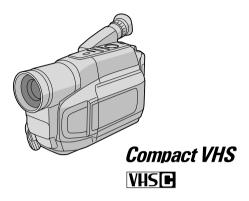
COMPACT VHS CAMCORDER



GR-AXM246





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Dear Customer,

Thank you for purchasing the JVC Compact VHS camcorder. Before use, please read

"PRECAUTIONS" (F pg. 3, 4) to ensure safe use of this product.

AUTOMATIC DEMONSTRATION

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

- Available when the Power Switch (1) is set to "M" or "M" while pressing down the Lock Button (1) located on the switch.
- Performing any operation during the demonstration stops the demonstration temporarily. If no operation is performed for more than 1 minute after that, the demonstration will resume.
- "DEMO MODE" remains "ON" even if the camcorder power is turned off.
- •To cancel Automatic Demonstration, set the Power Switch ① to "M" and press the MENU Wheel ① in 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 MENU Wheel ① to select "OFF" and press it.

NOTES:

- When a tape whose Erase Protection tab is in the position that allows recording is loaded in the camcorder, demonstration is not available.
- If you do not detach the Lens Cap, you cannot see the actual changes of the Automatic Demonstration activated on the LCD monitor or viewfinder.

PROVIDED ACCESSORIES





• AC Adapter AP-V13U or AP-V11U



 Cassette Adapter C-P7U



Battery Pack
 BN-V11U



Shoulder Strap



•Lens Cap



•AA (R6) Battery (for Cassette Adapter)

NOTE:

In order to maintain optimum performance of the camcorder, provided cables may be equipped with one or more core filter. If a cable has only one core filter, the end that is closest to the filter should be connected to the camcorder.

SAFFTY PRECAUTIONS



CAUTION RISK OF ELECTRIC SHOCK

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.



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



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

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

This product has a fluorescent lamp that contains a small amount of mercury. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance:

http://www.eiae.org

CAUTIONS

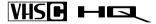
- This camcorder is designed to be used with NTSC-type color television signals. It cannot be used for playback with a television of a different standard. However, live recording and LCD monitor/viewfinder playback are possible anywhere.
- Use the JVC BN-V11U/V12U/V20U/V400U battery packs and, to recharge them or to supply power to the camcorder from an AC outlet, use the provided multi-voltage AC Adapter. (An appropriate conversion adapter may be necessary to accommodate different designs of AC outlets in different countries.)

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 Adapter are on its upper and lower sides.

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.



Cassettes marked VHSIP can be used with this camcorder.

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 SAFETY INSTRUCTIONS

- (1) Read these instructions.
- (2) Keep these instructions.
- (3) Heed all warnings.
- (4) Follow all instructions.
- (5) Do not use this apparatus near water.
- (6) Clean only with dry cloth.
- (7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- (8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **(9)** Only use attachments/accessories specified by the manufacturer.

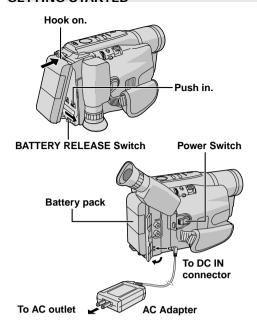
- (10) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- (11) Unplug this apparatus during lightning storms or when unused for long periods of time.
- (12) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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GETTING STARTED



CHARGING THE BATTERY PACK

- Hook the end of the battery pack to the camcorder and push the battery in until it locks in place.
- If the battery pack is attached in the wrong position, a malfunction may occur.
- Set the Power Switch 1 to "OFF" while pressing down the Lock Button 1 located on the switch. Connect the AC Adapter to the DC IN connector
 3.
- Plug the AC Adapter into an AC outlet. The CHARGE lamp blinks to indicate charging has started.
- 4) When the CHARGE lamp stops blinking but stays lit, charging is finished. Unplug the AC Adapter from the AC outlet. Disconnect the AC Adapter from the camcorder.

To Detach The Battery Pack . . .

... slide BATTERY RELEASE **7** and pull out the battery pack.

Battery pack	Charging time
BN-V11U	approx. 1 hr. 40 min.
BN-V12U (optional)	approx. 1 hr. 40 min.
BN-V20U (optional)	approx. 2 hrs. 40 min.
BN-V400U (optional)	approx. 5 hrs. 10 min.

Charging times are for a fully discharged battery pack.

USING THE BATTERY PACK

Perform step 1) of "CHARGING THE BATTERY PACK".

Approximate recording time (unit: min.)

Battery pack	Viewfinder on	LCD monitor on
BN-V11U	85	75
BN-V12U (optional)	85	75
BN-V20U (optional)	140	125
BN-V400U (optional)	330	300

USING AC POWER

Connect the AC Adapter to the camcorder (

**Estep 2) and 3) of "CHARGING THE BATTERY PACK").

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

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.

REFRESH:

Be sure to fully discharge a battery pack before recharging, otherwise the battery performance will be reduced.

- Perform steps 1) through 3) of "CHARGING THE BATTERY PACK".
- Press REFRESH for over 2 seconds. The POWER lamp for blinks to indicate discharging has started.
- When discharging is finished, charging automatically starts and the CHARGE lamp blinks.



-Charge marker helps you remember whether the battery pack has been charged or not. Two colours are provided (red and black)—you choose which one means charged and which means discharged.

