JVC



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COMPACT VHS CAMCORDER

GR-AX570 GR-AX270



(GR-AX570 shown)





2

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 your new camcorder.

Using This Instruction Manual

- All major sections and subsections are listed in the Table Of Contents (CF cover page).
- 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 (☞ pg. 43 46) and familiarize yourself with button locations, etc. before use.
- read thoroughly the Safety Precautions that follow and cautions (CF pg. 47, 48). They contain extremely important information regarding the safe use of your new camcorder.

SAFETY PRECAUTIONS

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

Warning on lithium battery

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

Replace the battery with Panasonic (Matsushita Electric), Sanyo or Maxell 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.

CAUTIONS:

- To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel.
- When you are not using the AC Power Adapter/Battery charger for a long period of time, it is recommended that you disconnect the power cord from AC outlet.

NOTES:

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

This unit is produced to comply with Standard IEC Publ. 65.

This camcorder is designed to be used with PAL-type colour 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-V12U/BN-V22U/BN-V25U 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.)



- This camcorder is designed exclusively for the VHS-C video cassette. Only cassettes marked VHS-C can be used with this unit.
- HQ VHS is compatible with existing VHS equipment.

ATTENTION USERS OF RECHARGEABLE BATTERIES

DO NOT DISPOSE RECHARGEABLE BATTERIES OR PRODUCTS POWERED BY NON-REMOVABLE RECHARGEABLE BATTERIES, THESE BATTERIES AND PRODUCTS CAN BE RECYCLED.

AT THE END OF NORMAL LIFE,

IN AUSTRALIA, RETURN TO YOUR POINT OF PURCHASE OR MAIL TO:

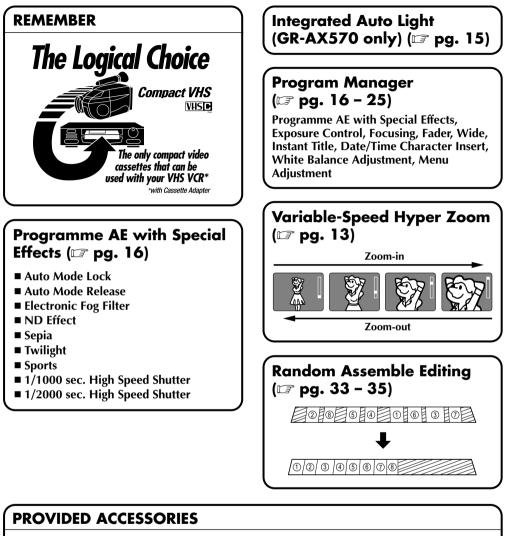
Hagemeyer (Australasia) B.V. 5-7 Garema Circuit Kingsgrove NSW 2208 Australia **Attn :** Service Dept. **Phone :** (02)750 3777

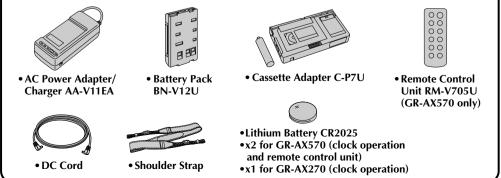
IN NEW ZEALAND, PLEASE RETURN BATTERIES BY MAIL TO:

Hagemeyer (NZ) Limited P.O. Box 100589 Auckland 1000 Phone: (09)415 8758



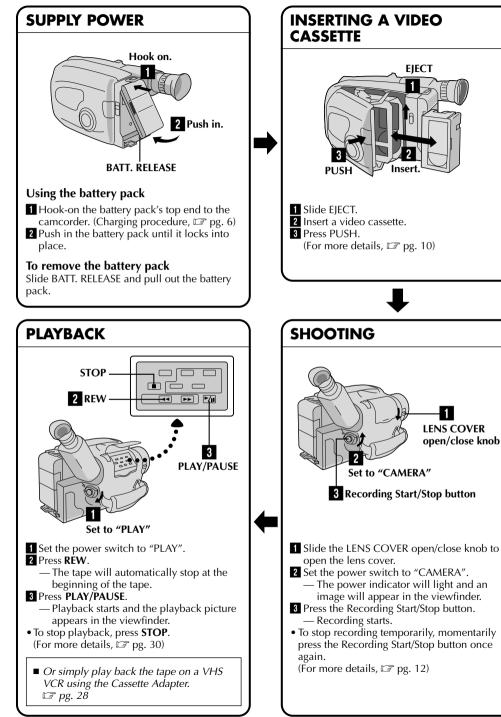
MAJOR FEATURES





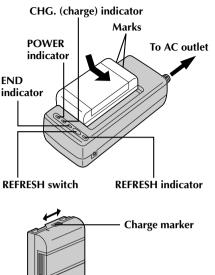
QUICK OPERATION GUIDE





GETTING STARTED





**** CHARGE MARKER**

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



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.

