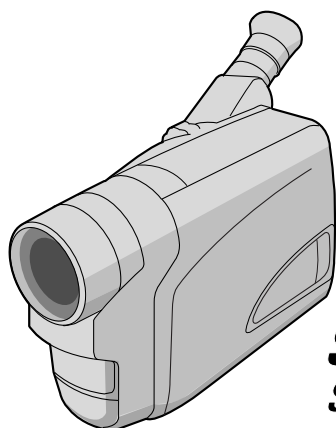


# JVC

## COMPACT VHS CAMCORDER

# GR-SX850



**S VHS**  
**Super VHS**  
**Super VHS ET**

## INSTRUCTIONS

### 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. \_\_\_\_\_

ENGLISH

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LYT0480-001A

**EN**

**Dear Customer,**

Thank you for purchasing the JVC Compact VHS camcorder. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of this product.

**Using This Instruction Manual**



- All major sections and subsections are listed in the Table Of Contents on the cover.
- 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 the Index (☞ pgs. 42 – 45) 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 this product.

You are recommended to carefully read the cautions on pages 46 – 47 before use.

## SAFETY PRECAUTIONS

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



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.

The AA-V16U AC Power Adapter/Charger should be used with:  
AC 120 V~, 60 Hz in the USA and Canada,  
AC 110 – 240 V~, 50/60 Hz in other countries.

**CAUTION (applies to the AA-V16U)**  
TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

**ATTENTION (s'applique à l'AA-V16U)**  
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.

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.

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

**Warning on lithium battery (for clock operation and remote control unit)**

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C (212°F) or incinerate.

Replace the battery with Maxell, Panasonic (Matsushita Electric), Sanyo or Sony CR2025; use of another battery may present a risk of fire or explosion.

- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

**NOTES:**

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

This camcorder is designed to be used with NTSC-type color television signals. It cannot be used for playback with a television of a different standard. However, live recording and viewfinder playback are possible anywhere. Use the BN-V11U/V12U/V20U battery packs and, to recharge them, the provided multi-voltage AC Power Adapter/Charger. (An appropriate conversion adapter may be necessary to accommodate different designs of AC outlets in different countries.)

**ATTENTION:**

The product that you have purchased is powered by a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates JVC is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States. The RBRC® program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-8-BATTERY™ for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. JVC's involvement in this program is part of our commitment to preserving our environment and conserving our natural resources.

When the equipment is installed in a cabinet or on a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm (3-15/16") or more on both sides, on top and at the rear).

Do not block the ventilation holes.

(If the ventilation holes are blocked by a newspaper, or cloth etc. the heat may not be able to get out.)

No naked flame sources, such as lighted candles, should be placed on the apparatus.

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

The apparatus shall not be exposed to dripping or splashing.

Do not use this equipment in a bathroom or places with water.

Also do not place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups etc.) on top of this unit.

(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

# 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.

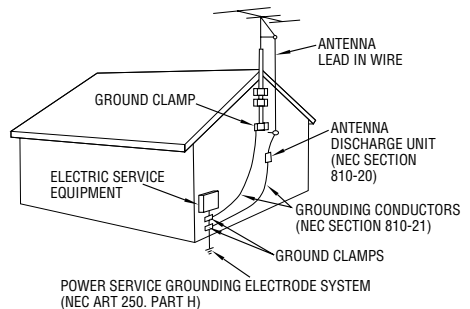
### 2. Lightning

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



NEC - NATIONAL ELECTRICAL CODE

## 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.

PORTABLE CART WARNING  
(Symbol provided by RETAC)



### 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.

### 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:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- 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.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance—this indicates a need for service.

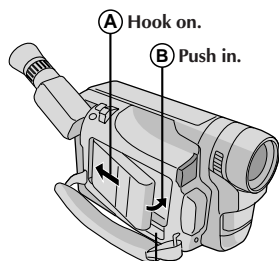
### 3. Replacement Parts

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.

## SUPPLY POWER



BATTERY RELEASE

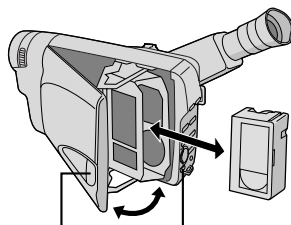
### Using the battery pack

Hook its end to the camcorder (A) and push the battery pack in until it locks in place (B).  
(Charging procedure, pg. 8)

### To remove the battery pack

Slide BATTERY RELEASE and pull out the battery pack.

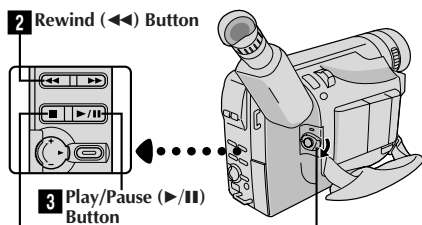
## INSERTING A VIDEO CASSETTE



PUSH Button EJECT Switch

- 1 Slide EJECT to open the cassette holder.
- 2 Insert a video cassette.
- 3 Press PUSH to close the cassette holder.  
(For more details, pg. 10)

## PLAYBACK



Stop (■) Button

1 Set to "PLAY".

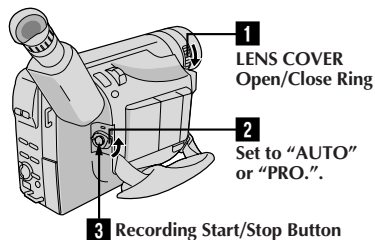
- 1 Set the Power Switch to "PLAY".
- 2 Press ◀◀.  
— The tape will automatically stop at the beginning of the tape.
- 3 Press ▶▶.  
— Playback starts and the playback picture appears.

• To stop playback, press ■.  
(For more details, pg. 31.)

Or simply play back the tape on a VHS VCR using the Cassette Adapter (VHS Playpak).

pg. 33

## SHOOTING



1 LENS COVER Open/Close Ring

2 Set to "AUTO" or "PRO.".

3 Recording Start/Stop Button

- 1 Turn the LENS COVER Open/Close Ring to open the lens cover.
  - 2 Set the Power Switch to "AUTO" or "PRO.".  
— The power lamp will light and an image will appear.
  - 3 Press the Recording Start/Stop Button.  
— Recording starts.
- To stop recording temporarily, momentarily press the Recording Start/Stop Button once again.

(For more details, pgs. 16, 17)

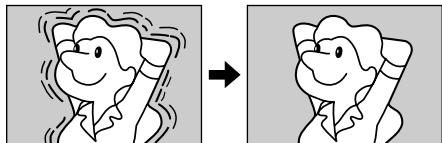
## Program AE with Special Effects (☞ pg. 22)

- Electronic Fog Filter ■ ND Effect
- Sepia ■ Twilight ■ Sports ■ Nega/Posi
- 1/2000 sec. High Speed Shutter

## Super VHS-ET (☞ pg. 13)

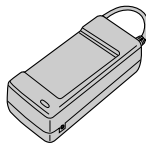
## TBC (Time Base Corrector) (☞ pg. 32)

## Picture Stabilizer (☞ pg. 18)

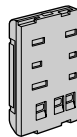


## Digital Hyper Zoom (☞ pg. 18)

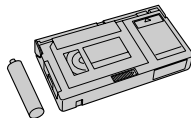
## PROVIDED ACCESSORIES



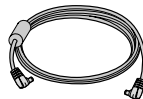
• AC Power Adapter/  
Charger AA-V16U



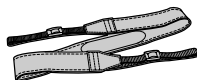
• Battery Pack  
BN-V11U



• Cassette Adapter  
(VHS Playpak)  
C-P7U



• DC Cord



• Shoulder Strap



• Lithium Battery  
CR2025 (for  
clock operation)

## NOTES about Automatic Demonstration

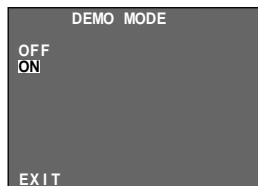
Automatic Demonstration takes place when "DEMO MODE" is set to "ON" (factory-preset).

- Available when the Power Switch is set to "AUTO" or "PRO."
- Operating the Power Zoom Lever during the demonstration stops the demonstration temporarily. If the Power Zoom Lever is not moved for more than 1 minute after that, the demonstration will resume.
- To cancel Automatic Demonstration, set the Power Switch to "PRO." and press **MENU** while the demo is in progress. This takes you directly to the demo mode's Setting Menu (so you will not have to go through the main Menu Screen.) Rotate the Select Wheel to select "OFF" and press it. The Menu Screen appears with the highlight bar on "RETURN". Press it to close the Menu Screen.

\* "DEMO MODE" remains "ON" even if the camcorder power is turned off.

### NOTE:

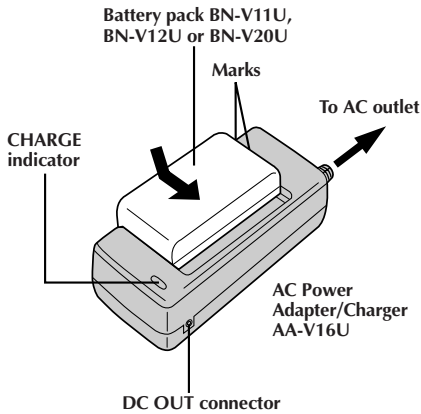
When a tape whose Erase Protection tab is in the position that allows recording is loaded in the camcorder, demonstration is not available.



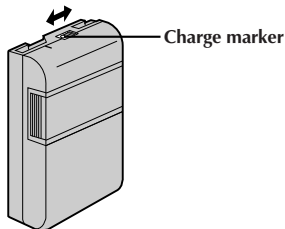
Setting Menu



Cassettes marked **SVHS** and **VHS** can be used with this camcorder.



Battery pack	Charging time
BN-V11U	approx. 1 hr. 10 min.
BN-V12U (optional)	approx. 1 hr. 10 min.
BN-V20U (optional)	approx. 1 hr. 50 min.

**ATTENTION:**

Charging a battery with some charge remaining reduces that battery's capacity. Perform the procedure below to fully discharge the battery pack before recharging.

1. Attach the battery pack to the camcorder and make sure a cassette is **not** inserted, then set the Power Switch to "AUTO" or "PRO."
2. The camcorder power turns off automatically when discharging is complete.

When you are not using a battery pack for a long period of time, be sure to fully discharge it before storing because leaving a battery with some charge left over also reduces performance.

**Power**

This camcorder's 3-way power supply system lets you choose the most appropriate source of power. Do not use provided power supply units with other equipment.

**CHARGING THE BATTERY PACK**

- 1 Make sure you unplug the camcorder's DC cord from the AC Power Adapter/Charger. Plug the AC Adapter/Charger's power cord into an AC outlet.
- 2 Align the marks and slide the battery pack in the direction of the arrow until it locks in place. The CHARGE indicator begins blinking to indicate charging has started.
- 3 When the CHARGE indicator stops blinking but stays lit, charging is finished. Slide the battery in the opposite direction of the arrow and lift off. Remember to unplug the AC Adapter/Charger's power cord from the AC outlet.

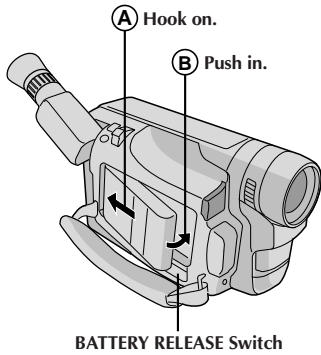
**Charge Marker**

A charge marker is provided on the battery pack to help you remember whether it has been charged or not. Two colors are provided (red and black)—you choose which one means charged and which means discharged.

**NOTES:**

- Perform charging where the temperature is between 10° and 35°C (50°F and 95°F). 20° to 25°C (68°F to 77°F) is the ideal temperature range for charging. If the environment is too cold, charging may be incomplete.
- Charging times noted above are for a fully discharged battery pack.
- Charging time varies according to the ambient temperature and the status of the battery pack.
- To avoid interference with reception, do not use the AC Power Adapter/Charger near a radio.
- If you connect the camcorder's DC cord to the adapter during battery charging, power is supplied to the camcorder and charging stops.
- Since the AC Power Adapter/Charger processes electricity internally, it becomes warm during use. Be sure to use it only in well-ventilated areas.
- When charging the battery pack for the first time or after a long storage period, the CHARGE indicator may not light. In this case, remove the battery pack from the AC Power Adapter/Charger, then try charging again.
- If the battery operation time remains extremely short even after having been fully charged, the battery is worn out and needs to be replaced. Please purchase a new one.
- Remember to set the charge marker after charging a battery pack or after detaching a discharged one from your camcorder.





## USING THE BATTERY PACK

Hook its end to the camcorder (A) and push the battery pack in until it locks in place (B).

- If the battery pack is attached in the wrong position, a malfunction may occur.

### To Detach The Battery Pack . . .

.... slide **BATTERY RELEASE** and pull out the battery pack.

Battery pack	Approximate recording time
BN-V11U	1 hr. 45 min.
BN-V12U (optional)	1 hr. 45 min.
BN-V20U (optional)	2 hrs. 50 min.
BN-V856U (optional)	11 hrs. 10 min.

### NOTES:

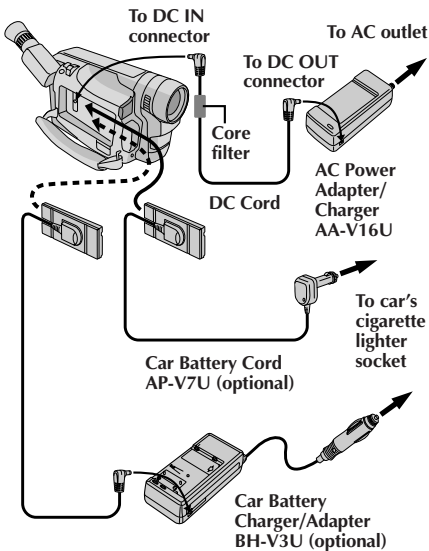
- Recording time is reduced significantly if zoom or Record-Standby mode is engaged repeatedly.
- Before extended use, it is recommended that you prepare enough battery packs to cover 3 times the planned shooting time.

### INFORMATION:

VU-V856KIT is a set composed of the BN-V856U battery pack and AA-V80U AC Power Adapter/Charger. Read the VU-V856KIT's instruction manuals before using. It is impossible to charge the BN-V856U battery pack using the provided AC Power Adapter/Charger. Use the optional AA-V80U AC Power Adapter/Charger.

## ATTENTION:

Before detaching the power source, make sure that the camcorder's power is turned off. Failure to do so can result in a camcorder malfunction.



## USING AC POWER

Use the AC Power Adapter/Charger (connect as shown in the illustration).

### NOTES:

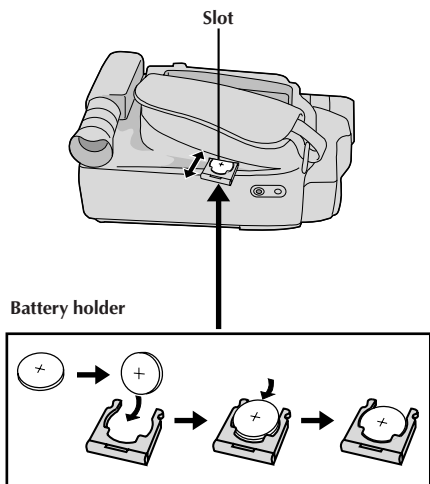
- The provided AC Power Adapter/Charger features automatic voltage selection in the AC range from 110 V to 240 V.
- For other notes, refer to pg. 8.

## USING A CAR BATTERY

Use the optional Car Battery Cord or Car Battery Charger/Adapter (connect as shown in the illustration).

### NOTES:

- When using the car battery, leave the engine idling.
- The optional Car Battery Charger (BH-V3U) can also be used to charge the battery pack (except BN-V20U/V856U).
- When using the optional Car Battery Charger or Car Battery Cord (AP-V7U), refer to the respective instruction booklet.