STORE BATTERY:

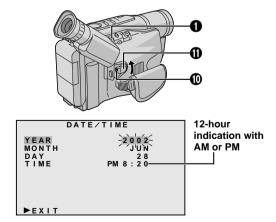
Be sure to fully discharge a battery pack by performing the following step storing it for a long period of time, otherwise the battery performance will be reduced.

- 1) Attach the battery to the camcorder with no cassette inserted.
- 2) Set the Power Switch ① to " A" or " M" while pressing down the Lock Button ① located on the switch.
- During charging or discharging, the camcorder cannot be operated.
- Charging and discharging is not possible if the wrong type of battery is used.
- When charging the battery pack for the first time or after a long storage period, the CHARGE lamp
 may not light. Remove the battery pack from the camcorder, then try charging again.
- If a fully-charged battery's operation time remains extremely short, the battery is worn out. Please purchase a new one.
- Perform charging where the temperature is between 10°C and 35°C (50°F and 95°F). 20°C 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 time varies according to the ambient temperature and the status of the battery pack.
- Since the AC Adapter processes electricity internally, it becomes warm during use. Be sure to use it only in well-ventilated areas.
- The following operation stops charging or discharging:
- Set the Power Switch 10 to "PLAY", " " or " M".
- Disconnect the AC Adapter from the camcorder.
- Unplug the AC Adapter's power cord from the AC outlet.
- Detach the battery from the camcorder.
- Using the optional AA-V15 AC Power Adapter/ Charger, you can charge the BN-V11U/V12U/ V20U/V400U battery pack without the camcorder. However, it cannot be used as an AC adapter.
- •To avoid interference with reception, do not use the AC Adapter near a radio.
- Recording time is reduced significantly when Zoom or Record-Standby mode is engaged repeatedly or the LCD monitor is used repeatedly.
- Before extended use, it is recommended that you prepare enough battery packs to cover 3 times the planned shooting time.

Date/Time Settings

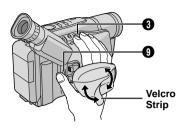
- Set the Power Switch (1) to "M" while pressing down the Lock Button (0) located on the switch.
- 2) Press the MENU Wheel 1 in. The Menu Screen appears.
- 3) Rotate the MENU Wheel ① to select

 "►TO SYSTEM MENU" and press it to display
 SYSTEM MENU. Rotate the MENU Wheel ① to
 select "►NEXT" and press it to display the next
 page.
- 4) Rotate the MENU Wheel ① to select "DATE/ TIME" and press it. The DATE/TIME Menu appears.
- 5) To set "YEAR", "MONTH", "DAY" or "TIME" (hour/minute), rotate the MENU Wheel to select the desired item, and press it. When the setting begins blinking, rotate the MENU Wheel until the correct setting appears and then press it. The setting stops blinking.
- 6) When none of these settings ("YEAR", "MONTH", "DAY", "TIME") blinks, rotate the MENU Wheel to select "►EXIT", and press it. The Menu Screen reappears with the highlight bar on "►RETURN".
- 7) Press the MENU Wheel 1 in to close the Menu Screen.
- •To display the date and time in the camcorder's display and on a connected TV, see DATE/TIME DISP. (F) pg. 21) in SYSTEM MENU.
- The date/time cannot be stored in memory if the built-in clock battery runs out. Consult an authorised JVC dealer for replacement, or set the date/ time as necessary before you start shooting.



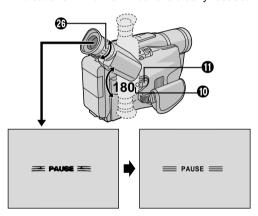
Grip Adjustment

- 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 (1) and Power Zoom Lever (3). Refasten the Velcro strip.



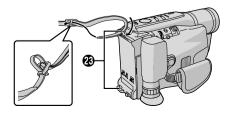
Viewfinder Adjustment

- 1) Set the Power Switch ① to " A" or " M" while pressing down the Lock Button ① located on the switch.
- Turn the Dioptre Adjustment Control until the indications in the viewfinder are clearly focused.



Shoulder Strap Attachment

Thread the strap through the eyelet ②, then fold it back and thread it through the buckle. Repeat the procedure to attach the other end of the strap to the other eyelet ③, making sure the strap is not twisted. Adjust the length.



Tripod Mounting

Align the screw and camera direction stud on the tripod with the tripod mounting socket ②. Then tighten the screw.

