NOT** use any AC power adapter except the one specified with this digital still camera. If the AC adapter's performance or design is different than what the digital camera is designed for, fire, malfunction or electric shocks may result. Before using, thoroughly read the instructions of the digital still camera and the AC power adapter.

#### 3. To avoid malfunction . . .

.... connect the power cord to the AC power adapter securely. If the power cord is disconnected during use of the camera, shooting or playback may become impossible and the image data may become corrupt.

#### Batteries

- This camera requires 4 AA (LR6)-size alkaline batteries. AA (LR6)-size nickel-cadmium (Ni-Cd) or nickel-metal hydrode (Ni-MH) batteries can also be used. Note that the battery power remaining indicated by the camera does not take the type of batteries being used into account.
- Do not use manganese dioxide or carbon zinc batteries as they do not have sufficient energy to power this camera.
- Use the batteries properly. The wrong use can cause them to leak, or become hot or damaged. When replacing the batteries, insert them with their (+) and (–) polarity marks properly aligned, as indicated by the orientation marking inside the battery cover.
- When the batteries become cold in cooler temperatures [below 10 °C (50 °F)], such as outdoors in winter, their lifetime shortens and they may cease to function. If this happens, place the batteries in your pocket or other warm, protected place for a short time, then re-insert them in the camera. We recommend using AA (LR6)-size nickel-cadmium batteries as they can power the camera even at 0°C. (32°F)
- If the (+) and (-) polarity marks are dirty with sweat or oil, this will cause contact failure. Wipe them off with a dry cloth, then use the batteries.
- Keep new batteries handy if you plan to use the camera for an extended period of time (for travel, etc.).
- Before using Ni-Cd or Ni-MH batteries, be sure to charge them fully using their designated battery charger.
- Since batteries become hot after they are exhausted, be careful when replacing them with new ones.
- If the batteries are not used for an extended period, remove them from the camera to avoid battery leakage, which can cause malfunctions to occur.
- Do not use different kinds of batteries or old and new batteries together.
- Do not expose the batteries to excessive heat, as it may cause them to leak or explode.
- Do not dispose of batteries in fire.
- Do not shortcircuit the terminals. Keep them away from metallic objects when not in use.

### Built-in Rechargeable Battery

To store the date/time in memory, a rechargeable battery is integrated in the camera. As long as the camera is connected to an AC outlet using the AC power adapter, or the batteries installed in the camera continue to supply power to the camera, the built-in battery is always charged. However, if the camera is not used for approx. 3 months, the builtin battery will become discharged and the date/time stored in memory will be lost. When this occurs, connect the camera to an AC outlet using the AC power adapter for over 24 hours to charge the builtin rechargeable battery. Before using the camera again, set the date/time.

Note that it is possible to use the camera without setting the date/time.

### Main Unit

#### 1. For safety, DO NOT . . .

- .... open the camera's chassis.
- .... disassemble or modify the unit.
- .... allow inflammables, water or metallic objects to enter the unit.
- .... remove the batteries or disconnect the power supply while the power is on.

#### 2. Avoid using the unit . . .

- .... in places subject to excessive humidity or dust.
- .... in places subject to soot or steam such as near a cooking stove.
- .... in places subject to excessive shock or vibration.
- .... near a television set.
- .... near appliances generating strong magnetic or electric fields (speakers, broadcasting antennas, etc.).
- .... in places subject to extremely high (over 40°C or 104°F) or extremely low (under 0°C or 32°F) temperatures.

#### 3. DO NOT leave the unit . . .

- .... in places of over 50°C (122°F).
- .... in places where humidity is extremely low. (below 35%) or extremely high (above 80%).
- .... in direct sunlight.
- .... in a closed car in summer.
- .... near a heater.

### CAUTIONS (Cont.)

#### 4. To protect the unit, DO NOT . . .

- .... allow it to become wet.
- .... drop the unit or strike it against hard objects.
- .... subject it to shock or excessive vibration during transportation.
- .... keep the lens directed at extremely bright objects for long periods.
- .... carry it by holding the lens. Be sure to hold the main unit with both hands.
- .... swing it excessively when using the hand strap.

#### LCD Monitor

- 1. To prevent damage to the LCD monitor, DO NOT . . .
  - .... push it strongly or apply any shocks.
  - .... place the camera with the LCD monitor on the bottom.
- 2. To prolong service life . . .
  - .... avoid rubbing it with coarse cloth.
- 3. Be aware of the following phenomena for LCD monitor use. These are not malfunctions . . .
- While using the camera, the surface around the LCD monitor and/or the back of the LCD monitor may heat up.
- If you leave power on for a long time, the surface around the LCD monitor becomes hot.