## Clock (Lithium) Battery Insertion/Removal

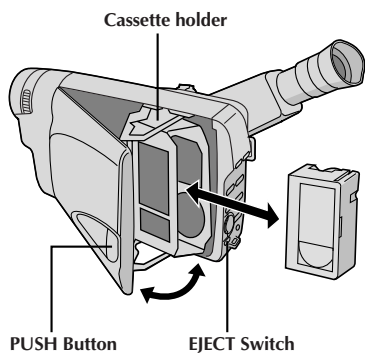
This battery is necessary for clock operation and to perform date/time settings.

- 1** Switch off the unit's power and remove the power supply unit (battery pack, AC Power Adapter/Battery Charger, etc.).
- 2** Pull out the battery holder to remove it from the camcorder.
- 3** Insert the battery in the holder, and be sure to have the "+" mark visible.
- 4** Slide the holder back into the slot until you hear a click.

### NOTES:

- See "SAFETY PRECAUTIONS" (pg. 2) for information on safe handling of lithium batteries.
- To avoid losing the battery and/or battery holder, place the camcorder with the grip side up as shown in the illustration when inserting/removing the battery.

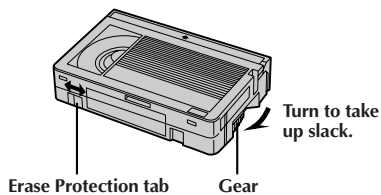
## Loading/Unloading A Cassette

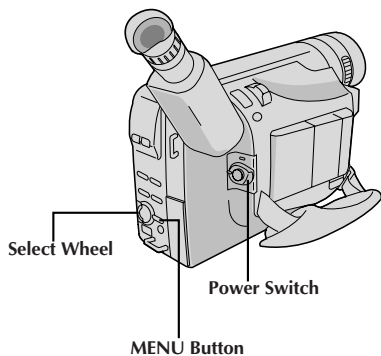


- 1** Slide **EJECT** until the cassette holder opens. Do not use force to open.
- 2** Insert or remove a cassette. When inserting, make sure the label is facing outward.
- 3** Press **PUSH** to close the cassette holder until it locks into place.

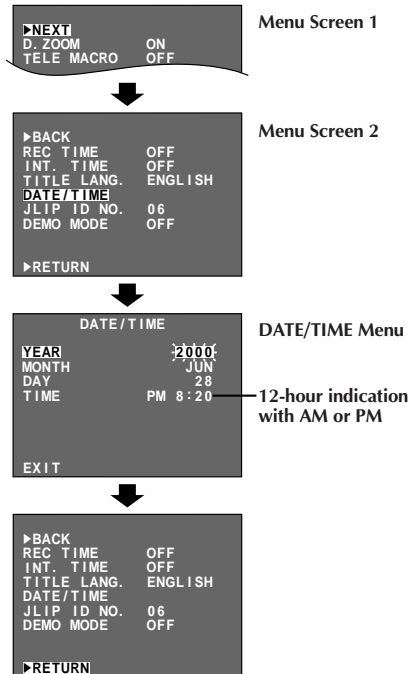
### NOTES:

- The cassette holder can't be opened unless a power supply is attached.
- Make sure that the tape is not slack when loading the cassette. If there is any slack, turn the gear on the cassette in the direction of the arrow to take up the slack.
- Make sure the Erase Protection tab is in the position that allows recording. If not, slide the tab. Some cassettes have removable tabs. If the tab has been removed, cover the hole with adhesive tape.
- The cassette holder cannot be opened while the camcorder is in the record mode.





## Display

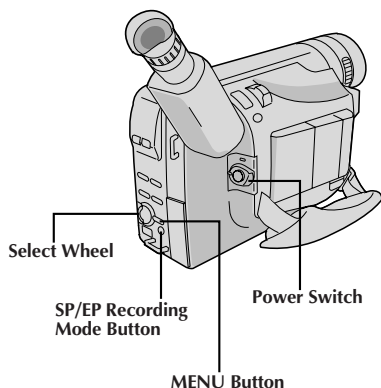


## Date/Time Settings

- 1** Set the Power Switch to "PRO.". The power lamp comes on.
- 2** Press **MENU**. The Menu Screen appears.
- 3** Rotate the Select Wheel to move the highlight bar to "NEXT" in Menu Screen 1 and press it to display Menu Screen 2. Then, rotate it to move the highlight bar to "DATE/TIME" and press it. The DATE/TIME Menu appears.
  - To return to the previous settings, rotate the Select Wheel to move the highlight bar to "EXIT" and press it, then go to step 7.
  - To set only the time without changing the date, go to step 5.
- 4** To set "YEAR", "MONTH" or "DAY", rotate the Select Wheel to move the highlight bar to the desired item, and press it. When the setting begins blinking, rotate the Select Wheel until the correct setting appears and then press it. The setting stops blinking. Repeat for other date settings.
- 5** Rotate the Select Wheel to move the highlight bar to "TIME" and then press it. When the hour setting begins blinking, rotate the Select Wheel until the correct setting appears and then press it. When the hour setting stops blinking and the minute setting begins blinking, rotate the Select Wheel until the correct setting appears and then press it. The minute setting stops blinking.
- 6** When none of these settings ("YEAR", "MONTH", "DAY", "TIME") blinks, rotate the Select Wheel to move the highlight bar to "EXIT", and press it. The Menu Screen reappears with the highlight bar on "RETURN".
- 7** Press the Select Wheel to close the Menu Screen.

**NOTE:**

To display the date and time in the camcorder's display and on a connected TV, see "Date/Time Insert" ( pg. 26).



## Recording Mode Setting

Set depending on your preference.

- 1 Set the Power Switch to "AUTO" or "PRO.". Press **SP/EP** for more than 1 second. "SP" (Standard Play) provides higher picture and sound quality and is better for dubbing, while "EP" (Extended Play) is more economical, providing three times the recording time.

### NOTE:

*If the recording mode is switched during recording, the playback picture will be blurred at the switching point.*

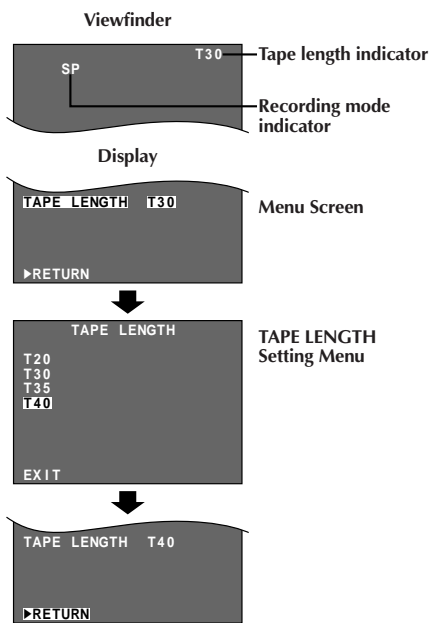
## Tape Length Setting

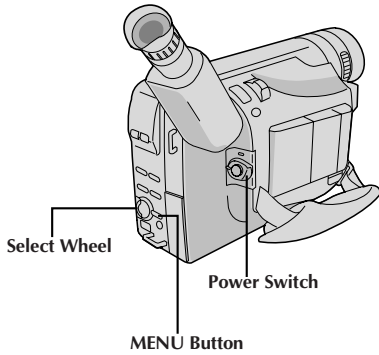
Set the tape length according to the length of the tape used.

- 1 Set the Power Switch to "PRO.", then press **MENU**.
- 2 Rotate the Select Wheel to move the highlight bar to "TAPE LENGTH", then press it. The TAPE LENGTH Setting Menu appears.
- 3 Rotate the Select Wheel to move the highlight bar to the correct tape length setting. T20=20 minutes of recording time, T30=30 minutes, T35=35 minutes, and T40=40 minutes (in SP).
  - To return to the previous setting, rotate the Select Wheel to move the highlight bar to "EXIT".
- 4 Press the Select Wheel. The Menu Screen reappears with the highlight bar on "RETURN". Press the Select Wheel again to close the Menu Screen.

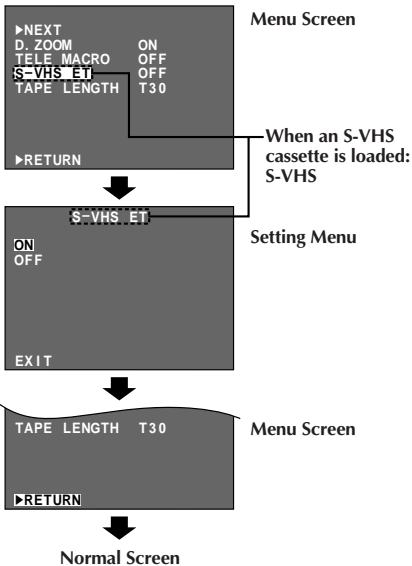
### NOTE:

*The tape remaining time (⏪ pg. 16) displayed in the viewfinder is correct only if the correct tape length has been selected.*





Display: when a VHS cassette is loaded.



## Recording Format Setting

Set the recording format according to the format of the tape used or type of recording you wish to perform.

**1** Set the Power Switch to "PRO.". Press **MENU**.

**2** *If a VHS cassette is loaded . . .*  
 .... rotate the Select Wheel to move the highlight bar to "S-VHS ET", then press it. The S-VHS ET Setting Menu appears.

*If an S-VHS cassette is loaded . . .*  
 .... rotate the Select Wheel to move the highlight bar to "S-VHS", then press it. The S-VHS Setting Menu appears.

**3** Rotate the Select Wheel to set to either of the parameters, then press it. The highlight bar moves to "EXIT".

### *In the S-VHS ET Setting Menu,*

**ON** : Records with S-VHS picture quality on a VHS cassette (factory-preset). This is called Super VHS ET (Expansion Technology).

**OFF** : Records in VHS.

### *In the S-VHS Setting Menu,*

**ON** : Records in S-VHS on an S-VHS cassette (factory-preset).

**OFF** : Records in VHS on an S-VHS cassette.

**4** Press the Select Wheel. The Menu Screen reappears with the highlight bar on "RETURN". Press the Select Wheel again to close the Menu Screen.

- When the S-VHS ET mode is engaged, "S-ET" is displayed.
- During S-VHS record mode, "S" is displayed.
- When S-VHS ET or S-VHS recording starts, "S-VHS REC." is displayed for approx. 3 seconds.

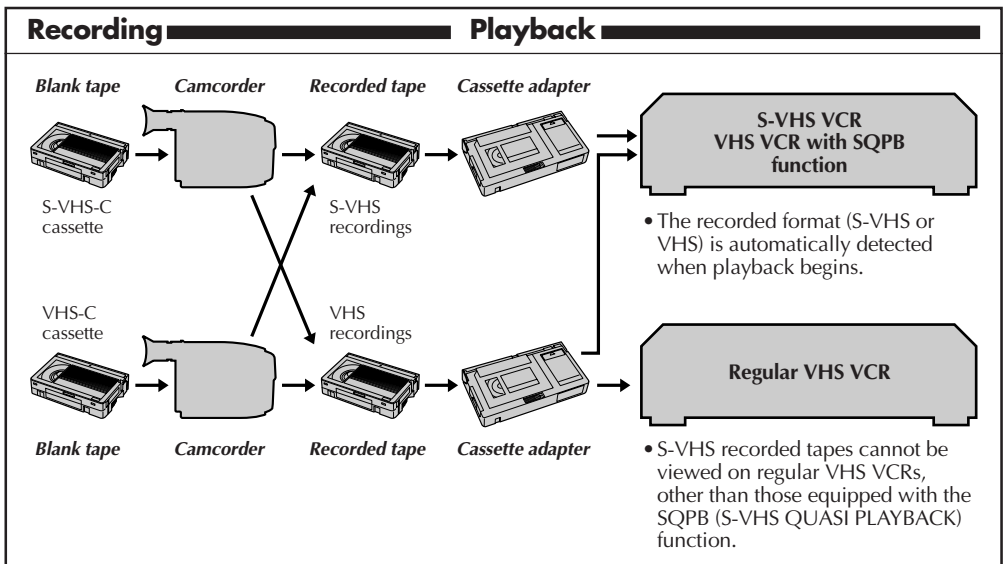
### **NOTE:**

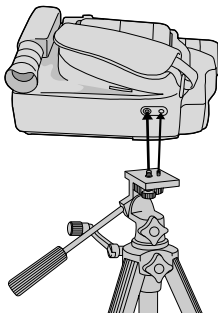
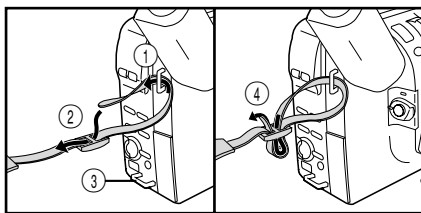
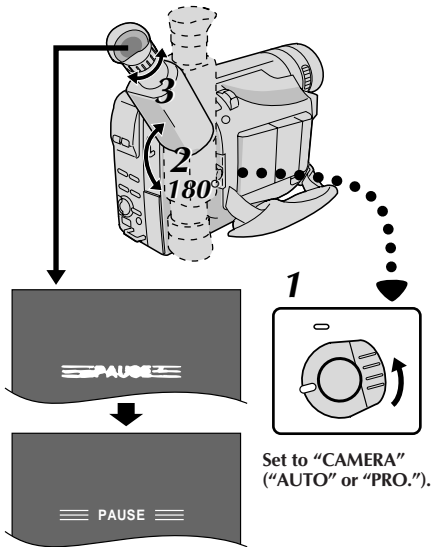
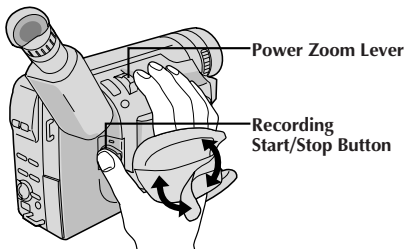
*If a cassette is not loaded, "S-VHS" will be displayed in the Menu Screen.*

## NOTES about S-VHS and S-VHS ET

- JVC EHG (Extra High Grade) tapes are recommended for superior results.  
Use S-VHS tape for storing recordings for an extended period or for recording important scenes, as it enables higher-quality recording and playback.
- With some tapes, better picture quality may not be obtained even with S-VHS ET recording. It is recommended that you do test record beforehand to make sure whether better results can be obtained.
- If the S-VHS ET mode or recording format is switched during recording, the playback picture will be blurred at the switching point.
- It is recommended that tapes recorded in the SP mode on this camcorder be played back on this camcorder.
- Noise may appear on-screen when tapes recorded in the EP mode are played back.
- Tapes recorded in S-VHS or S-VHS ET mode can be played back not only on this camcorder but also on a Super VHS VCR or a VCR equipped with the SQPB (S-VHS QUASI PLAYBACK) function.
  - When tapes recorded in S-VHS or S-VHS ET mode are played back on a VCR equipped with the SQPB (S-VHS QUASI PLAYBACK) function, S-VHS picture quality is not available.
  - Tapes recorded in S-VHS ET mode cannot be played back on some VCRs, including some JVC VCRs (eg: HR-S6600U, HR-SCT1000U, etc.).
- Tapes recorded in S-VHS or S-VHS ET mode cannot be played back correctly on a normal VHS VCR.
- You can play back S-VHS ET recordings not only on this VCR but also on another VHS VCR equipped with S-VHS ET.
  - It is recommended to specifically label S-VHS ET recordings so you can easily distinguish them from regular VHS recordings.
- S-VHS ET does not work with S-VHS tapes.
- To avoid on-screen noise, do not perform Still Playback or Shuttle Search repeatedly.
- If the picture contains a lot of jitter or noise, use a cleaning cassette.

## Compatibility Between S-VHS And VHS





## Grip Adjustment

- 1 Separate the Velcro strip.
- 2 Pass your right hand through the loop and grasp the grip.
- 3 Adjust so that your thumb and fingers can easily operate the Recording Start/Stop Button and Power Zoom Lever. Refasten the Velcro strip.