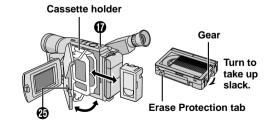
CAUTION

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

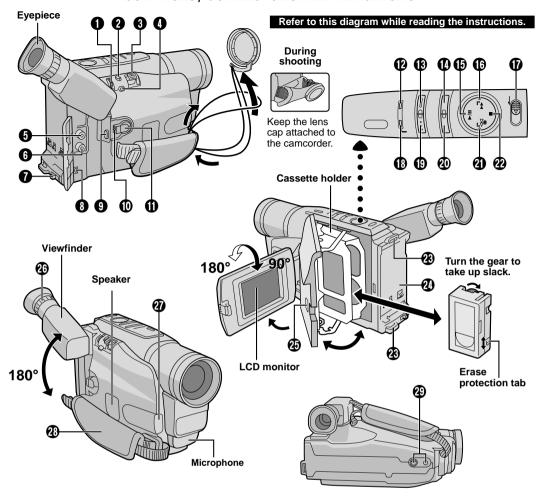


Loading/Unloading A Cassette

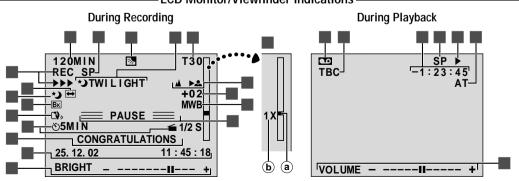
- Open the LCD monitor fully and keep it aligned vertically with the camera (do not tilt it at an angle). Slide EJECT until the cassette holder opens. Do not use force to open.
- 2) Insert or remove a cassette. When inserting, make sure the label is facing outward. appears when a cassette is loaded.
- Press the Close button to close the cassette holder until it locks into place. Close the LCD monitor.
- Closing the LCD monitor while the cassette holder is still open may cause damage to the LCD monitor.
- 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 or detached from the power source.



CONTROLS, CONNECTORS AND INDICATORS







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Speaker Volume Control [VOL.] □ pg. 11 TRACKING Wheel [-, +] □ pg. 14 S-Second Recording Button [5 SEC. REC] □ pg. 12 Power Zoom Lever [TW] □ pg. 12 Time Base Corrector Button [M FOCUS] □ pg. 12 Time Base Corrector Button [M FOCUS] □ pg. 12 Time Base Corrector Button [M FOCUS] □ pg. 14 Audio Output Connector [A] □ pg. 15 Audio Output Connector [V] □ pg. 15 Battery Release Switch [BATTERY RELEASE] □ pg. 16 Power Switch [PLAY, OFF, 12, 16] □ pg. 11 Condition [Power Switch [PLAY, OFF, 13, 16] □ pg. 11 Power Switch [PLAY, OFF, 14, 16] □ pg. 11 Power Switch [PLAY, OFF, 15, 16] □ pg. 14 Programme AE Indicator □ □ pg. 13 Zoom Level Indicator □ □ pg. 13 Zoom Level Indicator □ □ pg. 13 Ecording Indicator □ □ pg. 14 Programme AE Indicator □ □ pg. 13 Zoom Level Indicator □ □ pg. 13 Ecording Indicator □ □ pg. 14 Programme AE Indicator □ □ pg. 13 Ecording Indicator □ □ pg. 14 Programme AE Indicator □ □ pg. 14 Programme AE Indicator □ □ pg. 14 Ecord Mylep-Standby Indicator □ □ pg. 14 Programme AE Indica		Tape Remaining Time 🖙 pg. 21
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 ② • Fade/Wipe Button [FADE/WIPE]		Cassette Indicator 🖙 pg. 8
• Counter Reset/Memory Button [COUNTER R/M]		TBC Indicator 🖙 pg. 14
[COUNTER R/M]		Tape Counter pg. 14
① • Retake Rewind Button [RETAKE R]		Recording Mode Indicator (SP/EP) 🖙 pg. 20
• Quick Review Button [Tape Running Indicator
• Rewind Button [R]		► : Playback
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BACK LIGHT]	② • Stop Button [STOP] pg. 11	
Shoulder Strap Eyelets		_
Battery Pack Mount		
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Dioptre Adjustment Control		• VOLUME: Speaker volume indicator □ pg. 11
② Camera Sensor Be careful not to cover this area; a sensor necessary for shooting is built-in here.	· -	
Be careful not to cover this area; a sensor necessary for shooting is built-in here.	Dioptre Adjustment Control 🗊 pg. 8	
· · · · · · · · · · · · · · · · · · ·	Be careful not to cover this area; a sensor	
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3 Tripod Mounting Socket 🖙 pg. 8

RECORDING

Set REC MODE, TAPE LENGTH and DATE/TIME in SYSTEM MENU.

(© pg. 18 – 22, "MENU SETTINGS")

1 Remove the lens cap. Set the Power Switch **1** to **"A"** or **"M"** while pressing down the Lock Button **1** located on the switch.

Shooting while using the viewfinder: Make sure the LCD monitor is closed and locked.

Shooting while using the LCD monitor: Make sure the LCD monitor is fully open.

The camcorder enters the Record-Standby mode and "PAUSE" is displayed.

- The viewfinder and LCD monitor cannot be used simultaneously on this camcorder. Therefore, when opening the LCD monitor and tilting it upward to 180 degrees, you cannot view any image in the viewfinder, however you can shoot yourself while viewing your own image in the LCD monitor.
- 2 Press the Recording Start/Stop Button **9**. REC appears while recording is in progress.
- To stop recording, press the Recording Start/Stop Button ①. The camcorder re-enters the Record-Standby mode.

To Adjust The Brightness Of The LCD Monitor:
When the Power Switch (1) is set to "M", adjust
"LCD BRIGHT" in SYSTEM MENU (F) pg. 18, 22).
When the Power Switch (1) is set to "A" or
"OFF", this adjustment cannot be performed.

PI AYBACK

1 Load a tape (pg. 8, "Loading/Unloading A Cassette").

2 Set the Power Switch ① to "PLAY" while pressing down the Lock Button ① located on the switch. To start playback, press ▶/II ⑤. To stop playback temporarily (Still Playback), press ▶/II ⑥. To stop playback, press ■ ②. Press ◄◄ ② to rewind, or ▶► ⑥ to fast-forward the tape. High-speed picture search (Shuttle Search) is possible by pressing ◄◄ ② or ▶► ⑥ down during playback (holding ◄◄ ② or ▶► ⑥ down during playback continues search until released). To resume normal playback, press ▶/II ⑥.