Power

This camcorder's 3-way power supply system lets you choose the most appropriate source of power.

NOTES:

- No function is available without power supply.
- Use only specified power supply.
- Do not use provided power supply units with other equipment.

CHARGING THE BATTERY PACK

SUPPLY POWER

Connect the charger's AC power cord to a wall outlet. The power indicator lights.

ATTACH BATTERY PACK

Align the marks and slide the battery pack in the direction of the arrow until it locks in place. The CHG. indicator lights.

DETACH BATTERY PACK

When charging is completed, the END indicator lights. Slide the battery pack opposite the direction of the arrow.

BATT. PACK	CHARGE	DISCHARGE
BN-V12U	approx. 1 hr. 10 min.	approx. 3 hrs. 30 min.
BN-V22U	approx. 2 hrs. 10 min.	approx. 7 hrs.
BN-V25U	approx. 2 hrs. 40 min.	approx. 10 hrs.

USING THE BATTERY PACK

ATTACH BATTERY PACK

Hook its top end to the camcorder and push the battery pack in until it locks in place.

DETACH BATTERY PACK

Slide BATT. RELEASE and pull out the battery pack.

APPROXIMATE RECORDING TIME

BATT. PACK	GR-AX570	GR-AX270
BN-V12U	1 hr. 10 min. (40 min.)	1 hr. 10 min.
BN-V22U	2 hrs. 20 min. (1hr. 25 min.)	2 hrs. 25 min.
BN-V25U	3 hrs. 5 min. (1hr. 55 min.)	3 hrs. 10 min.

(): when the video light is on. (GR-AX570 only)

**REFRESH

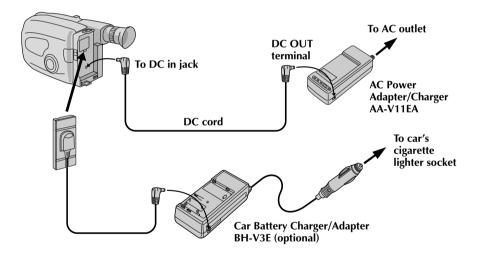
The AC power adapter features a REFRESH function that allows you to fully discharge the battery pack before recharging.

To discharge the battery . . .

..... attach the battery pack to the adapter as shown in the illustration to the left. Then push REFRESH. The REFRESH indicator lights when discharging starts, and goes out when discharging is complete.

NOTES:

- The recording time per charge is affected by such factors as the time spent in Record/Standby mode and the frequency of zooming. It is safer to have spare battery packs.
- Charging times noted on page 8 are for fully discharged battey pack, and discharging times are for fully charged battery pack.
- Charging and discharging times vary according to the ambient temperature and the status of the battery pack.
- Remember to set the charge marker after charging a battery pack or after detaching a discharged one from your camcorder.
- Perform the REFRESH function after no less than 5 chargings.
- High temperatures can damage the battery pack, so use only where good ventilation is available. Don't allow it to discharge in container, such as a bag.
- If you stop recharging or discharging part way through, make sure to remove the battery pack before unplugging the adapter's AC cord.
- Remove the battery pack from the adapter immediately after discharging.
- To avoid interference with reception, do not use the AC Power Adapter/Charger near a radio.
- Make sure you unplug the DC cord before charging or discharging the battery pack.
- A blinking CHG. indicator means that the battery pack has become hot. Wait until it cools down to continue.
- The CHG. indicator may not light properly with a brand new battery pack, or with one that's been stored for an extended period. In this case, remove and reattach the battery pack and recharge it. The CHG. indicator should light during recharging. If not, contact your nearest JVC dealer.