## Viewfinder Adjustment

- 1 Set the Power Switch to "CAMERA" ("AUTO" or "PRO.").
- 2 Adjust the viewfinder manually for best viewability.
- 3 Turn the Diopter Adjustment Control until the indications in the viewfinder are clearly focused.

## Shoulder Strap Attachment

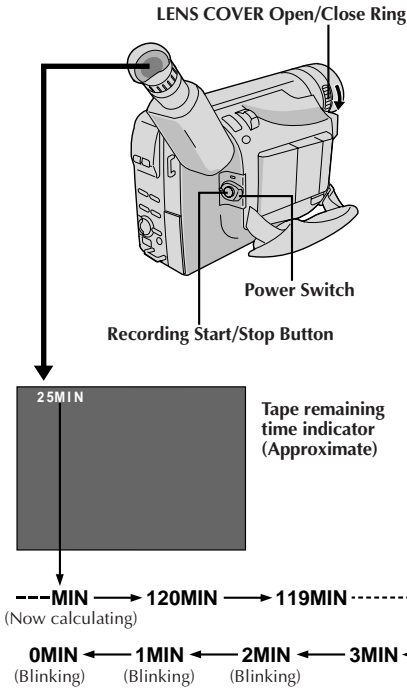
- 1 Following the illustration, thread the strap through the eyelet ①, then fold it back and thread it through the buckle ②. Repeat the procedure to attach the other end of the strap to the other eyelet ③, making sure the strap is not twisted.
- 2 Adjust as shown in the illustration ④.

## Tripod Mounting

- 1 Align the screw and camera direction stud on the tripod with the camera's mounting socket and stud hole. Then tighten the screw.

### CAUTION:

When using a tripod, be sure to open and extend its legs fully to stabilize the camcorder. To prevent damage to the unit caused by falling over, do not use a small-sized tripod.

**NOTE:**

You should already have performed the procedures listed below. If not, do so before continuing.

- Power (☞ pg. 8)
- Recording Mode Setting (☞ pg. 12)
- Load A Cassette (☞ pg. 10)
- Grip Adjustment (☞ pg. 15)
- Viewfinder Adjustment (☞ pg. 15)

**1** Turn the **LENS COVER** Open/Close Ring to open the lens cover. Set the Power Switch to "CAMERA" ("AUTO" or "PRO."). The power lamp lights and the camcorder enters the Record-Standby mode. "PAUSE" is displayed in the viewfinder.

**2** Press the Recording Start/Stop Button. "REC" appears in the viewfinder while recording is in progress.

**To Stop Recording . . .**

.... press the Recording Start/Stop Button. The camcorder re-enters the Record-Standby mode.

**Power Switch Position**

- AUTO** : Suitable for standard recording using NO special effects or manual adjustments.
- PRO.** : Allows you to set recording functions using the menus for more creative capabilities.
- OFF** : Switches off the camcorder.
- PLAY** : Allows you to play back your recordings.



**NOTES:**

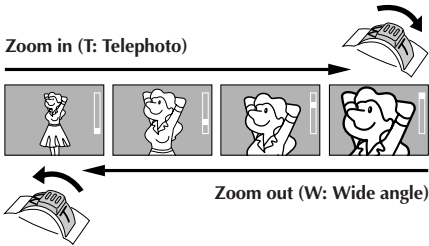
- The cassette holder cannot be opened unless a power supply is attached.
- There may be a delay after you slide **EJECT** until the cassette holder opens. Do not use force.
- The time required to calculate the remaining tape length, and the accuracy of the calculation, may vary according to the type of tape used.
- The tape remaining time indicator is correct only if the correct tape length has been selected (☞ pg. 12).
- "TAPE END" appears when the tape reaches its end, and the power goes off automatically if left in this condition for 5 minutes. "TAPE END" also appears when a cassette whose tape is already at its end is loaded.
- If the Record-Standby mode continues for 5 minutes without performing Zoom or any other operations, the camcorder's power shuts off automatically. Set the Power Switch to "OFF", and then back to "CAMERA" to turn the camcorder on again.
- If the Recording Start/Stop button is pressed after the Record-Standby mode has continued for over 5 minutes, recording may not start immediately.
- If you are recording on a cassette from the middle (such as when a tape is removed and re-inserted during recording), use the Retake function (☞ pg. 19) to find the end of the last recording so you do not erase any of it.

**VIEWFINDER INDICATIONS**

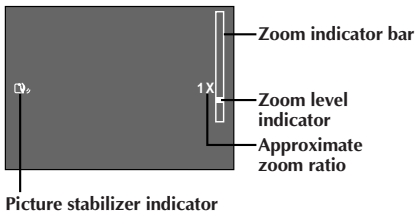
Press **DISPLAY** for more than 1 second to make the following indications appear/disappear from the camcorder's display: cassette warning, tape remaining time, battery pack remaining power indicator and tape length indicator (☞ pg. 44, 45).

**NOTE:**

*Even if the indications are off, the tape remaining time appears blinking when the tape is near its end, and the battery pack remaining power indicator appears blinking when the power is almost gone.*

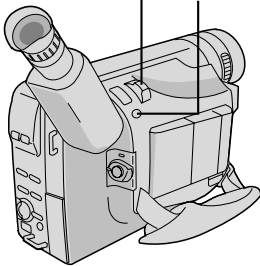


Display



Power Zoom Lever

P. STABILIZER Button



## FEATURE: Zooming

### PURPOSE:

To produce the zoom in/out effect, or an instantaneous change in image magnification. Digital circuitry extends the maximum magnification offered by optical zoom. This system is called Digital Zoom.

### OPERATION:

#### Zoom In

Slide the Power Zoom Lever towards "T".

#### Zoom Out

Slide the Power Zoom Lever towards "W".

- The further you slide the Power Zoom Lever, the quicker the zoom action.

### NOTES:

- Focusing may become unstable during Zooming. In this case, set the zoom while in Record-Standby, lock the focus by using the manual focus (ⓘ pg. 29), then zoom in or out in Record mode.
- The zoom level indicator (■) moves during zoom. Once the zoom level indicator reaches the top of the zoom indicator bar, all magnification from that point is through digital processing.
- When using Digital Zoom, the quality of image may suffer. To deactivate Digital Zoom, set "D.ZOOM" to "OFF" in the Menu Screen (ⓘ pg. 24).

## FEATURE: Picture Stabilizer

### PURPOSE:

To compensate for unstable images caused by camera-shake, particularly at high magnification.

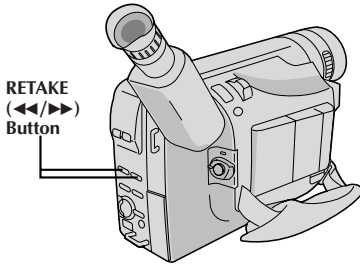
### OPERATION:

Press P. STABILIZER. "P" appears.

- To switch off the Picture Stabilizer, press P. STABILIZER. The indicator disappears.

### NOTES:

- Accurate stabilization may not be possible if hand shake is excessive, or under the following conditions:
  - When shooting subjects with vertical or horizontal stripes.
  - When shooting dark or dim subjects.
  - When shooting subjects with excessive backlighting.
  - When shooting scenes with movement in various directions.
  - When shooting scenes with low-contrast backgrounds.
- Switch off the Picture Stabilizer when recording with the camcorder on a tripod.
- The "P" indicator appears blinking if the Stabilizer cannot be used.



### FEATURE: Quick Review

#### PURPOSE:

To check the end of the last recording.

#### OPERATION:

- 1) Set the Power Switch to "CAMERA" ("AUTO" or "PRO.").
- 2) Press ◀ and release quickly during the Record–Standby mode.
  - Tape is rewound for approx. 2 seconds and played back automatically, then pauses in Record–Standby mode for the next shot.

#### NOTE:

*Distortion may occur at the start of playback. This is normal.*

### FEATURE: Retake

#### PURPOSE:

To re-record certain segments.

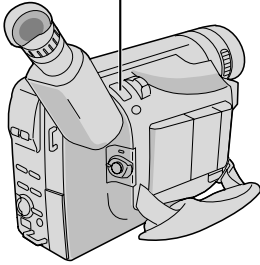
#### OPERATION:

- 1) Make sure the camcorder is in the Record–Standby mode.
- 2) Press and hold either **RETAKE** to reach the start point for new recording. Pressing ▶ forwards the tape and pressing ◀ reverses it.
- 3) Press the Recording Start/Stop Button to start recording.

#### NOTE:

*Noise bars appear and pictures may become monochrome or darken during Retake. This is normal.*

5 SEC. REC Button



Display



5 Sec. Rec mode indicator

**FEATURE: 5Sec. Rec (5-sec. Recording)****PURPOSE:**

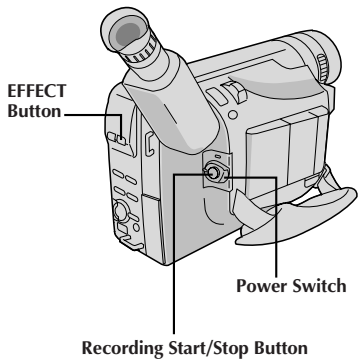
To record a scene for 5 seconds, providing quick scene transitions like those seen in TV programs.

**OPERATION:**

- Make sure the recording mode is set to "SP".
- 1) During Record-Standby, press **5SEC. REC.** "◀ 5S" appears and 5Sec. Rec is reserved.
- 2) Press the Recording Start/Stop Button. Recording starts, and after 5-second recording is finished, the camcorder reenters the Record-Standby mode automatically.
- To cancel the 5Sec. Rec. function, press **5SEC. REC** again so that "◀ 5S" disappears.

**NOTE:**

*Fade/Wipe* (☞ pg. 21) cannot be activated by pressing **5SEC. REC.**



## Fade/Wipe Effects

These effects let you make pro-style scene transitions. Fade- or wipe-in works at recording start, and fade- or wipe-out works at recording end or when you enter Record-Standby mode.

- 1** Set the Power Switch to "PRO."
- 2** Press **EFFECT** repeatedly until the desired mode's name and indication appear. They are displayed for approx. 2 seconds, then the name disappears so that only the indication remains. The effect is reserved.
- 3** Press the Recording Start/Stop Button to activate fade-in/out or wipe-in/out.
- 4** To cancel a fade or wipe, press **EFFECT** repeatedly until "OFF" appears. "OFF" is displayed for approx. 2 seconds and the fade/wipe standby mode is canceled.

### **[Bk]** FADER

Fades in/out to a black screen.

### **[Mosaic]** MOSAIC (Fader)

Gradually turns/returns the picture into/from a mosaic pattern.

### **[Shutter]** SHUTTER (Wipe)

A black screen moves in from the top and bottom, closing over the image like a shutter, or a new image pushes open the black screen vertically from the center.

### **[Slide]** SLIDE (Wipe)

A black screen moves in from the left to gradually cover the image, or a new image moves in from right to left.

### **[Door]** DOOR (Wipe)

Wipes in as the two halves of a black screen open to the left and right, revealing the scene, or wipes out and the black screen reappears from left and right to cover the scene.

### **[CW]** CW:CORNER (Wipe)

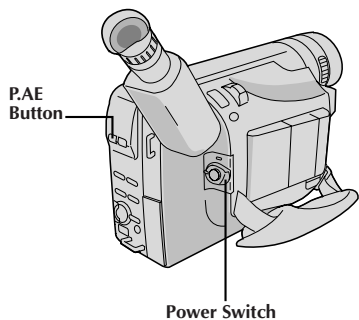
Wipes in on a black screen from the upper right to the lower left corner, or wipes out from lower left to upper right, leaving a black screen.

### **[WW]** WINDOW (Wipe)

The next scene gradually wipes in from the center of the screen toward the corners, covering the previous scene.

#### NOTES:

- Pressing and holding the Recording Start/Stop Button allows you to vary the length for the image during fade in/out or wipe in/out.
- The screen becomes slightly reddish when the Fade/Wipe is used with Sepia (pg. 22).
- With the Electronic fog filter mode (pg. 22) engaged, the image fades in/out to a white screen.



## Program AE With Special Effects

- 1** Set the Power Switch to "PRO."
- 2** Press **P.AE** repeatedly until the desired mode's name and indication appear. They are displayed for approx. 2 seconds, then the name disappears so that only the indication remains. The mode is activated.
- 3** To cancel the effect, press **P.AE** repeatedly until "OFF" appears. "OFF" is displayed for approx. 2 seconds.

### NOTES:

- Only one mode can be engaged at a time.
- The screen becomes slightly reddish when the Fade/Wipe (☞ pg. 21) is used in the Sepia mode.
- The screen becomes slightly dark in the High Speed Shutter mode. Use in well-lit situations.
- In the "High Speed Shutter" or "Sports" modes, picture color may be adversely affected if the subject is lit by alternating discharge-type light sources such as fluorescent or mercury-vapor lights.

### SEPIA

The scene being shot is recorded in sepia-tinted (reddish-brown) monochrome, giving the effect of an older movie. Use together with Wide (☞ pg. 24) for the authentic look of a classic Hollywood movie.

### SPORTS

High shutter speed clearly captures fast-moving action.

### ND:ND EFFECT

A black mist darkens the picture, as when an ND filter is used. Helps to counter the effects of glare on the subject.

### FG:FOG

Makes the picture look misty white, as when an external fog filter is attached to the lens. Softens the image and gives it a "fantasy" look.

### TWILIGHT

Dusk, twilight scenery, fireworks, etc., look more natural and dramatic. The following happens when Twilight mode is selected:

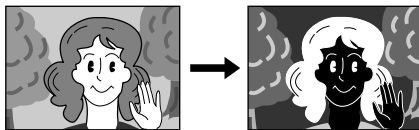
- Auto gain control is turned off.
- White Balance is set to "☀:FINE" (day mode), but can also be manually changed to another mode (☞ pg. 30).
- Auto Focus becomes available only in the range of 10 m (32 ft.) to infinity. To focus when the subject-to-camera distance is less than 10 m (32 ft.), use manual focusing (☞ pg. 29).

### S1/2000

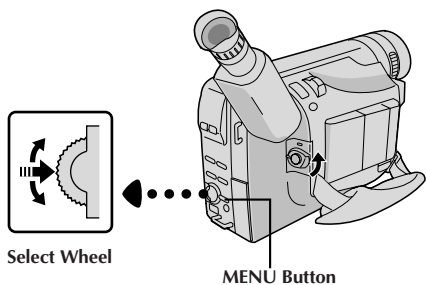
Captures faster action than Sports mode.

### NEGA POSI

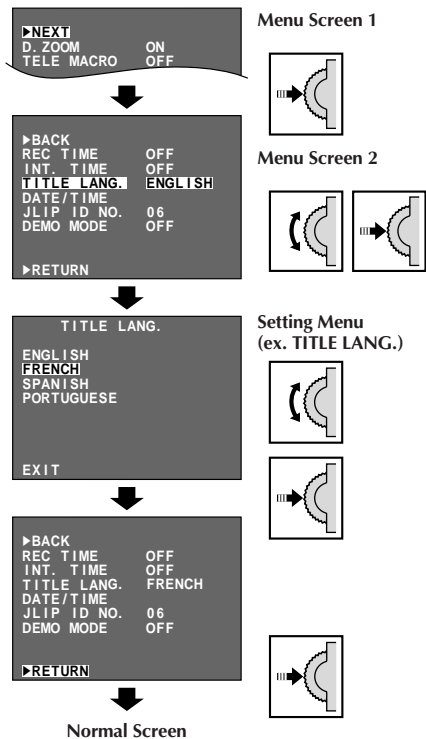
The colors of a picture are reversed.



NEGA POSI mode



Display  
(ex. Menu Screen available using the MENU Button)



## Using Menus For Detailed Adjustment

This camcorder is equipped with an easy-to-use, on-screen menu system that simplifies many of the more detailed camcorder settings.