For VIDEO RECORDING/VIDEO PLAYBACK

- The camcorder shuts off automatically after about 5 minutes in the Record-Standby or Stop mode.
 To turn on again, set the Power Switch 10 to "OFF", then to "A", "M" or "PLAY".
- •When the Power Switch (1) is set to "A", "M" or "PLAY" and the LCD monitor is opened at an angle of 60 degrees or more, the LCD monitor switches on and the viewfinder switches off automatically to save power.
- The playback picture can be viewed in the viewfinder (with the LCD monitor shut), on the LCD monitor or on a connected TV (pg. 15, "Connections To A TV/VCR").
- •To remove the indications, 🗊 pg. 20, 21, DIS-PLAY or OSD OUTPUT in SYSTEM MENU.
- To control the speaker volume, rotate the MENU Wheel ① towards "+" to turn up, or towards "-" to turn down. While shooting, sound is not heard from the speaker.

BASIC FFATURES

5Sec. Rec (5-sec. Recording)

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

- 1) Make sure the recording mode is set to "SP".
- 2) During Record-Standby, press 5SEC. REC 2.

 5S appears and 5Sec. Rec is reserved.
 - 2 55 appears and 55ec. Rec is reserved.
- Press the Recording Start/Stop Button 9.
 Recording starts, and after 5-second recording is finished, the camcorder re-enters the Record—Standby mode automatically.
- 4) To cancel the 5Sec. Rec. function, press 5SEC. REC ② again so that ☐ 5S ☐ disappears.
- Fade/Wipe (pg. 23) cannot be activated by pressing 5SEC. REC 2.

Backlight Compensation

To quickly increase the brightness of the subject relative to the background.

- 1) Press BACK LIGHT @ during recording. " ..." is displayed and the subject is brightened.
- 2) To cancel Backlight Compensation, press BACK LIGHT ② again. "☑" disappears and the brightness returns to the previous level.
- Backlight Compensation functions in both recording modes ("▲" or "M").
- Using BACK LIGHT @ may make the subject too bright, resulting in a washed out or white image.

Auto/Manual Focus

If correct focus cannot be obtained with Auto Focus, use Manual Focus.

- 1) Set the Power Switch (1) to "M" while pressing down the Lock Button (1) located on the switch.
- 2) Press M FOCUS 4. "▲▲" appears.
- 3) To focus on a distant subject, rotate the MENU Wheel ① upward. "◄" appears and blinks. To focus on a close subject, rotate the MENU Wheel ① downward. "▶" appears and blinks.
- To cancel the Manual Focus, press M FOCUS
 " ** * * * * * disappears and the Auto Focus is applied.
- When the focus level cannot be adjusted any farther or closer, "▲" or "♣" will blink.

Zooming

To produce the zoom in/out effect. Digital circuitry extends the maximum magnification offered by optical zoom. This system is called Digital Zoom.

- Slide the Power Zoom Lever 3 towards "T" to zoom in, or "W" to zoom out.
- The further you slide the Power Zoom Lever 3, the quicker the zoom action.
- Focusing may become unstable during Zooming. In this case, set the zoom while in Record— Standby, lock the focus by using the manual focus (F pg. 12, "Auto/Manual Focus"), then zoom in or out in Record mode.
- The zoom level indicator @ moves during zoom. Once the zoom level indiator @ reaches the top, 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" (Pp. 20) to "OFF" in SYSTEM MENU.

Quick Review

To check the end of the last recording.

- Make sure the camcorder is in the Record– Standby mode.
- 2) Press 44 ② and release quickly.

 Tape is rewound for approx. 1 second and played back automatically, then pauses in Record—Standby mode for the next shot.
- Distortion may occur at the start of playback. This is normal.

Retake

To re-record certain segments.

- Make sure the camcorder is in the Record– Standby mode.
- 2) Press and hold either RETAKE (or (1) to reach the start point for new recording. Pressing ▶▶
 (1) forwards the tape and pressing ◄◄ (1) reverses it.
- 3) Press the Recording Start/Stop Button 9 to start recording.
- Noise bars appear and pictures may become monochrome or darken during Retake. This is normal.

Tracking

Eliminates noise bars that appear on-screen during playback. To activate Manual Tracking:

- 1) Press the TRACKING Wheel **1** for approx. 2 seconds. "MT" **2** appears.
- 2) Rotate the TRACKING Wheel ① so that the noise bars disappear.
- When noise bars appear during playback, the camcorder enters the Auto Tracking mode and "AT" appears.
- 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.

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

- TBC does not work during Still Playback and Shuttle Search (pg. 11).
- 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 (pp. 11).
- If the playback picture is distorted when TBC is set to on, turn off TBC.

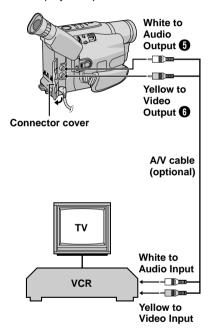
Counter Memory

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.
- After recording or playback, press ②, then
 ✓ ③. The tape automatically stops at or close to 0:00:00.
- 4) Press ►/II (b) to start playback.
- The counter memory functions in the Fast-Forward and Rewind modes.
- To disable the counter memory function, press COUNTER R/M ② for less than 1 second so that "M" disappears.