USING A CAR BATTERY

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

NOTES:

- When using the car battery, leave the engine idling.
- The optional Car Battery Charger (BH-V3E) can also be used to charge the battery pack.
- When using the optional Car Battery Charger refer to the respective instruction booklet.

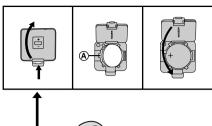
USING AC POWER

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

NOTE:

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

GETTING STARTED (cont.)



Clock (Lithium) Battery Insertion/Removal

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

SWITCH OFF POWER

Switch off the unit's power and remove the power supply unit.

OPEN COVER

Open the clock battery compartment cover while pressing the release tab.

REMOVE BATTERY (when replacing)

Insert a pointed, non-metallic object between the battery and the compartment ((a)) and pull the battery out.

INSERT BATTERY

Ensuring the plus (+) side is up, insert a CR2025 lithium battery and push it in.

CLOSE COVER

Close the compartment cover until it clicks in place.

NOTE:

See "SAFETY PRECAUTIONS" (CF pg. 2) for information on safe handling of lithium batteries.

Viewfinder Adjustment

POSITION VIEWFINDER

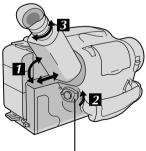
Adjust the viewfinder manually for best viewability (see illustration at left).

SELECT MODE

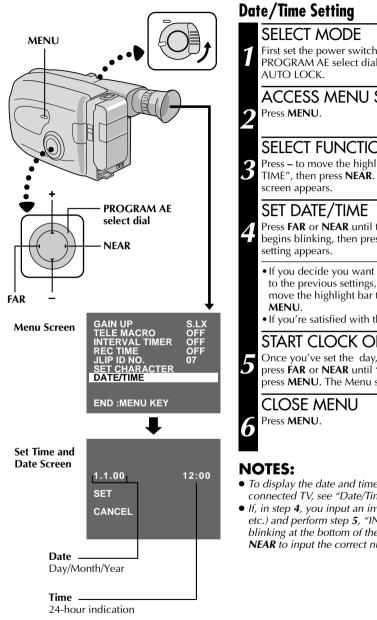
Set the power switch to CAMERA.

ADJUST DIOPTER

Turn the diopter adjustment control until the indications in the viewfinder are clearly focused.



Set POWER to "CAMERA".



First set the power switch to "CAMERA". Turn the PROGRAM AE select dial to any position except

ACCESS MENU SCREEN

SELECT FUNCTION

Press – to move the highlight bar down to "DATE/ TIME", then press NEAR. The Set Date And Time

Press FAR or NEAR until the item you want to set begins blinking, then press + or - to until the correct

- If you decide you want to return the date and time to the previous settings, press FAR or NEAR to move the highlight bar to "CANCEL", then press
- If you're satisfied with the settings, go on to step 5.

START CLOCK OPERATION

Once you've set the day, month, year and time, press FAR or NEAR until "SET" begins to blink, then press MENU. The Menu screen reappears.

- To display the date and time in the viewfinder and on a connected TV, see "Date/Time Insert" (I pg. 22).
- If, in step 4, you input an invalid date (30. 2., 31. 6., etc.) and perform step 5, "INPUT ERROR" appears blinking at the bottom of the screen. Press +, -, FAR or **NEAR** to input the correct number.

10

SP-LP recording mode button T30•45•60 tape length select button ſ Set POWER to "CAMERA". Tape length indicator T30-T30→T45→T60 **Recording mode indicator** SP-LP Turn to take up slack. Gear

Erase Protection

GETTING STARTED (cont

Tape Length Setting

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

SET TAPE LENGTH

Press T30•45•60 until the required indication appears in the viewfinder. T30 = 30 minutes of recording time, T45 = 45 minutes, and T60 = 60minutes (in SP).

NOTE:

The tape remaining time (I pg. 12) displayed in the viewfinder is correct only if the correct tape length has been selected.

Recording Mode Setting

Set depending on your preference.

SET RECORDING MODE



Press SP•LP button. "SP" (Standard Play) provides higher picture and sound quality and is better for dubbing, while "LP" (Long Play) is more economical, recording at 1/2 the speed of SP.

NOTE:

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

Loading/Unloading A Cassette



Slide EJECT until the holder opens. Do not use force to open.

INSERT/REMOVE CASSETTE

Make sure the label is facing outward.