- 1 Set the Power Switch to "PRO."
- 2 Menu access depends on the function you select.
  - If you select the functions from the "Menu Screen Available Using The Select Wheel" described on pg. 24 . . .**
    - .... press the Select Wheel. The Menu Screen appears.
  - If you select the functions from the "Menu Screen Available Using The MENU Button" described on pg. 24 and 25 . . .**
    - .... press MENU. The Menu Screen appears.
- 3 Rotate the Select Wheel to place the highlight bar on the desired function.
  - To go from Menu Screen 1 to Menu Screen 2, rotate the Select Wheel to "NEXT" and press it. To go back to Menu Screen 1 from Menu Screen 2, rotate the Select Wheel to "BACK", and press it.
  - To return to the previous setting, place the highlight bar on "RETURN", then go to step 6.
- 4 Press the Select Wheel. The setting procedure depends on the function you select.
  - If you select "FOCUS", "EXPOSURE", "M.W.B." or "DATE/TIME" . . .**
    - .... see respective pages (FOCUS: [pg. 29](#), EXPOSURE: [pg. 28](#), M.W.B.: [pg. 30](#), DATE/TIME: [pg. 11](#)) and perform each procedure from step 4.
  - If you select "JLIP ID NO." . . .**
    - .... rotate the Select Wheel until the desired number appears, and press it. Then rotate the Select Wheel to move the highlight bar to "EXIT".
  - If you select any other functions . . .**
    - .... rotate the Select Wheel to move the highlight bar to the desired setting.
      - To return to the previous setting, place the highlight bar on "RETURN".
- 5 Press the Select Wheel. The Menu Screen reappears with the highlight bar on "RETURN".
- 6 Press the Select Wheel. The normal screen reappears.

### NOTE:

No menu functions except "FOCUS" and "EXPOSURE" are available while in the Record mode.

## MENU SCREEN EXPLANATIONS

## Menu Screen Available Using The Select Wheel

<b>FOCUS</b>	Refer to "Focusing" (☞ pg. 29).	
<b>EXPOSURE</b>	Refer to "Exposure Control" (☞ pg. 28).	
<b>M.W.B.</b>	Refer to "White Balance Adjustment" and "Manual White Balance Operation" (☞ pg. 30).	
<b>WIDE</b>	<b>OFF</b>	Does not display black bars.
	<b>ON</b>	Allows you to record black bars at the top and bottom of the screen to produce a cinema-like "wide-screen" effect.
<b>S.LX</b>	<b>MAX</b>	To record a subject in a darkly lit environment, when it is more convenient to shoot the subject with a brighter image even if the picture becomes slightly coarse.
	<b>NORMAL</b>	To record a subject in a dimly lit environment, when it is more convenient to shoot with a less coarse picture although the subject becomes slightly dark. This setting is suitable for measuring sensitivity conforming to EIA-639 (EIA* Standard for Low Light Sensitivity Measurement). *EIA : Electronic Industries Alliance
	<b>OFF</b>	Allows you to shoot dark scenes with no picture brightness adjustment.
<b>TITLE</b>	Allows you to superimpose one of eight preset titles (☞ pg. 26).	
<b>DATE/TIME DISP.</b>	Makes the date/time settings appear in the camcorder or on a connected monitor (☞ pg. 26).	

## Menu Screen Available Using The MENU Button

This Menu Screen cannot be accessed while recording.

<b>D. ZOOM</b>	<b>ON</b>	Allows you to use the Digital Zoom. By digitally processing and magnifying images, zooming is possible from 16X (the optical zoom limit), to a maximum of 300X digital magnification.
	<b>OFF</b>	Digital Zoom is not available. Only optical zoom (maximum 16x magnification) can function. When set to "OFF" during Digital Zoom, zoom magnification changes to 16X.
<b>TELE MACRO</b>	<b>OFF</b>	Usually the distance to a subject where the lens is in focus depends on the zoom magnification. Unless there is a distance of more than 1 m (3.25 ft.) to the subject, the lens is out of focus at the maximum telephoto setting. When set to "ON", you can shoot a subject as large as possible at a distance of approx. 60 cm (23-5/8"). • Depending on the zoom position, the lens may go out of focus.
	<b>ON</b>	

 : Factory-preset



## Menu Screen Available Using The MENU Button (cont.)

<b>S-VHS* (S-VHS ET*)</b>	<b>ON</b>	Records in S-VHS on a VHS or S-VHS cassette (☞ pg. 13).
	<b>OFF</b>	Records in VHS on a VHS or S-VHS cassette (☞ pg. 13).
<b>TAPE LENGTH</b>	Allows you to set the tape length depending on the tape used (☞ pg. 12).	
<b>REC TIME</b>	Refer to "Animation" and "Time-Lapse" (☞ pg. 27).	
<b>INT. TIME</b>	Refer to "Time-Lapse" (☞ pg. 27).	
<b>TITLE LANG.</b>	Allows you to select the language (ENGLISH, FRENCH, SPANISH or PORTUGUESE) of Instant Titles (☞ pg. 26).	
<b>DATE/TIME</b>	Allows you to set the current date and time (☞ pg. 11).	
<b>JLIP ID NO.</b>	This number is necessary when connecting the camcorder to a device such as a computer using the J terminal (JLIP). The numbers range from 01 to 99. Factory setting is 06.	
<b>DEMO MODE</b>	<b>ON</b>	Demonstrates certain functions such as Fade/Wipe, etc. When "DEMO MODE" is set to "ON" and the Menu Screen is closed, the demonstration starts. Operating the Power Zoom Lever during the demonstration stops the demonstration temporarily. If the Power Zoom Lever is not moved for more than 1 minute after that, the demonstration will resume. <b>NOTE:</b> <i>When a tape whose Erase Protection tab is in the position that allows recording is loaded in the camcorder, demonstration is not available.</i>
	<b>OFF</b>	Automatic demonstration will not take place.

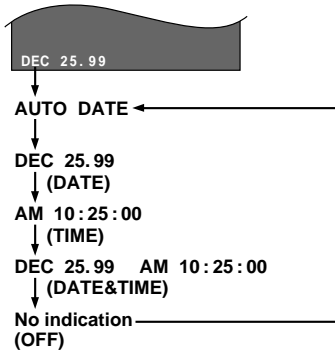
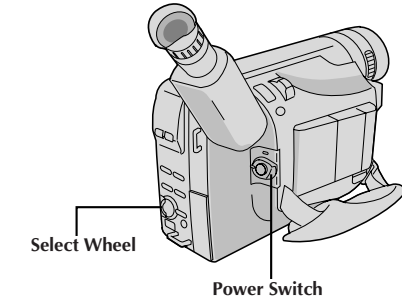
\*S-VHS ET is displayed when a VHS cassette is loaded, and S-VHS is displayed when an S-VHS cassette is loaded (☞ pg. 13). If a cassette is not loaded, "S-VHS" will be displayed in the Menu Screen. S-VHS ET is preset to "OFF".

: Factory-preset

## Date/Time Insert

Allows you to display the date and time in the camcorder or on a connected color monitor, as well as to record them manually or automatically.

You should have already performed the Date/Time Setting procedure (☞ pg. 11).



## Instant Titles

The camcorder has eight preset titles in memory. You can superimpose one of them over the video image.

Instant Titles can be displayed not only in English but also in French, Spanish and Portuguese. Change the setting in TITLE LANG. in the Menu Screen. (☞ pg. 23, 25).



- 1 Set the Power Switch to "PRO."
- 2 Press the Select Wheel to display the Menu Screen.
- 3 Rotate the Select Wheel to move the highlight bar to "DATE/TIME DISP." while in Record-Standby, then press it to display the Date/Time DISP. Menu.
- 4 Rotate the Select Wheel to move the highlight bar to the desired mode, then press it. The desired mode is activated.
- 5 The Menu Screen reappears with the highlight bar on "RETURN". Press the Select Wheel to close the Menu Screen.

### NOTES:

#### DISPLAY

- The selected display can be recorded.
- If you do not want to record the display, select the OFF mode before shooting.

#### AUTO DATE

- Your camcorder automatically records the date for about 5 seconds after recording is initiated in the following situations:
  - After changing the date.
  - After loading a cassette.
  - After Auto Date Record mode is selected by rotating the Select Wheel.
- In this mode, the date is replaced after 5 seconds with "AUTO DATE" but this is not recorded.

- 1 Set the Power Switch to "PRO."
- 2 Press the Select Wheel to display the Menu Screen.
- 3 Rotate the Select Wheel to move the highlight bar to "TITLE" while in Record-Standby, then press it to display the TITLE Menu.
- 4 Rotate the Select Wheel to move the highlight bar to the desired mode, then press it. The desired mode is activated.
  - To make the title indication disappear, select "OFF".
- 5 The Menu Screen reappears with the highlight bar on "RETURN". Press the Select Wheel to close the Menu Screen.

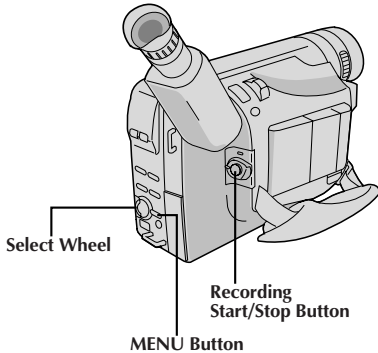
### NOTE:

The selected title will remain until OFF is selected in the TITLE Menu.

**NOTES:**

Before performing the following steps, make sure that:

- The Power Switch is set to "PRO."
- The camcorder is in the Record-Standby mode.
- The recording mode is set to "SP".

**Display**

INT. TIME and REC TIME indications on the normal screen

**Animation**

You can shoot a series of pictures, each slightly different, of the same object for a brief period of time.

- 1 Press **MENU**. The Menu Screen appears.
- 2 Rotate the Select Wheel to move the highlight bar to "NEXT" in Menu Screen 1 and press it to display Menu Screen 2. Then, move the highlight bar to "REC TIME" and press it. The REC TIME Menu appears. Rotate the Select Wheel to move the highlight bar to the desired recording time, then press it. The Menu Screen reappears with the highlight bar on "RETURN".
- 3 Press the Select Wheel again to close the Menu Screen.
- 4 Press the Recording Start/Stop Button after focusing on the subject. The recording stops automatically after the selected period of time.
  - Repeat step 4 for the desired number of pictures.
- 5 To release the Animation mode, set "REC TIME" in the Menu screen to "OFF".

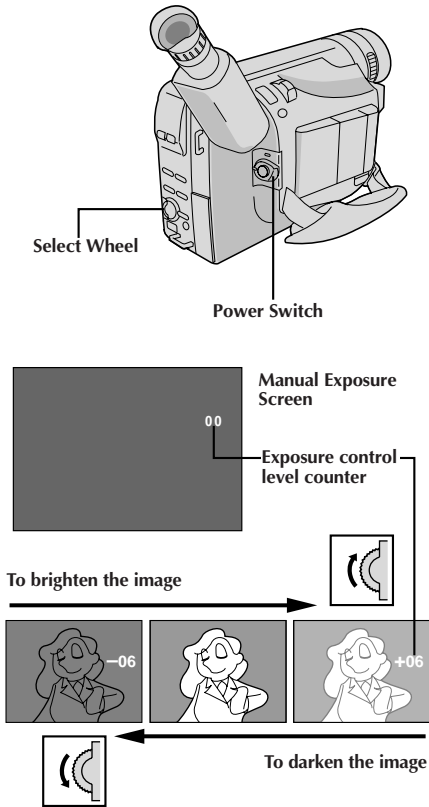
**Time-Lapse**

You can record sequentially at preset time spans. Leaving the camcorder aimed at a specific subject, you can record subtle changes over an extended period of time.

- 1 Set "REC TIME" (☞ step 1 and 2 of "Animation" above).
- 2 Rotate the Select Wheel to move the highlight bar to "INT. TIME" and press it. The INT. TIME Menu appears. Rotate the Select Wheel to move the highlight bar to the desired interval time, then press it. The Menu Screen reappears with the highlight bar on "RETURN". Press the Select Wheel again to close the Menu Screen.
- 3 Press the Recording Start/Stop Button. Recording and intervals alternate automatically.
- 4 To release the Time-Lapse mode, when "REC" is not displayed, press the Recording Start/Stop Button to display "≡PAUSE≡", then set "REC TIME" and "INT. TIME" in the Menu Screen to "OFF".

**NOTES (for Animation and Time-Lapse):**

- For best results, make sure the camcorder is secured when shooting in Animation or Time-Lapse mode.
- Fade- or wipe-in/out cannot be performed during Animation or Time-Lapse shooting.
- Before performing other operations following Animation or Time-Lapse recording, make sure the Animation or Time-Lapse mode is deactivated.
- Animation and Time-Lapse are canceled when the power is shut off or when the cassette is ejected.



## Exposure Control

This feature automatically adjusts the iris for the best available picture quality, but you can override it and make the adjustment manually. Manual exposure adjustment is recommended in the following situations:

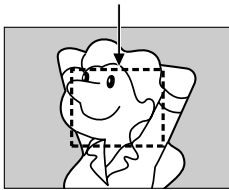
- When shooting using reverse lighting or when the background is too bright.
- When shooting on a reflective natural background such as at the beach or when skiing.
- When the background is overly dark or the subject light.

- 1 Set the Power Switch to "PRO."
- 2 Press the Select Wheel to display the Menu Screen.
- 3 Rotate the Select Wheel to move the highlight bar to "EXPOSURE" and press it. The EXPOSURE Menu appears.
- 4 Rotate the Select Wheel to move the highlight bar to "MANU", then press it. The Menu Screen disappears and "00" (exposure control level counter) appears.
- 5 To brighten the image, rotate the Select Wheel upward. The exposure control level counter increases (maximum +06).  
To darken the image, rotate the Select Wheel downward. The exposure control level counter decreases (maximum -06).
- 6 Press the Select Wheel. The setting is complete. The Menu Screen reappears with the highlight bar on "RETURN".
- 7 Press the Select Wheel. The Menu Screen disappears and the exposure control level counter reappears to indicate the exposure is adjusted.

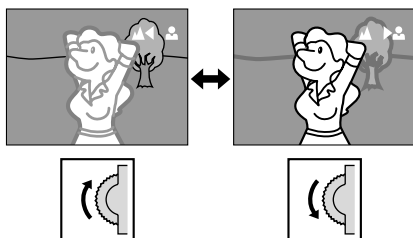
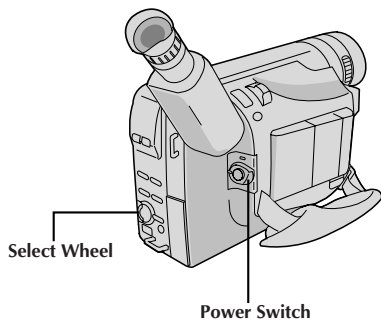
### NOTES:

- To return to the factory setting, select "AUTO" in step 4.
- To re-adjust exposure, repeat the procedure from step 2.

Focus detection zone

**NOTES:**

- If the lens is smeared or blurred, accurate focusing is not possible. Keep the lens clean, wiping with a piece of soft cloth if it gets dirty. When condensation occurs, wipe with a soft cloth or wait for it to dry naturally.
- When shooting a subject close to the lens, zoom out first (☞ pg. 18). If zoomed in in the auto focus mode, the camcorder could automatically zoom out depending on the distance between the camcorder and the subject. This does not occur with "TELE MACRO" (☞ pg. 24).

**Focusing****AUTO FOCUS**

The camcorder's Full Range AF system offers continuous shooting ability from close-up to infinity. However, correct focus may not be obtainable in the situations listed below (in these cases use manual focusing):

- When two subjects overlap in the same scene.
- When illumination is low.\*
- When the subject has no contrast (difference in brightness and darkness), such as a flat, one-color wall, or a clear, blue sky.\*
- When a dark object is barely visible in the viewfinder.\*
- When the scene contains minute patterns or identical patterns that are regularly repeated.
- When the scene is affected by sunbeams or light reflecting off the surface of a body of water.
- When shooting a scene with a high-contrast background.