Connections To A TV/VCR

- 1) Make sure all units are turned off.
- 2) Connect the camcorder to a TV or VCR using the optional video and audio cables. If using both TV and VCR, connect the VCR output to the TV input.
- 3) Turn on all units. Set the VCR to its AUX input mode, and set the TV to its VIDEO mode.
- Use the AC Adapter as the power supply.
- Be sure to 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.



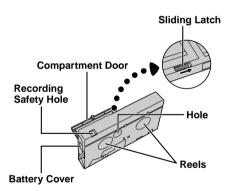
Tape Dubbing

- 1) Connect the camcorder and the VCR
 (Connections To A TV/VCR"). Set the Power Switch (1) to "PLAY" while pressing down the Lock Button (1) located on the switch, turn on the VCR's power, and insert the appropriate cassettes in the camcorder and the VCR. Engage the VCR's AUX and Record-Pause modes.
- 2) Press ►/II (to find a spot just before the editin point. Once it is reached, press ►/II (to again.
- 3) Press ►/II (b) and engage the VCR's Record
- 4) Engage the VCR's Record-Pause mode and press ►/II ⓑ.
- Repeat steps 2) through 4) for additional editing, then stop the VCR and camcorder when finished.

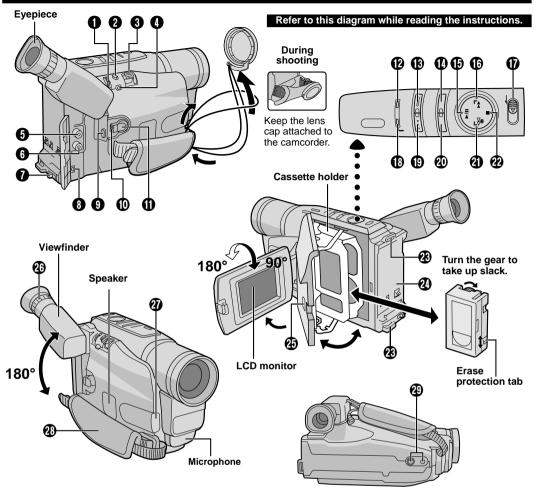
Using The Cassette Adapter

Use this to play back an VHS-C video cassette recorded with this camcorder on a VHS VCR.

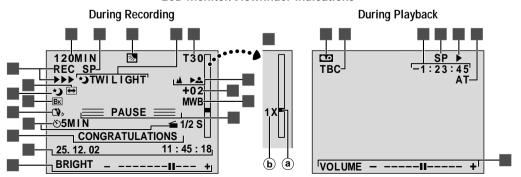
- Slide the battery cover up to remove it, install one "AA (R6)" size battery, then reattach the cover.
- Slide the latch to open the compartment door, then insert the cassette and close the compartment door.
- Load the cassette adapter into the VCR and play the tape back.
- 4) Slide the latch and the 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, and push up and remove the cassette.
- During tape loading and unloading, do not touch the reels for safety and tape protection.
- 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.



INSTRUCTIONS





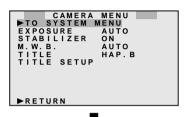


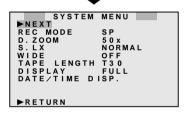
g pg. 25 for Warning Indications

MENU SETTINGS

- **1** Set the Power Switch **1** to "M" while pressing down the Lock Button **1** located on the switch.
- **2** Press the MENU Wheel **1** in. The Menu Screen appears. Rotate the MENU Wheel **1** to select the desired function.
- To go from CAMERA MENU to SYSTEM MENU, rotate the MENU Wheel ① to select "▶ TO SYSTEM MENU" and press it. SYSTEM MENU is composed of 2 pages. To go to the next page, rotate the MENU Wheel ① to select "▶ NEXT" and press it.
- To return to CAMERA MENU from page 2 of SYSTEM MENU, rotate the MENU Wheel

 to select "►TO CAMERA MENU" and press it.





- **3** Press the MENU Wheel **1** in to display the Setting Menu and rotate it to select the desired setting.
- **4** Press the MENU Wheel **1** in. The Menu Screen reappears with the highlight bar on "▶RETURN". Press the MENU Wheel **1** in. The normal screen reappears.

CAMERA MENU

EXPOSURE

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) Rotate the MENU Wheel 1 to select "MANUAL", then press it,
- To brighten the image, rotate the MENU Wheel downward.
 - To darken the image, rotate the MENU Wheel upward.

The exposure control level increases / decreases (maximum ±06).

STABILIZER

The Picture Stabilizer compensates for unstable images caused by camera-shake, particularly at high magnification.

- **ON**: The Picture Stabilizer is activated.
 - 🕩 appears.
- OFF: The Picture Stabilizer is disactivated.
 - disappears.
- Accurate stabilization may not be possible in certain conditions including excessive hand shake.
- 🕦 appears blinking if the Stabilizer cannot be used.

M.W.B.

• FINE

If the white balance is correct, all other colours will be accurately reproduced.

AUTO: White balance is adjusted

automatically.

: 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. 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. If it is difficult to focus on the white paper, adjust focus manually (pg. 12, "Auto/Manual Focus"). Press the MENU Wheel in until "MWB" begins blinking. When the setting is completed, "MWB" stops blinking.

 Once you adjust white balance manually, the setting is retained even if the power is turned off or the battery removed.