### How To Handle A CD-ROM

- Take care not to soil or scratch the mirror surface (opposite to the printed surface). Do not write anything or put a sticker on either the front or back surface. If the CD-ROM gets dirty, gently wipe it with a soft cloth outward from the center hole using a circular motion.
- Do not use conventional disc cleaners or cleaning spray.
- Do not bend the CD-ROM or touch its mirror surface.
- Do not store your CD-ROM in a dusty, hot or humid environment. Keep it away from direct sunlight.

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#### About moisture condensation . . .

• You may have observed that pouring a cold liquid into a glass will cause drops of water to form on the glass' outer surface. This same phenomenon occurs on the lens of the camera when it is moved from a cool place to a warm place, after heating a cold room, under extremely humid conditions or in a place directly subjected to the cool air from an air conditioner.

#### Serious malfunctioning

If malfunctioning occurs, stop using the unit immediately and consult your local JVC dealer.

Model Number	: GC-S1U
Trade Name	: JVC
Responsible party	: US JVC CORP.
Address	: 41 Slater Drive,
	Elmwood Park, N. J.
	07407
Telephone Number	: (201) 794–3900
This device complies	with Part 15 of FCC Rules.
Operation is subject t	o the following two
conditions:	Ũ

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

Change or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable. protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/ TV technician for help.

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

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

MAJOR SPECIFICATIONS
: 129 (W) x 74 (H) x 39 (D) mm (5-1/8" x 2-15/16" x 1-9/16")
: 4.2 W
: Approx. 260 g (0.58 lbs)
: DC 6 V ===
: Built-in, Effective shooting distance: 0.5 to 2 m (with zoom set all the way to "W")
: 1.8"
: Provided on the bottom panel
: Built-in flash memory (storage capacity: approx. 3 MB), Compact Flash card (Commercially available)
: JPEG (compatible)
: 1/4", 350,000 pixel, progressive scan, complementary color CCD
: 4.5 to 45 mm (equivalent to 43 mm to 430 mm on a 35 mm camera)
: 10X optical zoom
: 27 mm
: F1.6
: Approx. 7 cm
: TTL CCD photometry
: Electronic shutter
: Auto/Manual (1/8 to 1/1000 sec.)
: Auto/Manual (Fine/Cloudy/Halogen/M.W.B.)
: Auto/Manual (7 cm to $\infty$ )
: 3 modes (Fine/Standard/Economy)
: Fine : approx. 30 Standard : approx. 50 Economy : approx. 100
: 2.5 mm dia., 3-pole plug
: 3.5 mm dia., 2-pole plug (NTSC)
: 6 V
: IrDA Ver. 1.0 (IrTran-P compatible)

E. & O. E. Design and specifications subject to change without notice.

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### FOR SERVICING (Only in U.S.A.)

### HOW TO LOCATE YOUR JVC SERVICE CENTER

#### TOLL FREE: 1-800-252-5722

#### Dear customer:

In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-252-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

– JVC

#### JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF US JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

107 Little Falls Road	1500 Lakes Parkway	705 Enterprise Street
Fairfield, NJ 07004-2105	Lawrenceville, GA 30243-5857	Aurora, IL 60504-8135
(973) 808-9279	(770) 339-2522	(630) 851-7855
5665 Corporate Avenue	10700 Hammerly Blvd., Suite 110	2969 Mapunapuna Place, Suite 101
Cypress, CA 90630-4727	Houston, TX 77043-2310	Honolulu, HI 96819-2000
(714) 229-8011	(713) 935-9331	(808) 833-5828
230 Eliot Street	8192 West State Road 84	890 Dubuque Avenue
Ashland, MA 01721-2377	Davie, FL 33324-4611	South San Francisco, CA 94080-1804
(508) 881-5923	(954) 472-1960	(415) 871-2666
Conditioned electronic products may require econocional convice luct on quality in a languard in the		

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF US JVC CORP. 107 Little Falls Road Fairfield, NJ 07004-2105

#### \_If you ship the product...\_

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

#### ACCESSORIES\_

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free: 1-800-882-2345.

#### Don't service it yourself.

#### CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

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#### LIMITED WARRANTY

#### **CONSUMER VIDEO 1-90**

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period")

PARTS <b>1</b> YR	LABOR	<b>90</b> DAYS
-------------------	-------	----------------

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

#### WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

#### WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 252-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

#### WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

- 1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
- 2. Initial installation and installation and removal for repair;
- 3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
- 4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
- 5. Signal reception problems and failures due to line power surge;
- Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
- 7. Accessories;
- Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase); from the date of purchase);

There are no other express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTY OF

MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions 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.

JVC COMPANY OF AMERICA DIVISION OF US JVC CORP. 41 Slater Drive Elmwood Park, New Jersey 07407

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

#### For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.:	 Serial No:
Purchase date:	Name of dealer:

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