\* The low-contrast warning "▲▲" appears

**MANUAL FOCUS**

You should already have made the necessary viewfinder adjustments (☞ pg. 15).

- 1 Set the Power Switch to "PRO."
- 2 Press the Select Wheel to display the Menu Screen.
- 3 Rotate the Select Wheel to move the highlight bar to "FOCUS" and press it. The FOCUS Menu appears.
- 4 Rotate the Select Wheel to move the highlight bar to "MANU", then press it. The Menu Screen disappears and "▲" and "▲" appear. The focus is locked at this point.
- 5 To focus on a farther subject, rotate the Select Wheel upward. "◀" appears and blinks.  
To focus on a nearer subject, rotate the Select Wheel downward. "▶" appears and blinks.
- 6 Press the Select Wheel. The setting is complete. The Menu Screen reappears with the highlight bar on "RETURN".
- 7 Press the Select Wheel. The Menu Screen disappears and "▲▲" reappears to indicate the focus is locked.

**NOTES:**

- To return to Auto Focus, select "AUTO" in step 4.
- To re-adjust Manual Focus, repeat the procedure from step 2.
- Be sure to focus the lens in the maximum telephoto position when you use the Manual Focus mode. If you focus in on a certain subject in the wide-angle position, sharply focused images cannot be obtained when zoomed in because the depth-of-field is reduced at longer focal lengths.
- When the focus level cannot be adjusted any farther or closer, "▲" or "▲" will blink.

## White Balance Adjustment

A term that refers to the correctness of color reproduction under various lighting. If the white balance is correct, all other colors will be accurately reproduced.

The white balance is usually adjusted automatically. However, more advanced camcorder operators control this function manually to achieve a more professional color/tint reproduction.

- 1** Set the Power Switch to "PRO".
- 2** Press **MENU**. The Menu Screen appears.
- 3** Rotate the Select Wheel to move the highlight bar to "M.W.B.", then press it. The Menu Screen disappears and the M.W.B. Menu appears.
- 4** Rotate the Select Wheel to move the highlight bar to the desired setting.
  - "**AUTO**"  
White balance is adjusted automatically (factory preset).
  - "☀️ : **FINE**"  
Outdoors on a sunny day.
  - "☁️ : **CLOUD**"  
Outdoors on a cloudy day.
  - "💡 : **HALOGEN**"  
A video light or similar type of lighting is used.
  - "**MWB**"  
White balance is set manually.
- 5** Press the Select Wheel. The Menu Screen reappears with the highlight bar on "RETURN". Press the Select Wheel again to close the Menu Screen.

### To Return To Automatic White Balance . . .

.... select "AUTO" in step 4. Or set the Power Switch to "AUTO".

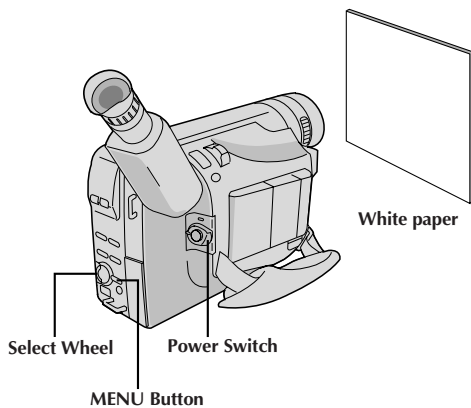
### NOTE:

White balance cannot be used when Sepia (☞ pg. 22) is activated.

## Manual White Balance Operation

Perform Manual White Balance when shooting under various types of lighting.

- 1** Follow steps 1 through 4 of the white balance adjustment, and select "MWB".
- 2** Hold a sheet of plain white paper in front of the subject. Adjust zoom or position yourself so that the white paper fills the screen.
- 3** Press the Select Wheel until "MWB" begins blinking. When the setting is completed, "MWB" stops blinking, and the Menu Screen reappears with the highlight bar on "RETURN".
- 4** Press the Select Wheel again to close the Menu Screen.

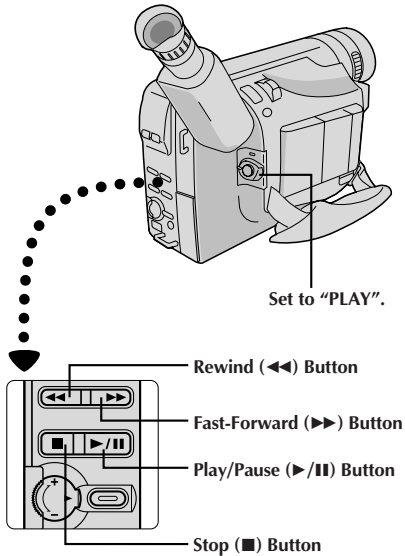


### To Change The Tint For Recording . . .

.... in step 2, substitute colored paper for white. The white balance is adjusted based on the color, changing the tint. Red paper = deeper green; blue paper = orange; yellow paper = deeper purple.

### NOTES:

- In step 2, it may be difficult to focus on the white paper. In such a case, adjust focus manually (☞ pg. 29).
- A subject can be shot under various types of lighting conditions indoors (natural, fluorescent, candlelight, etc.). Because the color temperature is different depending on the light source, the subject tint will differ depending on the white balance settings. Use this function for a more natural result.
- Once you adjust white balance manually, the setting is retained even if the power is turned off or the battery removed.



**1** Load a tape (☞ pg. 10).

**2** Set the Power Switch to "PLAY". To start playback, press ▶/||.

- To stop playback, press ■.
- Press ◀◀ to rewind, or ▶▶ to fast-forward the tape during Stop mode.

**NOTES:**

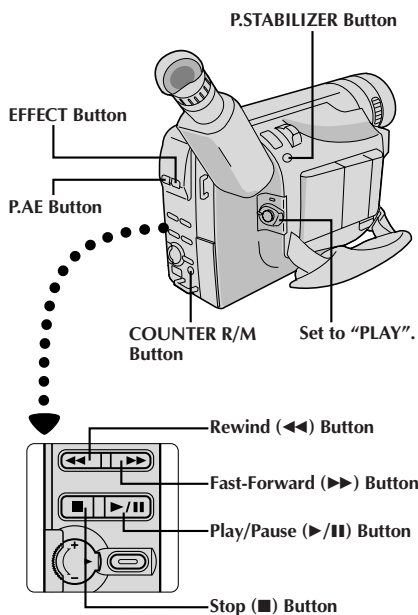
- The camcorder shuts off automatically after about 5 minutes in Stop mode. To turn on again, set the Power Switch to "OFF", then to "PLAY".
- The playback picture can be viewed in the viewfinder or on a connected TV (☞ pg. 34, 35).
- If a blank portion on the tape is played back, the screen may become black. This is not a malfunction.

**Still Playback:** Pauses during playback.

- 1) Press ▶/|| during playback.
  - 2) To resume normal playback, press ▶/|| again.
- Noise bars will appear and the picture will become monochrome during Still Playback.

**Shuttle Search:** Allows high-speed search in either direction.

- 1) Press ▶▶ for forward or ◀◀ for reverse search during playback.
  - 2) To resume normal playback, press ▶/||.
- During playback, press and hold ◀◀ or ▶▶. The search continues as long as you hold the button. Once you release it, normal playback resumes.
  - Noise bars appear and pictures may become monochrome or darken during Shuttle Search. This is normal.



**Tracking:** Eliminates noise bars that appear on-screen during playback. Factory-preset is Auto Tracking.

To activate Manual Tracking:

- 1) Press **P.AE** and **EFFECT** simultaneously. "MT" appears.
- 2) Press **P.AE** or **EFFECT** as many times as necessary until the noise bars disappear.

- To return to Auto Tracking, press **P.AE** and **EFFECT** simultaneously. "AT" blinks. When Auto Tracking finishes, the indication disappears.
- When noise bars appear during playback, the camcorder enters the Auto Tracking mode and "AT" is displayed.
- Manual Tracking may not work with tapes recorded on other VCRs or camcorders.

**TBC (Time Base Corrector):** Removes jitter from fluctuating video signals to deliver a stable picture even with old tapes. Factory-preset: TBC is engaged.

To activate/release the TBC mode, press **P.STABILIZER** during playback for more than 1 second. When the TBC mode is activated, "TBC" is displayed.

- The "TBC" indicator turns green (gray with a camcorder equipped with a black/white viewfinder) while TBC is working.
- TBC does not work during still playback and shuttle search.
- The "TBC" indicator turns white while TBC is not operative.
- It may take a few seconds before TBC actually starts working.
- The picture may be distorted if the TBC mode is activated or deactivated at the edit-in/-out points or when normal playback resumes after still playback or shuttle search.
- If the playback picture is distorted when TBC is set to on, turn off TBC.

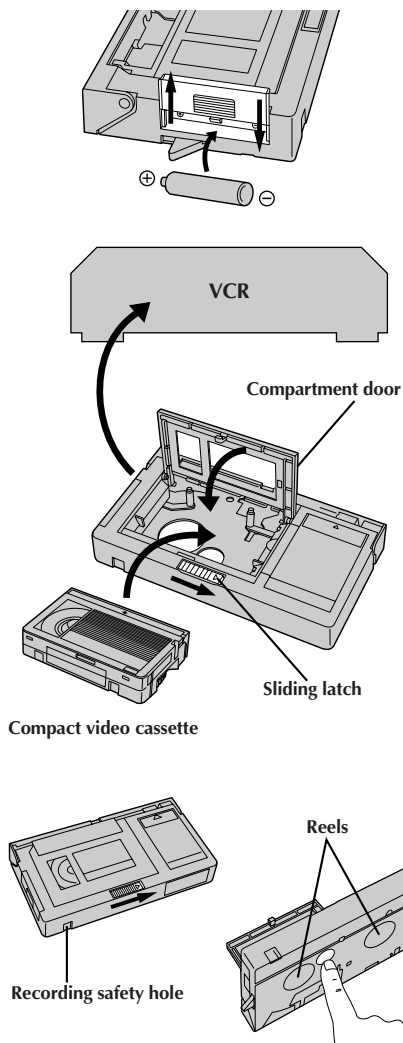
**Counter Memory Function:** Makes it easier to locate a specific tape segment.

- 1) Press **COUNTER R/M** and hold for more than 1 second. The counter resets to "0:00:00".
  - 2) Press **COUNTER R/M** for less than 1 second. "M" appears.
  - 3) After recording or playback, press **■**, then **◀◀**. The tape automatically stops at or close to 0:00:00.
  - 4) Press **▶/||** to start playback.
- The counter memory functions in the Fast-Forward and Rewind modes.
  - To disable the Counter Memory Function, press **COUNTER R/M** for less than 1 second so that "M" disappears.



## Cassette Adapter (VHS Playpak)

Use this to play back an S-VHS-C/VHS-C video cassette recorded with this camcorder on a VHS VCR. It is fully compatible with any S-VHS/VHS video cassette recorder. The C-P7U adapter is battery powered and automatically performs tape loading and unloading.



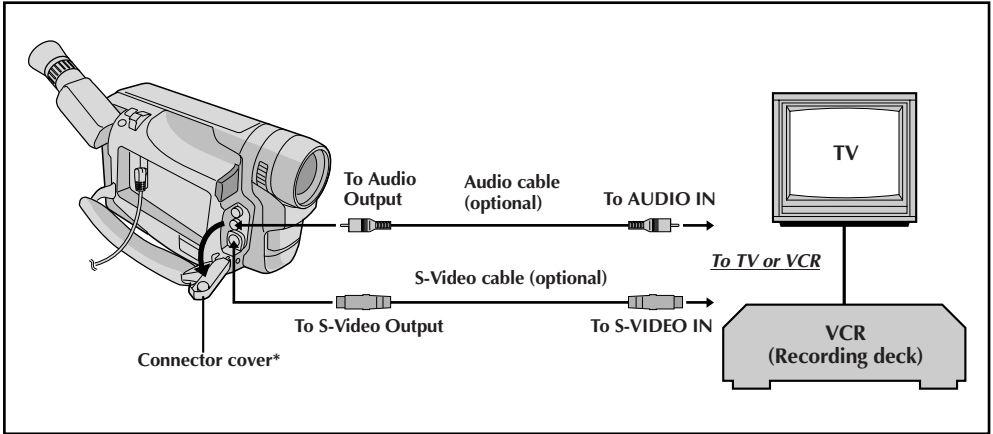
- 1** Slide the battery cover up to remove it, install one "AA (R6)" size battery as shown, then reattach the cover.
- 2** Slide the latch to open the adapter compartment door, then insert the cassette and close the compartment door.
- 3** Load the cassette adapter into the VCR and play the tape back as you would any other.
- 4** Slide the latch and the compartment door opens automatically. This may take around 10 seconds. Do not attempt to force the adapter open. Then, insert your finger in the hole on the underside of the adapter as shown in the illustration at left, and push up and remove the cassette.

### NOTES:

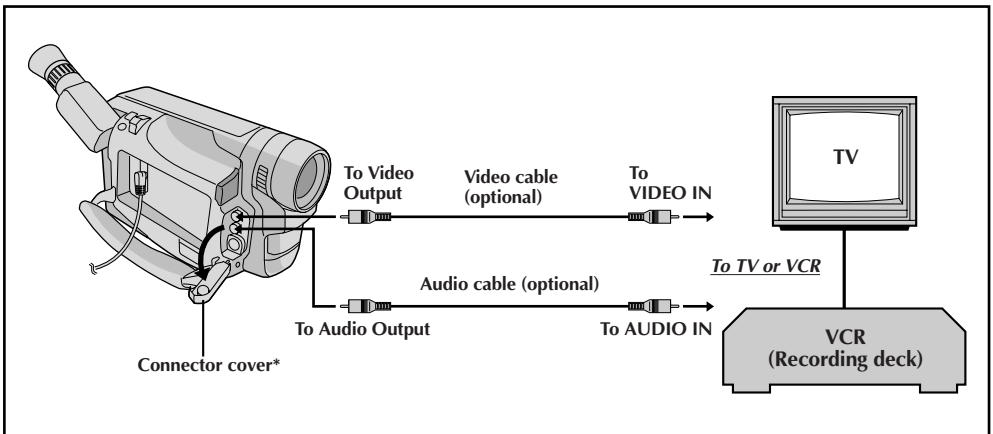
- During tape loading and unloading, do not touch the reels for safety and tape protection.
- Tapes recorded in S-VHS or S-VHS ET mode cannot be played back on a regular VHS VCR. Playback is possible with a VCR equipped with the S-VHS or SQPB (S-VHS QUASI PLAYBACK) function.
- During special-effect playback (slow motion, still frame, etc.), the picture may vibrate or noise bars may appear on the screen.
- To record on a VCR using a compact cassette and the adapter, cover the adapter's recording safety hole with adhesive tape.

These are some basic types of connections. When making connections, refer also to your VCR and TV instruction manuals.

### A. Connection to a TV or VCR equipped with an S-VIDEO IN and A/V input connectors



### B. Connection to a TV or VCR equipped only with A/V input connectors



\* When connecting the cables, open this cover.

## Basic Connections

- 1** Make sure all units are turned off.

---

- 2** Connect the camcorder to a TV or VCR as shown in the illustration (☞ pg. 34).  
*If using a VCR . . . go to step 3.*  
*If not . . . go to step 4.*

---

- 3** Connect the VCR output to the TV input, referring to your VCR's instruction manual.

---

- 4** Turn on the camcorder, the VCR and the TV.

---

- 5** Set the VCR to its AUX input mode, and set the TV to its VIDEO mode.

### NOTES:

- ***It is recommended to use the AC Power Adapter/Charger as the power supply instead of the battery pack (☞ pg. 9).***
- *If your VCR has an S-Video input connector, connect the camcorder and the VCR using an optional S-Video cable. This can improve the dubbed picture quality.*
- *To monitor the picture and sound from the camcorder without inserting a tape, set the camcorder's Power Switch to "CAMERA" ("AUTO" or "PRO."), then set your TV to the appropriate input mode.*
- *Make sure you adjust the TV sound volume to its minimum level to avoid a sudden burst of sound when the camcorder is turned on.*
- *If you have a TV or speakers that are not specially shielded, do not place the speakers adjacent to the TV as interference will occur in the camcorder playback picture.*

## Tape Dubbing

- 1** Following the illustration on pg. 34, connect the camcorder and the VCR.