 White balance cannot be used when the "SEPIA" or "MONOTONE" mode (pg. 24, "Digital Effects") is activated.

TITLE

Allows you to superimpose one of eight preset titles.

• shows the selected title which remains until

TITLE SETUP

Adjust the settings for TITLE.

SIZE: When "LARGE" is selected, the title

is twice enlarged vertically more than selected "NORMAL". Even if "LARGE" is selected.

"NORMAL" is automatically changed when you select "WIDE" mode (Pp. 20, "SYSTEM

MENU").

SCROLL: When "ON" is selected, the title is

scrolled from right to left.

LANGUAGE: Select the language (ENGLISH,

FRENCH, SPANISH, PORTUGUESE) for TITLE.

To set "SIZE", "SCROLL" or "LANGUAGE", rotate the MENU Wheel 1 to select the desired item, and press it. When the setting begins blinking, rotate the MENU Wheel 1 until the correct setting appears and then press it. The setting stops blinking.

SYSTEM MENU

This Menu Screen cannot be accessed while recording.

REC MODE

Allows you to set the recording mode. "EP" (Extended Play) is more economical, providing three times the recording time.

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

D. ZOOM

Zooming is possible from 16X (the optical zoom limit), to a maximum of 50X or 600X digital magnification.

When set to "OFF" only optical zoom (maximum 16x magnification) can function.

S.LX

MAX: 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.

NORMAL: 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.

OFF: Allows you to shoot dark scenes with no picture brightness adjustment.

WIDE

When set to "ON" black bars will be recorded at the top and bottom of the screen to produce a cinemalike "wide-screen" effect.

While the "WIDE" mode is engaged, "LARGE" in the "TITLE SETUP (SIZE)" (IF pg. 19, "CAMERA MENU") cannot be selected.

TAPE LENGTH

Allows you to set the tape length depending on the tape used: T20=20 minutes, T30=30 minutes, T35=35 minutes, T40=40 minutes.

• Tape remaining time is correct only if the correct tape length has been selected.

DISPLAY

FULL: Makes all of the indications appear on the LCD monitor/viewfinder during playback or recording.

SIMPLE: Makes the following indications disappear from the LCD monitor/viewfinder during recording or playback: , tape remaining time, , tape length () , 9, 17).

DATE/TIME DISP.

Makes the date/time appear in the camcorder or on a connected monitor (set DATE/TIME in SYSTEM MENU first 🖙 pg. 7).

- The selected display will be recorded. If you do not want to record the display, select OFF before shooting.
- In the AUTO DATE mode, the camcorder records the date for about 5 seconds when recording is initiated after the date is changed, a cassette is loaded, or AUTO DATE is selected. The date is replaced after 5 seconds with "AUTO DATE" but this is not recorded.

OSD OUTPUT

ON: On-screen indications are displayed.

OFF: On-screen indications are turned off except Date/Time, Instant Title and Warning Indication.

REC TIME

You can shoot a series of pictures, each slightly different, of the same object for a brief selected period of time (Animation). REC MODE should be set to "SP".

Select the desired recording time and press the Recording Start/Stop Button **9** after focusing on the subject.

- Fade- or wipe-in/out cannot be performed.
- This function is cancelled when the power is shut off or when the cassette is elected.
- To use this function, it is recommended that SCROLL in TITLE SETUP (pg. 18, 19) be set to "OFF".

INT. TIME

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 (Time-Lapse). REC MODE should be set to "SP".

(Please note that it is necessary to set the REC TIME (Animation) in the SYSTEM MENU before performing the INT. TIME (Time-Lapse) function.)

Select the desired interval time and press the Recording Start/Stop Button **9**.

- Fade- or wipe-in/out cannot be performed.
- This function is cancelled when the power is shut off or when the cassette is ejected.
- •To use this function, it is recommended that SCROLL in TITLE SETUP (pg. 18, 19) be set to "OFF".

TELE MACRO

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.

DEMO MODE

Demonstrates certain functions automatically. Available when the Power Switch (1) is set to "A" or "M" and "DEMO MODE" is set to "ON" (factory-preset). Performing any operation during the demonstration stops the demonstration temporarily. Set to OFF to stop completely.

- When a tape whose erase protection tab is in the position that allows recording is loaded in the camcorder, demonstration is not available.
- If you do not detach the Lens Cap, you cannot see the actual changes of the Automatic Demonstration activated on the LCD monitor or viewfinder.

DATE/TIME

Allows you to set the current date and time. ($\ensuremath{\mathbb{Z}}$ pg. 7)

LCD BRIGHT

To adjust the brightness of the LCD monitor, perform the following steps quickly (within approx. 1 second by each interval):

- 1) Select "LCD BRIGHT" in SYSTEM MENU. The "BRIGHT ON" message appears.
- 2) Press the BRIGHT Wheel 1 in to return to normal screen.
- 3) Rotate the BRIGHT Wheel **1** to display the bright level indicator **1**.
- 4) Rotate the BRIGHT Wheel ① until the appropriate brightness is reached. After the BRIGHT Wheel ① is released, the indicator soon disappears and adjustment is completed.

ADVANCED FEATURES

Fade/Wipe Effects

Fade- or wipe-in works at recording start, and fadeor wipe-out works at recording end.