---

- 2** Set the camcorder's Power Switch to "PLAY", turn on the VCR's power, and insert the appropriate cassettes in the camcorder and the VCR.

---

- 3** Engage the VCR's AUX and Record-Pause modes.

---

- 4** Engage the camcorder's Play mode to find a spot just before the edit-in point. Once it is reached, press ►/|| on the camcorder.

---

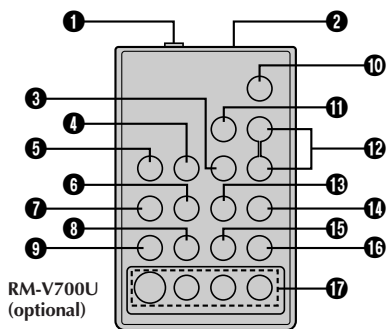
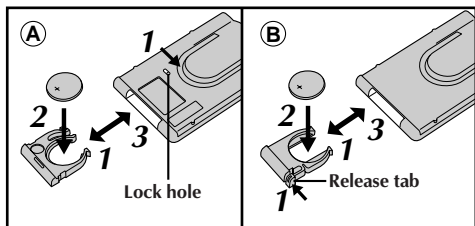
- 5** Press ►/|| on the camcorder and engage the VCR's Record mode.

---

- 6** Engage the VCR's Record-Pause mode and press ►/|| on the camcorder.

---

- 7** Repeat steps 4 through 6 for additional editing, then stop the VCR and camcorder when finished.



The Full-Function Remote Control Unit can operate this camcorder from a distance as well as the basic operations (Playback, Stop, Pause, Fast-Forward and Rewind) of your VCR. The RM-V700U remote control unit (optional) makes additional recording functions possible.

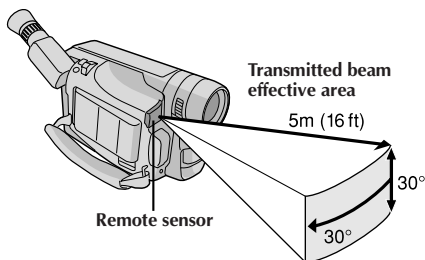
## Installing The Batteries

The remote control uses one lithium battery (CR2025).

- 1** Ⓐ : Pull out the battery holder while sliding the lock hole.
- Ⓑ : Pinch the release tab and pull out the battery holder.
- 2** Insert the battery in the holder, and be sure to have the "+" mark visible.
- 3** Slide the holder back in until you hear a click.
  - Read the caution concerning lithium batteries (☞ pg. 2).

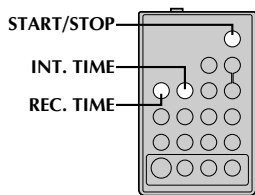
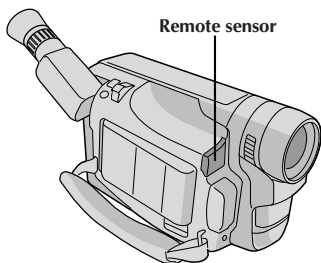
Buttons	Functions	
	With the camcorder's Power Switch set to "CAMERA", "AUTO" or "PRO."	With the camcorder's Power Switch set to "PLAY".
<b>1</b> PAUSE IN Connector*	—	
<b>2</b> Infrared beam transmitting window	Transmits the beam signal.	
<b>3</b> MBR SET Button*	—	
<b>4</b> INT. TIME Button SELF-TIMER Button*	Time-Lapse (☞ pg. 37)	—
<b>5</b> REC TIME Button ANIM. Button	Animation/Time-Lapse (☞ pg. 37)	—
<b>6</b> FF Button	Retake (forward) (☞ pg. 19)	Fast-Forward, Forward Shuttle Search (☞ pg. 31)
<b>7</b> REW Button	Retake (rewind), Quick Review (☞ pg. 19)	Rewind, Reverse Shuttle Search (☞ pg. 31)
<b>8</b> PAUSE Button	—	Pause (☞ pg. 31)
<b>9</b> PLAY Button	—	Playback start (☞ pg. 31)
<b>10</b> START/STOP Button	Functions same as the Recording Start/Stop button on the camcorder.	
<b>11</b> VISS Button*	—	
<b>12</b> ZOOM (T/W) Buttons	Zoom in/out (☞ pg. 18)	—
<b>13</b> VCR CTL. Button*	—	
<b>14</b> A.DUB Button	—	Audio dubbing (☞ pg. 39)
<b>15</b> STOP Button	—	Stop (☞ pg. 31)
<b>16</b> INSERT Button	—	Insert Editing (☞ pg. 38)
<b>17</b> R. A. EDIT Buttons*	—	

\*This function is unavailable with this camcorder.



When using the remote control, be sure to point it at the remote sensor. The illustration shows the approximate transmitted beam effective area for indoor use.

The transmitted beam may not be effective or may cause incorrect operation outdoors or when the remote sensor is directly exposed to sunlight or powerful lighting.



RM-V700U  
(optional)

## FEATURE: Animation and Time-Lapse

### PURPOSE:

The remote control lets you set/release Interval Time and Recording Time without using the Menu Screen.

### OPERATION:

#### Animation

##### 1) Set

Instead of performing steps 1 and 2 on pg. 27 ("Animation"), press **REC TIME** on the remote control. Each time **REC TIME** is pressed, the Recording Time indicator appears, changing in the following order: 1/4S, 1/2S, 1S, 5S and no indication (off).

##### 2) Release

Instead of using the Menu in step 5 on pg. 27, press **REC TIME** on the remote control until the Recording Time indicator disappears.

#### Time-Lapse

##### 1) Set

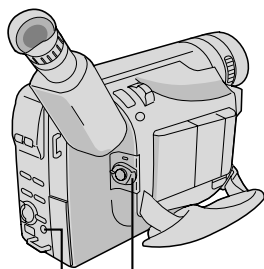
Instead of performing steps 1 through 3 on pg. 27 ("Time-Lapse"), press **INT. TIME** and **REC TIME** on the remote control. Each time **INT. TIME** is pressed, the Interval Time indicator appears, changing in the following order: 15S, 30S, 1MIN, 5MIN and no indication (off). Each time **REC TIME** is pressed, the Recording Time indicator appears, changing in the following order: 1/4S, 1/2S, 1S, 5S and no indication (off).

##### 2) Release

Instead of using the Menu in step 5 on pg. 27, press **INT. TIME** and **REC TIME** on the remote control until the indicators disappear.

### NOTE:

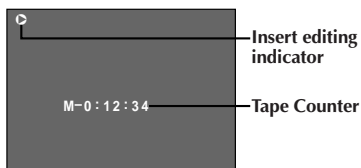
Also refer to page 27.



Power Switch

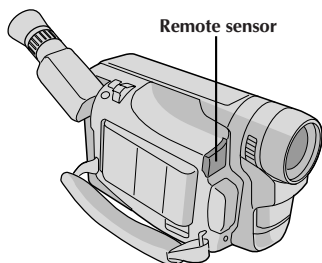
COUNTER R/M Button

Display

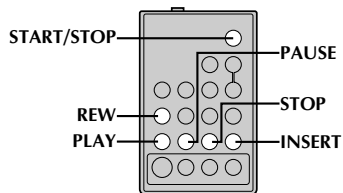


Insert editing indicator

Tape Counter



Remote sensor

RM-V700U  
(optional)

## Insert Editing

You can record a new scene onto a previously recorded tape, replacing a section of the original recording with minimal picture distortion at the in- and out-points. The original audio remains unchanged.

### NOTE:

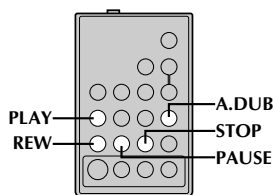
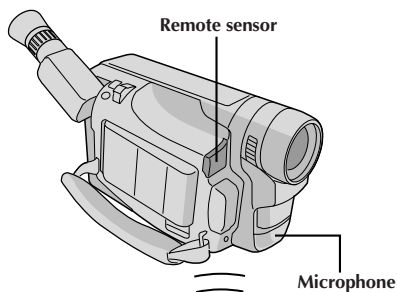
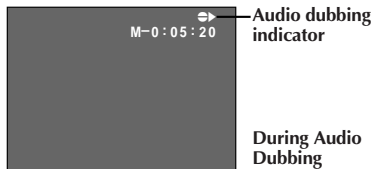
Use the RM-V700U remote control unit to perform this procedure.

- 1 Set the Power Switch to "PLAY".
- 2 Play back the tape, locate the Edit-Out point and press **PAUSE**.
- 3 Press and hold **COUNTER R/M** on the camcorder for more than 1 second to reset the tape counter, then press again for less than 1 second so that "M" appears.
- 4 Press **REW** to go a little beyond the beginning of the scene you want to replace, press **PLAY** to view the recorded tape, and press **PAUSE** exactly at the Edit-In point where the new scene should start.
- 5 Press and hold **INSERT**, and without releasing **INSERT**, press and release **PAUSE**. The Insert Editing indicator appears and the Insert Editing mode is engaged. When the scene the camcorder is aimed at appears on the screen, go to the next step.
- 6 To begin Insert Editing, press **START/STOP**. When the counter reaches "0:00:00", editing stops automatically and the camcorder enters the Insert-Pause mode.
- 7 To end Insert Editing, press **STOP**.

### NOTES:

- During Insert Editing, the original audio will be heard from the speaker.
- After step 5, Retake (see pg. 19) can be performed.
- The tape may stop slightly before or after the designated end point, and noise bars may appear. Neither indicates a defect in the unit.
- Only the video signal is recorded in the Insert Editing mode.

Display

RM-V700U  
(optional)

## Audio Dubbing

You can record a new soundtrack on a prerecorded tape (normal audio only). The sound is recorded from the built-in microphone.

**Perform steps 1, 2 and 3 of the Insert Editing procedure (pg. 38) before continuing.**

### NOTE:

Use the RM-V700U remote control unit to perform the following procedures.

- 1** Press **REW** to go a little beyond the beginning of the scene onto which you want to dub the new audio, press **PLAY** to view the recorded tape, then press **PAUSE** at exactly the point where dubbing should start.
- 2** Press and hold **A. DUB**, and without releasing **A. DUB**, press and release **PAUSE**. The Audio Dub-Standby mode is engaged.
- 3** To begin Audio Dubbing, press **PLAY**. When the counter reaches "0:00:00", Audio Dubbing stops automatically and the camcorder enters the Audio Dub-Standby mode.
- 4** To end Audio Dubbing, press **STOP**.

### NOTES:

- Do not press **FF** or **REW** during Audio Dub-Standby, or the edit points will not be accurate.
- If the microphone is too close to the TV, or if the TV's volume is too high, whistling or howling may occur.

### NOTES

#### (for Insert Editing and Audio Dubbing):

- Insert Editing and Audio Dubbing may not work correctly if the tape contains blank segments, or if the recording speed was changed during the original recording.
- To edit/dub onto a tape, make sure the Erase Protection tab is in the position that allows recording. If not, slide the tab. Some cassettes have removable tabs. If the tab has been removed, cover the hole with adhesive tape.
- Do not press **STOP** during Insert Editing or Audio Dubbing, or the edit points will not be accurate.
- During Insert Editing and Audio Dubbing, when Insert-Pause or Audio Dub-Standby is engaged, the counter may go slightly past "0:00:00". Recording, however, stops at exactly 0:00:00.

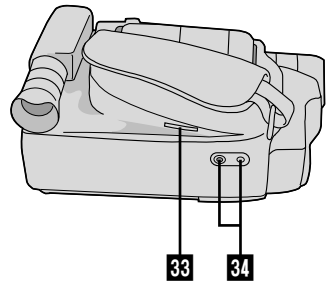
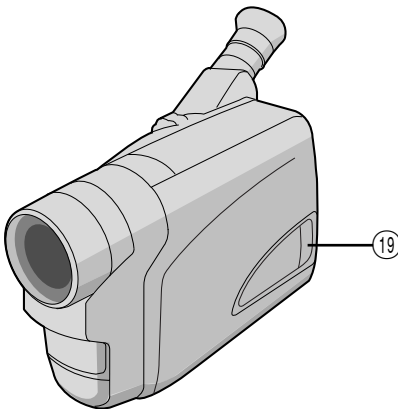
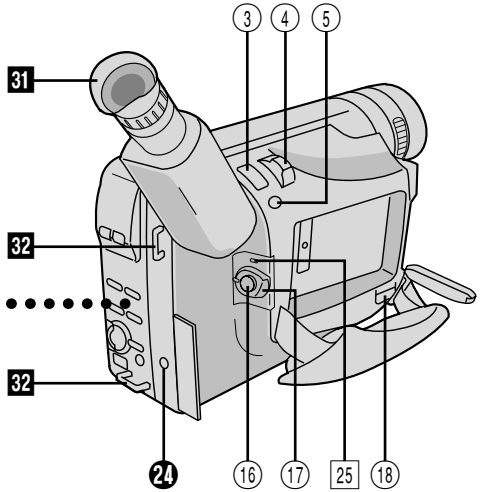
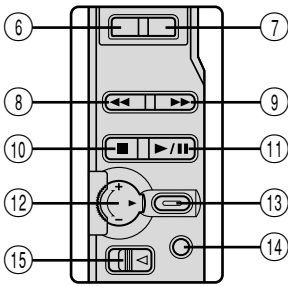
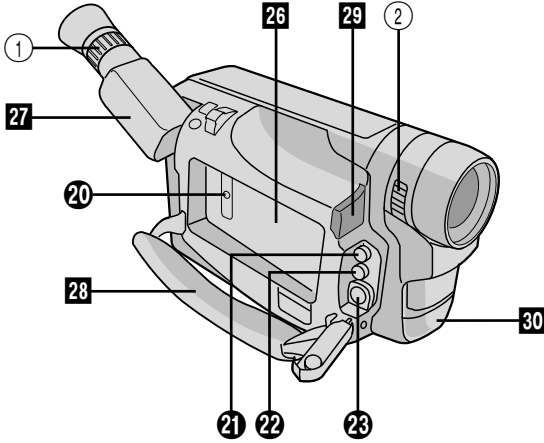
If, after following the steps in the chart below, the problem still exists, please consult your JVC dealer.

The camcorder is a microcomputer-controlled device. External noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such cases, first disconnect its power supply unit (battery pack, AC Power Adapter/Battery Charger, etc.) and clock battery; and then re-connect it and proceed as usual from the beginning.