- 1) Set the Power Switch (1) to "M" while pressing down the Lock Button (1) located on the switch.
- Press FADE/WIPE @ repeatedly until the desired mode appears.
- 3) Press the Recording Start/Stop Button **9** to activate fade-in/out or wipe-in/out.
- Pressing and holding the Recording Start/Stop Button (2) allows you to vary the length for the image during fade in/out or wipe in/out.
- •To cancel a fade or wipe, press FADE/WIPE **@** repeatedly until "OFF" appears.

- **BK FADER:** Fades in/out to a black screen.
- MOSAIC (Fader): Gradually turns/returns the picture into/from a mosaic pattern.
- 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 centre.
- **▼ 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 (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.
- **CORNER (Wipe):** Wipes in on a black screen from the upper right to the lower left corner, revealing the scene, or wipes out from lower left to upper right, leaving a black screen.
- ☐ WINDOW (Wipe): Wipes in on a black screen from the centre of the screen towards the corners, revealing the scene, or wipe out from the corners to the centre, leaving a black screen.

Programme AE With Special Effects

- 1) Set the Power Switch (1) to "M" while pressing down the Lock Button (1) located on the switch.
- Press P.AE repeatedly until the desired mode appears.
- To cancel the effect, press P.AE **1** repeatedly until "OFF" appears.
- Only one mode can be engaged at a time.
- In the "High Speed Shutter" or "Sports" modes, picture colour may be adversely affected if the subject is lit by alternating discharge-type light sources such as flourescent or mercury-vapour lights.
- * 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. In this mode, the Auto Focus (pg. 12) and S.LX (pg. 20) may not work.
- **№2** S1/2000 (1/2000 sec. High Speed Shutter): Captures faster action than Sports mode. The screen becomes slightly dark. Use in well-lit situations.

Digital Effects

- 1) Set the Power Switch (1) to "M" while pressing down the Lock Button (10) located on the switch.
- Press DIGIFECT (1) repeatedly until the desired mode appears.
- •To cancel the effect, press DIGIFECT (19) repeatedly until "OFF" appears.
- SEPIA: Recorded scenes have a brownish tint like old photos. Combine this with WIDE in SYSTEM MENU for a classic look.
- B/W MONOTONE: Like black and white films, your footage is shot in B/W. Combine this with WIDE in SYSTEM MENU for a classic look.
- B. FILTER: Recorded scenes have a bluish tint.
- R. FILTER: Recorded scenes have a reddish tint.
- **SOLARI:** The picture is recorded with an effect similar to a painting.
- ⚠ NEGA POSI: The colours of a picture are reversed.
- **MOSAIC:** Turns recorded scenes into a mosaic pattern.
- **STRETCH:** Doubles the width of the picture horizontally.

TROUBLESHOOTING

Before consulting your JVC dealer, please check the following to see if you can correct the problem yourself.

Vertical white lines appear when shooting a very bright object.

 This sometimes occurs when the contrast between the back-ground and the object is great. It is not a defect of the camcorder

Bright, crystal-shaped spots appear in the LCD monitor and the viewfinder.

 Sunlight is directly entering the lens. This is not a defect of the camcorder.

Coloured bright spots appear all over the LCD monitor or the viewfinder

• The LCD monitor and the viewfinder are made with high-precision technology. However, black spots or bright spots of light (red, green or blue) may appear constantly on the LCD monitor or in the viewfinder. These spots are not recorded on the tape. This is not due to any defect of the unit. (Effective dots: more than 99.99 %.)

Animation or Time-Lapse is not available.

 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 programme
 Fig. 21, REC TIME/INT. TIME in SYSTEM MENU).

The tape is running, but there is no playback picture.

- The TV has not been set to its VIDEO mode or channel.
- If A/V connection is used, the TV's VIDEO/TV Switch has not been set to VIDEO.

Playback picture is blurred or interrupted.

 The video heads are dirty or worn out. Consult your nearest JVC dealer for head cleaning or replacement.

The tape stops during fast-forward or rewind.

• The Counter Memory Function has been activated (F) pg. 14, "Counter Memory").

The date and time displays disappear.

 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.

The tape will not eject.

- The battery pack is running low.
- If the LCD monitor is not open over 60 degrees, the EJECT switch **1** does not function.

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 Adapter, etc.); and then re-connect it and proceed as usual from the beginning.

Warning Indications

(high) - (exhausted): Displays the battery remaining power level. As the battery power comes close to nil, the battery indicator blinks (battery power warning). When the battery power is exhausted, power turns off automatically.

Ed: Blinks when no cassette is loaded, or when the erase protection tab is not in the position that allows recording.

TAPE END: Appears when the tape ends during recording, playback or fast-forward.

LENS CAP: Appears for 5 seconds after power is turned on if the lens cap is attached.

■ CONDENSATION OPERATION PAUSED 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. Remove the tape, turn the unit off (without removing the power supply), wait a few minutes for the warnings to clear, and turn it on again.

The Example 2 Example 3 Example 3 Example 4 Example 4 Example 4 Example 4 Example 5 Example 6 Example 7 E

E01—E06 UNIT IN SAFEGUARD MODE REMOVE AND REATTACH BATTERY: The error indications (E01 — E06) show what type of malfunction has occured. 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.

CAUTIONS

When using the AC Adapter in areas other than the USA

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

USING HOUSEHOLD AC PLUG ADAPTER

In case of connecting the unit's AC Adapter 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.



 If there is dust or dirt on the AC Adapter, wipe it clean before using.