SYMPTOM	POSSIBLE CAUSE(S)
<b>POWER</b>	
<b>No power is supplied.</b>	<ul style="list-style-type: none"> <li>● The battery pack has not been attached correctly (☞ pg. 8).</li> <li>● The battery pack is not charged (☞ pg. 8).</li> <li>● The power supply has not been correctly connected (☞ pg. 9).</li> </ul>
<b>The power suddenly goes off and does not come back on by itself.</b>	<ul style="list-style-type: none"> <li>● The battery pack has completely discharged.</li> <li>● Remove the cassette and disconnect the power source, then after a few minutes, try turning the power back on. If it still does not come on, consult your nearest JVC dealer.</li> </ul>
<b>RECORDING</b>	
<b>Recording cannot be performed.</b>	<ul style="list-style-type: none"> <li>● Make sure the Erase Protection tab is in the position that allows recording. If not, slide the tab. Some cassettes have removable tabs. If the tab has been removed, cover the hole with adhesive tape (☞ pg. 10).</li> </ul>
<b>Recording does not start.</b>	<ul style="list-style-type: none"> <li>● The camcorder Power Switch has not been set to "CAMERA" ("AUTO" or "PRO".) (☞ pg. 16).</li> </ul>
<b>Animation or Time-Lapse is not available.</b>	<ul style="list-style-type: none"> <li>● Before recording in the Animation mode at the very beginning of a tape, set the camcorder to the Recording mode for about 5 seconds, so that the tape runs smoothly. Using the Fade-in function at this point is a good way to begin an animated program (☞ pg. 27, 37).</li> </ul>
<b>PLAYBACK</b>	
<b>The tape is running, but there is no playback picture.</b>	<ul style="list-style-type: none"> <li>● The TV has not been set to its VIDEO mode or channel.</li> <li>● If A/V connection is used, the TV's VIDEO/TV Switch has not been set to VIDEO.</li> </ul>
<b>Playback picture is blurred or interrupted.</b>	<ul style="list-style-type: none"> <li>● The video heads are dirty or worn out. Consult your nearest JVC dealer for head cleaning or replacement.</li> </ul>
<b>The counter indication is blurred during Still playback.</b>	<ul style="list-style-type: none"> <li>● This is normal.</li> </ul>
<b>TAPE TRANSPORT</b>	
<b>The tape stops during fast-forward or rewind.</b>	<ul style="list-style-type: none"> <li>● The Counter Memory Function has been activated (☞ pg. 32).</li> </ul>
<b>Rewinding or fast-forwarding cannot be performed.</b>	<ul style="list-style-type: none"> <li>● The tape is already fully wound on one reel or the other.</li> </ul>







SYMPTOM	POSSIBLE CAUSE(S)
<b>OTHER</b>	
During recording, the indications do not appear.	<ul style="list-style-type: none"> <li>● Press <b>DISPLAY</b> for longer than 1 second to make the indications appear (☞ pg. 17).</li> </ul>
The tape will not eject.	<ul style="list-style-type: none"> <li>● The battery pack is running low.</li> </ul>
Some functions are not available.	<ul style="list-style-type: none"> <li>● The Power Switch is set to "AUTO".</li> <li>● Certain combinations of modes or effects are not possible to use.</li> </ul>
Vertical white lines appear when shooting a very bright object.	<ul style="list-style-type: none"> <li>● This sometimes occurs when the contrast between the background and the object is great. It is not a defect of the camcorder.</li> </ul>
The picture is blurred in the Quick Review or Retake mode.	<ul style="list-style-type: none"> <li>● This is normal while recording in the EP mode. Some noise may be present while recording in the SP mode (☞ pg. 12).</li> </ul>
An error number (i.e. E03) appears.	<ul style="list-style-type: none"> <li>● Turn the camcorder's power off, then disconnect the power source. After a few minutes, try turning the power on again. If the error number still appears in the viewfinder, consult your nearest JVC dealer.</li> </ul>
The image is out of focus.	<ul style="list-style-type: none"> <li>● The diopter needs to be adjusted (☞ pg. 15).</li> <li>● The scene being shot is adversely affecting the operation of Auto Focus (☞ pg. 29).</li> </ul>
The date and time displays disappear.	<ul style="list-style-type: none"> <li>● If you remove the power source from the camcorder while the power is on, all settings and selections are erased. Make sure to turn the camcorder's power off before disconnecting the power source.</li> </ul>
The wrong date and time are displayed/recorded.	<ul style="list-style-type: none"> <li>● If you have not performed Date/Time Setting (☞ pg. 11), the date and time are not displayed/recorded correctly. Be sure that Date/Time setting is carried out.</li> </ul>
Even though the lens cover is open, the Lens Cover Warning indicator blinks.	<ul style="list-style-type: none"> <li>● The Lens Cover Warning indicator may blink when the camcorder is used in dark areas, regardless of the position of the lens cover.</li> </ul>




## Controls

- ① Diopter Adjustment Control .....  pg. 15
- ② Lens Cover Open/Close Ring .....  pg. 16
- ③ 5-Second Recording Button  
[5 SEC. REC] .....  pg. 20
- ④ Power Zoom Lever [T/W] .....  pg. 18
- ⑤ • Picture Stabilizer Button  
[P.STABILIZER] .....  pg. 18
  - Time Base Corrector Button .....  pg. 32
- ⑥ Program AE Button [P.AE] .....  pg. 22
- ⑦ Fade/Wipe Button [EFFECT] .....  pg. 21
- ⑧ • Retake Rewind Button [RETAKE R] .....  pg. 19
  - Quick Review Button [Q.R] .....  pg. 19
  - Rewind Button [REW] .....  pg. 31
- ⑨ • Retake Forward Button [RETAKE F] ....  pg. 19
  - Fast-Forward Button [FF] .....  pg. 31
- ⑩ Stop Button [STOP] .....  pg. 31
- ⑪ Play/Pause Button [PLAY/PAUSE] .....  pg. 31
- ⑫ Select Wheel [PUSH] .....  pg. 23
- ⑬ MENU/DISPLAY Button .....  pg. 17, 23
- ⑭ • Recording Mode Button [SP/EP] .....  pg. 12
  - Counter Reset/Memory Button  
[COUNTER R/M] .....  pg. 32
- ⑮ EJECT Switch .....  pg. 10
- ⑯ Recording Start/Stop Button .....  pg. 16
- ⑰ Power Switch  
[PLAY, OFF, AUTO, PRO.] .....  pg. 16, 31
- ⑱ Battery Release Switch  
[BATTERY RELEASE] .....  pg. 9
- ⑲ PUSH Button .....  pg. 10










## Connectors

- ⑳ DC IN Connector .....  pg. 9
- The connectors ㉑ to ㉔ are located beneath the cover.
- ㉑ Video Output Connector .....  pg. 34
  - ㉒ Audio Output Connector .....  pg. 34
  - ㉓ S-Video Output Connector .....  pg. 34
  - ㉔ J Terminal  
[JLIP (Joint Level Interface Protocol) Connector]
    - It is used to connect the camcorder to a device such as a personal computer.  
For further details consult your nearest JVC dealer.
    - JLIP-controlled editing from camcorder to VCR is not possible if the VCR is not equipped with a J terminal.

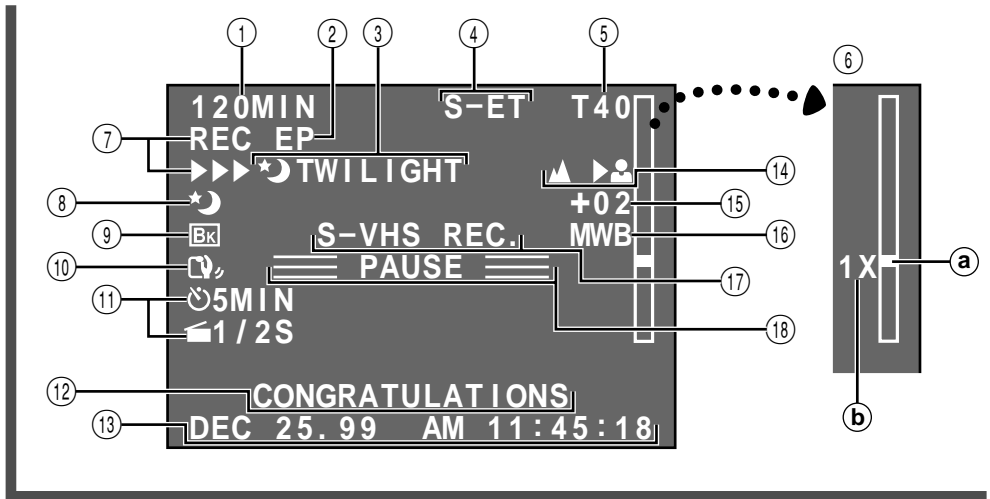
## Indicators

- ㉕ Power Lamp .....  pg. 16

## Other Parts

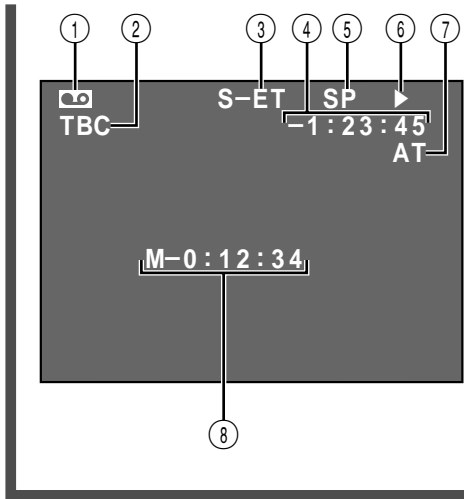
- ㉖ Battery Pack Mount .....  pg. 9
- ㉗ Viewfinder .....  pg. 15
- ㉘ Grip Strap .....  pg. 15
- ㉙ • Camera sensor  
Be careful not to cover this area; a sensor necessary for shooting is built-in here.
  - Remote Sensor .....  pg. 36
- ㉚ Microphone .....  pg. 39
- ㉛ Eyepiece .....  pg. 50
- ㉜ Shoulder Strap Eyelets .....  pg. 15
- ㉝ Clock Battery Slot .....  pg. 10
- ㉞ Tripod Mounting Socket .....  pg. 15

## Indications During Recording



- ① Tape Remaining Time ..... pg. 17  
Blinks when a tape is about to reach its end.
- ② Recording Mode Indicator (SP/EP) ..... pg. 12
- ③, ⑧ Program AE Indicator ..... pg. 22  
Displayed at ③ for approx. 2 seconds when Program AE with special effects is switched from one mode to another by pressing **P.AE.**, then only the indicator remains at ⑧.
- ③, ⑨ Fade/Wipe-Standby Indicator ..... pg. 21  
Displayed at ③ for approx. 2 seconds when the Fade/Wipe is switched from one effect to another by pressing **EFFECT**, then only the indicator remains at ⑨.
- ④ Recording Format Indicator (S/S-ET) ..... pg. 13
- ⑤ Tape Length Indicator ..... pg. 12
- ⑥ Zoom Indicator Bar ..... pg. 18
  - Ⓐ Zoom Level Indicator
  - Ⓑ Approximate Zoom Ratio
- ⑦ Recording Indicator ..... pg. 16
- ⑩ Picture Stabilizer Indicator ..... pg. 18
- ⑪ • Interval Timer/Recording Time Indicator ..... pg. 27  
• 5 Sec. Rec Mode Indicator ..... pg. 20
- ⑫ Instant Title Display ..... pg. 26
- ⑬ Date/Time Display ..... pg. 26
- ⑭ Focus Indicator ..... pg. 29
- ⑮ Exposure Control Level Counter ..... pg. 28
- ⑯ White Balance Mode Indicator ..... pg. 30
- ⑰ S-VHS/S-VHS ET Recording Indicator ... pg. 13
- ⑱ Record-Standby Mode Indicator ..... pg. 16

## Indications During Playback



- ① : Cassette Indicator  
Displayed when a tape is loaded.
- : Insert Editing Indicator ..... (pg. 38)  
Displayed during Insert Editing.
- ② TBC Indicator ..... (pg. 32)
- ③ Recording Format Indicator (S/S-ET) ..... (pg. 13)
- ④ Tape Counter ..... (pg. 32, 38)
- ⑤ Recording Mode Indicator (SP/EP) ..... (pg. 12)
- ⑥ Tape Running Indicator  
▶ : Playback  
▶▶ : Fast-Forward/Shuttle Search  
◀◀ : Rewind/Shuttle Search  
|| : Pause  
◀▶ : Audio Dubbing
- ⑦ Tracking Indicator ..... (pg. 32)
- ⑧ Tape Counter ..... (pg. 38)  
Displayed only during Insert Editing.

## Warning Indications

Indications	Function
	<p>Displays the battery remaining power.</p> <p>Remaining power level: high. It does not necessarily mean that the battery pack is fully charged. </p> <p>Remaining power level: exhausted </p> <p>As the battery power comes close to nil, the battery indicator  blinks (battery power warning).</p> <p>When the battery power is exhausted, power turns off automatically.</p>
	Blinks when no cassette is loaded, or when the Erase Protection tab is not in the position that allows recording. (pg. 10)
	Blinks for approx. 10 seconds when the power is turned on. This display also blinks when the clock (lithium) battery is either not installed or has discharged. Install or replace the old battery with a new one. (pg. 10)
TAPE END	Appears when the tape ends during recording, playback or fast-forward. (pg. 17)
LENS COVER	Blinks for approx. 5 seconds when the camcorder is turned on with the lens cover closed. (pg. 16)
CONDENSATION PLEASE WAIT	These 2 warnings appear alternately every 3 seconds if condensation occurs. In this case, all functions except tape eject and power on/off are disabled. Turn the unit off (without removing the power supply), wait a few minutes for the warnings to clear, and turn it on again.
TAPE HEAD IS DIRTY USE CLEANING CASSETTE	These 2 warnings appear alternately every 3 seconds if dirt is detected on the heads during recording. In this case, use an optional cleaning cassette. If the warning remains after cleaning, consult your nearest JVC dealer.
E01 — E06 SAFEGUARD FUNCTION HAS BEEN ACTIVATED REATTACH BATTERY	The error indications (E01 — E06) show what type of malfunction has occurred. If an error indication and warning appear, turn the unit off, remove the power supply (battery, etc.) and wait a few minutes for them to clear. When it does, you can resume using the camcorder. If the indication remains, consult your nearest JVC dealer.

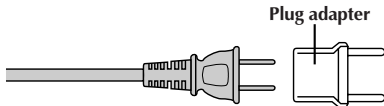
### When using the AC Power Adapter/Charger in areas other than the USA

- The provided AC Power Adapter/Charger 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.



### INFORMATION

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

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

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.

### General Battery Precautions

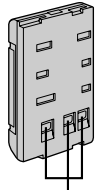
- When the C-P6U or C-P7U (cassette adapter) is not functioning even when correctly operated, the battery is exhausted. Replace it with a fresh one.
- Use only the following battery:  
C-P6U or C-P7U ..... AA (R6) size

Please make note of the following rules for battery use. When misused, battery can leak or explode.

1. Refer to the C-P6U/C-P7U instructions when replacing the battery.
2. **Do not** expose the battery to excessive heat as it can leak or explode.
3. **Do not** dispose of battery in a fire.
4. Remove battery from the unit if it is to be stored for an extended period to avoid battery leakage which can cause malfunctions.

### Battery Packs

The battery packs are nickel-cadmium or nickel metal-hydride batteries. Before using the supplied battery pack or an optional battery pack, be sure to read the following cautions:



1. **To avoid hazard . . .**
  - ... **do not** burn.
  - ... **do not** short-circuit the terminals.
  - ... **do not** modify or disassemble.
  - ... use only specified chargers.
2. **To prevent damage and prolong service life . . .**
  - ... **do not** subject to unnecessary shock.
  - ... avoid repeated charging without fully discharging.
  - ... charge in an environment where temperatures are within the tolerances shown in the chart below. This is a chemical reaction type battery—cooler temperatures impede chemical reaction, while warmer temperatures can prevent complete charging.
  - ... store in a cool, dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
  - ... avoid prolonged uncharged storage.
  - ... remove from charger or powered unit when not in use, as some machines use current even when switched off.

**NOTES:**

- *It is normal for the battery pack to be warm after charging, or after use.*  
Temperature Range Specifications  
Charging ..... 10°C to 35°C (50°F to 95°F)  
Operation ..... 0°C to 40°C (32°F to 104°F)  
Storage ..... -10°C to 30°C (14°F to 86°F)
- *Recharging time is based on room temperature of 20°C (68°F).*
- *The lower the temperature, the longer recharging takes.*

**Cassettes**

To properly use and store your cassettes, be sure to read the following cautions:

**1. During use . . .**

- ... make sure the cassette bears the VHS-C mark.
- ... be aware that recording onto prerecorded tapes automatically erases the previously recorded video and audio signals.
- ... make sure the cassette is positioned properly when inserting.
- ... do not load and unload the cassette repeatedly without allowing the tape to run at all. This slackens the tape and can result in damage.
- ... do not open the front tape cover. This exposes the tape to fingerprints and dust.

**2. Store cassettes . . .**

- ... away from heaters or other heat sources.
- ... out of direct sunlight.
- ... where they won't be subject to unnecessary shock or vibration.
- ... where they won't be exposed to strong magnetic fields (such as those generated by motors, transformers or magnets).
- ... vertically, in their original cases.

**Main Unit****1. For safety, DO NOT . . .**

- ... open the camcorder's chassis.
- ... disassemble or modify the unit.
- ... short-circuit the terminals of the battery pack.  
Keep it away from metallic objects when not in use.
- ... allow inflammables, water or metallic objects to enter the unit.
- ... remove the battery pack or disconnect the power supply while the power is on.
- ... leave the battery pack attached when the camcorder is not in use.

**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.

**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.
- ... direct the eyepiece of the viewfinder at the sun.
- ... carry it by holding the viewfinder. Be sure to hold the main unit with both hands or use the grip.
- ... swing it excessively when using the shoulder strap.

**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 head drum of a camcorder 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.
- Moisture on the head drum can cause severe damage to the video tape, and can lead to internal damage to the camcorder itself.

**Serious malfunctioning**

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

**A**

AC Power Adapter/Charger .....	pg. 8, 9
Animation Recording .....	pg. 27, 37
Audio Dubbing .....	pg. 39
Auto Date Record .....	pg. 26
Auto Focus .....	pg. 29
Auto Shut Off .....	pg. 17, 31

**B**

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**C**

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Clean The Camcorder .....	pg. 50
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Connection To A VCR/TV .....	pg. 34
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**D**

Darken The Image .....	pg. 28
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Demonstration Mode .....	pg. 7, 25
Digital Zoom .....	pg. 24
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**E**

Electronic Fog Filter Mode .....	pg. 22
Erase Protection .....	pg. 10
Exposure Control .....	pg. 28

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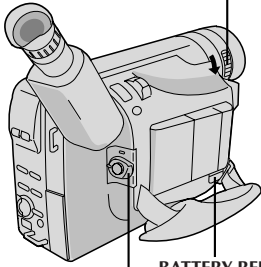
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**Z**

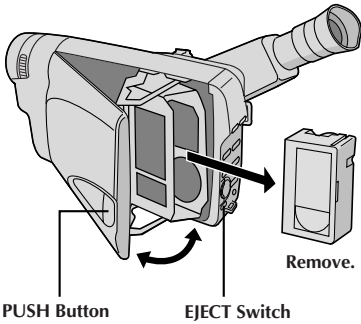
Zooming .....	pg. 18
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LENS COVER Open/Close Ring



BATTERY RELEASE

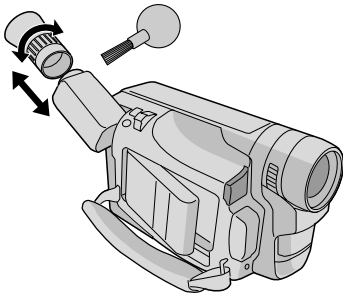
Set to "OFF".



PUSH Button

EJECT Switch

Remove.



## After Use

- 1 Turn off the camcorder.
- 2 Slide **EJECT** to open the cassette holder, then remove the cassette.
- 3 Press **PUSH** to close and lock the cassette holder.
- 4 Slide **BATTERY RELEASE** to remove the battery pack.
- 5 Turn the **LENS COVER Open/Close Ring** to close the lens cover.

## Cleaning The Camcorder




- 1 To clean the exterior, wipe gently with a soft cloth. Put the cloth in diluted mild soap and wring it well to wipe off heavy dirt. Then wipe again with a dry cloth.
- 2 To clean the lens, blow it with a blower brush, then wipe gently with lens cleaning paper.
- 3 To detach the eyepiece, turn it counterclockwise and pull it out.
- 4 Remove dust from the viewfinder using a blower brush.
- 5 Re-attach the eyepiece and turn it clockwise.

### NOTES:

- Avoid using strong cleaning agents such as benzine or alcohol.
- Cleaning should be done only after the battery pack has been removed or other power units have been disconnected.
- Mold may form if the lens is left dirty.
- When using a cleaner or chemically treated cloth refer to the cautions of each product.
- When removing the eyepiece, be sure to hold the viewfinder securely.

## Camcorder

### General

<b>Format</b>	: VHS NTSC standard
<b>Power source</b>	: DC 6.0 V 
<b>Power consumption</b>	: 3.6 W
<b>Signal system</b>	: NTSC-type
<b>Video recording system</b>	
<b>Luminance</b>	: FM recording
<b>Color</b>	: Converted sub-carrier direct recording Conforms to VHS standard
<b>Cassette</b>	:  /  cassette

### Tape speed

<b>SP</b>	: 33.35 mm/sec. (1-5/16 ips)
<b>EP</b>	: 11.12 mm/sec. (7/16 ips)

### Recording time (max.)

<b>SP</b>	: 40 minutes
<b>EP</b>	: 120 minutes (with TC-40)

### Operating temperature

	: 0°C to 40°C (32°F to 104°F)
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### Operating humidity

	: 35% to 80%
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### Storage temperature

	: -20°C to 50°C (-4°F to 122°F)
--	------------------------------------

### Weight

	: Approx. 730 g (1.6 lbs)
--	---------------------------

### Dimensions

	: 198 (W) x 119 (H) x 91 (D) mm (7-13/16" x 4-11/16" x 3-5/8") (with the viewfinder fully tilted downward)
--	--

### Pickup

	: 1/4" format CCD
--	-------------------

### Lens

	: F1.6, f = 3.9 to 62.4 mm, 16:1 power zoom lens with auto iris and macro control, filter diameter 40.5 mm
--	---

### Viewfinder

	: Electronic viewfinder with 0.55" color LCD
--	---

### White balance adjustment

	: Auto/Manual adjustment
--	--------------------------

### Connectors

<b>JLIP</b>	: ø3.5 mm, 4-pole, mini-head jack (compatible with RC-5325 plug)
<b>Video</b>	: 1 Vp-p, 75 Ω unbalanced, analog output (via Video output connector)
<b>Audio</b>	: -8 dBs, 1 kΩ analog output (via Audio output connector)
<b>S-Video</b>	: <b>Y</b> : 1 Vp-p, 75 Ω, analog output <b>C</b> : 0.29 Vp-p, 75 Ω, analog output

## AC Power Adapter/Charger AA-V16U



### Power requirement

<b>U.S.A. and Canada</b>	: AC 120 V~, 60 Hz
<b>Other countries</b>	: AC 110 V to 240 V~, 50/60 Hz

### Power consumption

	: 23 W
--	--------

### Output

<b>Charge</b>	: DC 8.5 V  , 1.3 A
<b>VTR</b>	: DC 6.3 V  , 1.8 A

### Charging system

	: Constant current, peak detection, timer controlled
--	--

### Dimensions

	: 125 (W) x 42 (H) x 68 (D) mm (4-15/16" x 1-11/16" x 2-11/16")
--	---

### Weight

	: Approx. 270 g (0.6 lbs)
--	---------------------------

## Cassette Adapter C-P7U

### Dimensions

	: 188 (W) x 25 (H) x 104 (D) mm (7-7/16" x 1" x 4-1/8")
--	---



### Weight

	: Approx. 240 g (0.53 lbs)
--	----------------------------

### Accessory

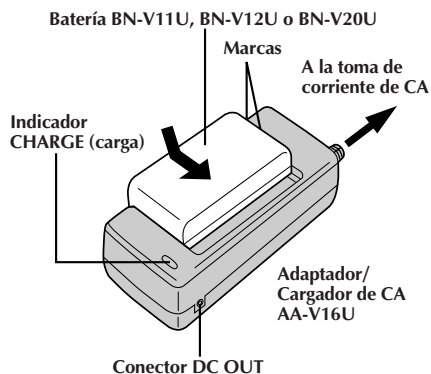
	: "AA (R6)"-size battery x 1
--	------------------------------

### Optional Accessories

- Battery Packs BN-V12U, BN-V20U, BN-V856U
- Car Battery Charger BH-V3U
- Battery Charger BH-VC10U
- Audio/Video Cable
- S-Video Cable QAM0004-004
- Car Battery Cord AP-V7U
- Compact S-VHS () Cassettes ST-C-40/30/20
- Compact VHS () Cassettes TC-40/30/20
- Remote Control Unit RM-V700U
- Active Carrying Bag CB-V7U

Some accessories are not available in some areas. Please consult your nearest JVC dealer for details on accessories and their availability.

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.



## Alimentación

Esta cámara de video posee un sistema de alimentación de 3 vías que le permite seleccionar la fuente de alimentación más apropiada. No utilice las unidades de alimentación suministradas con otro equipo.

## CARGA DE LA BATERIA

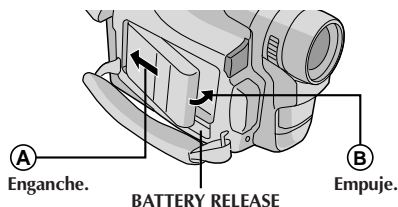
- 1 Asegúrese de desconectar el cable CC de la cámara de video del adaptador/cargador de CA. Conecte el cable de alimentación de CA del cargador a una toma de corriente.
- 2 Alinee las marcas y deslice la batería en la dirección de la flecha hasta que quede bloqueada en su lugar. El indicador CHARGE comienza a destellar para indicar que se ha iniciado la carga.
- 3 Cuando el indicador CHARGE deja de destellar y permanece encendido, la carga ha terminado. Deslice la batería en el sentido opuesto al de la flecha y retírela. Recuerde de desconectar el cable de alimentación del adaptador/cargador de CA de la toma de corriente alterna.

Batería	Tiempo de carga
BN-V11U	aprox. 1 h 10 min
BN-V12U (opcional)	aprox. 1 h 10 min
BN-V20U (opcional)	aprox. 1 h 50 min

### ATENCIÓN:

La carga de la batería sin que esté completamente agotada afectará a la capacidad original de ésta. Efectué el procedimiento abajo para descargar totalmente la batería antes de recargarla.

1. Coloque la batería en la cámara de video y asegúrese que el cassette esté **no** colocado, luego ajuste el conmutador de alimentación en "AUTO" o "PRO".
2. La alimentación de la cámara de video se desconectará automáticamente cuando la descarga termina. Cuando usted no vaya a usar una batería por un período prolongado, asegúrese de descargarla totalmente antes de almacenarla porque dejar la batería sin que esté completamente agotada afectará su rendimiento.



## USO DE LA BATERIA

Enganche el extremo a la cámara de video (A) y presione la batería hasta que se trabe en el lugar (B).

- Si la batería es colocada en la posición equivocada puede ocurrir un mal funcionamiento.

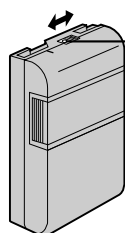
**Para la extracción de la batería . . .**

..... deslice **BATTERY RELEASE** y extraiga la batería.

Batería	Tiempo de grabación aproximado
BN-V11U	1 h 45 min
BN-V12U (opcional)	1 h 45 min
BN-V20U (opcional)	2 h 50 min
BN-V856U (opcional)	11 h 10 min

### ATENCIÓN:

Antes de desmontar la fuente de alimentación, asegúrese que la alimentación de la cámara de video esté desconectada. El no hacerlo puede producir un error de funcionamiento en la cámara de video.



Indicador de carga\*

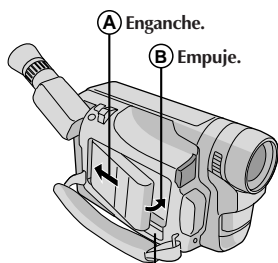
\* Se incorpora un indicador de carga sobre la batería para ayudarle a recordar si ha sido cargada o no. Los dos colores indicadores (rojo y negro), le permiten seleccionar la carga y la descarga.

### INFORMACION:

El VU-V856KIT es un juego compuesto de la batería BN-V856U y del cargador/adaptador de CA AA-V80U. Lea los manuales de instrucción del VU-V856KITU antes de utilizarlo. Es imposible cargar la batería BN-V856U utilizando el cargador/adaptador de CA suministrado. Use el cargador/adaptador de CA AA-V80U opcional.

Si la unidad comienza a funcionar mal, deje de usarla inmediatamente y consulte a su concesionario local de JVC.

## ALIMENTACION



BATTERY RELEASE

### Utilización de la batería

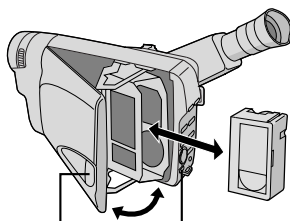
Enganche el lado extremo de la batería en la cámara de video (A) y empuje la batería hasta que se bloquee en el lugar (B).

(Procedimiento para carga, ☞ p. 8)

### Para extraer la batería

Deslice **BATTERY RELEASE** y extraiga la batería.

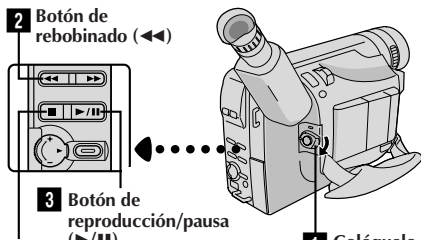
## INSERCIÓN DEL CASSETTE DE VIDEO



Botón PUSH      Conmutador EJECT

- 1 Deslice **EJECT** para abrir el portacassette.
- 2 Inserte cassette de video.
- 3 Presione **PUSH** para cerrar el portacassette. (Por más detalles, ☞ p. 10)

## REPRODUCCION



Botón de parada (■)

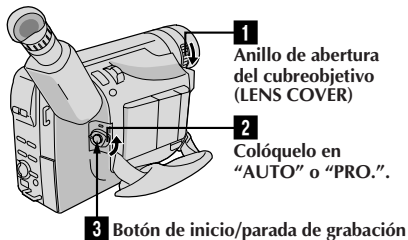
- 1 Ajuste el conmutador de alimentación en "PLAY".
- 2 Presione <<.
  - La cinta se detiene automáticamente al comienzo de la misma.
- 3 Presione >||.
  - Comienza la reproducción y la imagen aparece.

• Presione ■ para detener la grabación.

(Por más detalles, ☞ p. 31.)

**O simplemente reproduzca la cinta en un VCR de VHS utilizando el adaptador de cassette (VHS Playpak). ☞ p. 33**

## FILMACION



- 1 Gire el anillo **LENS COVER** de abertura/cierre para abrir el cubreobjetivo.
- 2 Ajuste el conmutador de alimentación en "AUTO" o "PRO.".
  - La lámpara de alimentación se encenderá y aparecerá una imagen.
- 3 Presione el botón inicio/parada de grabación.
  - Comenzará la grabación.

• Para detener temporalmente la grabación, presione nuevamente el botón de inicio/parada de grabación.

(Por más detalles, ☞ p. 16, 17)

**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 JVC AMERICAS CORP.**
**FACTORY SERVICE CENTER LOCATIONS**

10 New Maple Avenue  
Pine Brook, NJ 07058-9641  
(973) 396-1000

1500 Lakes Parkway  
Lawrenceville, GA 30243-5857  
(770) 339-2522

705 Enterprise Street  
Aurora, IL 60504-8135  
(630) 851-7855

5665 Corporate Avenue  
Cypress, CA 90630-4727  
(714) 229-8011

10700 Hammerly Blvd., Suite 110  
Houston, TX 77043-2310  
(713) 935-9331

2969 Mapunapuna Place, Suite 105  
Honolulu, HI 96819-2000  
(808) 833-5828

13 Cummings Park  
Woburn, MA 01801  
(781) 376-9100

8192 West State Road 84  
Davie, FL 33324-4611  
(954) 472-1960

890 Dubuque Avenue  
South San Francisco, CA 94080-1804  
(650) 871-2666

*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 JVC AMERICAS CORP.**

10 New Maple Avenue  
Pine Brook, NJ 07058-9641

**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.

## 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 THE 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;
6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7. Accessories;
8. 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                      1700 Valley Road  
DIVISION OF JVC AMERICAS CORP.        Wayne, N.J. 07470

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:** \_\_\_\_\_