General Battery Precautions

If the cassette adapter is not functioning even if it is being operated correctly, the batteries are exhausted. Replace them with fresh ones.

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

- When replacing batteries, read the cassette adapter (C-P6U/C-P7U) instructions.
- 2. Do not use any different size of batteries from those specified.
- 3. Be sure to install batteries in the correct direction.
- 4. Do not use rechargeable batteries.
- Do not expose the batteries to excessive heat as they can leak or explode.
- 6. Do not dispose of the batteries in a fire.
- Remove the batteries from the unit if it is to be stored for an extended period to avoid battery leakage which can cause malfunctions.

Battery Packs

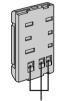
The battery packs are nickel-cadmium or nickel metal-hydride batteries. Before using the supplied battery pack or an optional battery pack, be sure to read the following cautions:

1. To avoid hazard . . .

- do not burn.
- do not short-circuit the terminals.
- $\mbox{\bf do not}$ 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.
- fully charge and then fully discharge the battery every 6 months when storing the battery pack over a long period
- remove from charger or powered unit when not in use, as some machines use current even when switched off.



Terminals

 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)

- 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) 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.
- in dusty places such as a beach.

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 transpor-
- 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 or the LCD monitor. Be sure to hold the main unit with both hands or use the grip.
- swing it excessively when using the shoulder strap.

LCD Monitor

1. To prevent damage to the LCD monitor, DO NOT . . .

- push it strongly or apply any shocks.
- place the camcorder with the LCD monitor on the bottom.

2. To prolong service life . . .

.... avoid rubbing it with coarse cloth.

3. Be aware of the following phenomena for LCD monitor use. These are not malfunctions:

- While using the camcorder, the surface around the LCD monitor and/or the back of the LCD monitor may heat up.
- If you leave power on for a long time, the surface around the LCD monitor becomes hot.

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.

For Your Maintenance

1. After Use

- Set the **Power Switch** to "OFF" to turn off the camcorder.
- ② Open the LCD monitor to an angle of over 60 degrees. Slide EJECT to open the cassette holder, then remove the cassette
- ③ Close and lock the cassette holder by pressing the Close button.
- (4) Close and lock the LCD monitor.
- (5) Slide **BATTERY RELEASE** to remove the battery pack.
- (6) Attach the provided lens cap to the camcorder's lens.

2. Cleaning The Camcorder

- ① Wipe gently the exterior with a soft cloth. Put cloth in diluted mild soap and wring it well to wipe off heavy dirt, then wipe again with a dry cloth.
- ② Open the LCD monitor and wipe it gently with a soft cloth. Be careful not to damage the monitor. Close the LCD monitor.
- ③ Blow the lens with a blower brush, then wipe it gently with lens cleaning paper.
- 4 Turn the eyepiece counterclockwise and pull it out.
- (5) Remove dust from the viewfinder using a blower brush.
- (6) Re-attach the eyepiece and turn it clockwise.
- 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.
- Mould may form if the lens is left dirty.
- When using a cleaner or chemically treated cloth, refer to the cautions that came with it.
- When removing the eyepiece, be sure to hold the viewfinder securely.

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 quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

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

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

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

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

SPECIFICATIONS

Camcorder

General

Format : VHS NTSC standard

Power source : DC 11 V === (Using AC Adapter)

DC 6 V === (Using battery pack)

Power consumption

Viewfinder on : 4.3 W LCD monitor on : 4.8 W Signal system : NTSC-type

Video recording system

: FM recording Luminance

Color : Converted sub-carrier direct

recording

Conforms to VHS standard

Tape speed

Cassette : VHSE cassette

SP

: 33.35 mm/sec. (1-5/16 ips) ΕP : 11.12 mm/sec. (7/16 ips)

Recording time (max.)

SP : 40 minutes ΕP : 120 minutes

(with TC-40 cassette)

Operating

temperature : 0°C to 40°C (32°F to 104°F)

Operating humidity: 35% to 80%

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

Weiaht : Approx. 840 g (1.9 lbs) **Dimensions** : 113 mm x 117 mm x 199 mm $(W \times H \times D)$ (4-1/2" x 4-5/8" x 7-7/8")

(with the LCD monitor closed and

with the viewfinder fully tilted

downward)

Pickup : 1/6" format CCD

Lens : F1.6. f = 2.7 mm to 43.2 mm.

> 16:1 power zoom lens with auto iris and macro control, filter

diameter 40.5 mm

Viewfinder

: Electronic viewfinder with 0.5"

black/white CRT

White balance adjustment LCD monitor

: Auto/Manual adjustment

2.5" diagonally measured, LCD panel/TFT active matrix system

Speaker Monaural

Connectors

Video : 1 V (p-p), 75 Ω unbalanced,

analog output (via Video output

connector)

Audio : 300 mV (rms), 1 k Ω analog output

(via Audio output connector)

AC Adapter

Power requirement

U.S.A. and Canada: AC 120 $V \sim$, 60 Hz

Other countries : AC 110 V to 240 V \sim . 50 Hz/60 Hz

Output : DC 11 V === , 1 A

Optional Accessories

Battery Packs BN-V12U, BN-V20U, BN-V400U

• Compact VHS (VHSI■) Cassettes TC-40/30/20

 Active Carrying Bag CB-V7U A/V (Audio/Video) Cable

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

accessories and their availability.