CLOSE CASSETTE HOLDER

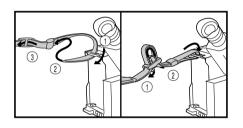
Press PUSH and make sure the holder is closed and locked.

NOTES:

- A 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 can't be opened while the camcorder is in the Record mode.



Recording Start/Stop button



Grip Adjustment



Separate the Velcro strip.

INSERT HAND

Pass your right hand through the loop and grasp the grip.

ADJUST STRAP LENGTH

Adjust so your thumb and fingers can easily operate the Recording Start/Stop button and Power Zoom lever. Refasten the Velcro strip.

Shoulder Strap Attachment

ATTACH STRAP

Following the illustration at left, thread the strap through the top of the eyelet ①, then fold it back and thread it through the keeper ②, and then through the buckle ③. Repeat the procedure to attach the other end of the strap to the other eyelet, making sure the strap isn't twisted.

ADJUST LENGTH

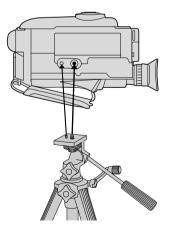
Adjust as shown in the illustration at left ①, then slide both keepers snug against the eyelets to prevent slipping ②.

Tripod Mounting



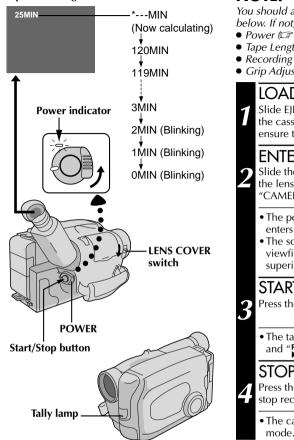
ALIGN AND TIGHTEN

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



RECORDING Basic Recording

Tape remaining time indicator



NOTE:

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

- Power (🖙 pg. 6)
- Tape Length setting (pg. 10)
- Recording Mode Setting (pg. 10)
- Grip Adjustment (I pg. 11)

load a cassette

Slide EJECT to open the cassette holder, then insert the cassette with the label facing out. Press PUSH to ensure the holder is closed and locked.

ENTER RECORD-STANDBY MODE

Slide the LENS COVER open/close switch to open the lens cover, then set the power switch to "CAMERA".

- The power indicator lights and the camcorder enters the Record-Standby Mode.
- The scene you're aimed at appears on the viewfinder screen, with the word "PAUSE" superimposed upon it.

START SHOOTING

Press the **RECORDING START/STOP** button.

 The tally lamp lights while recording is in progress, and "REC" appears in the viewfinder.

STOP RECORDING

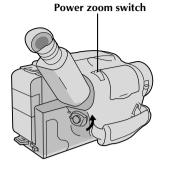
Press the **RECORDING START/STOP** button again to stop recording.

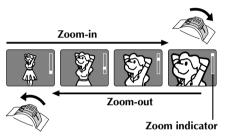
• The camcorder re-enters the Record-Standby mode.

NOTES:

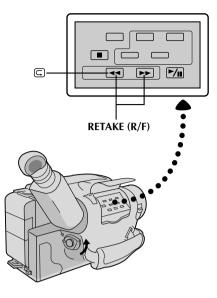
- A cassette holder can't be opened unless a power supply is attached.
- There may be a delay after you slide EJECT until the holder opens. Do not use force.
- The tape's remaining time is displayed in the viewfinder as shown.
- The indicated remaining time is approximate.
- The time required to calculate the remaining tape length, and the accuracy of the calculation, may vary according to the type of tape used.
- The tape remaining time displayed in the viewfinder is correct only if the correct tape length has been selected (pg. 10).
- "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 "POWER 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're recording on a cassette from the middle, use the RETAKE function ($\square pg$, 14) to find the end of the last recording so you don't erase any of it.
- The LENS COVER warning blinks for about 10 seconds when the camcorder is turned on, when the cover is closed.

RECORDING Basic Features



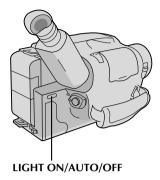


FEATURE: Zooming PURPOSE: Varies the focal length of the lens and produces the zoom in/out effect. **OPERATION:** Zoom In **1)** Pull the power zoom switch down toward "T". Zoom Out 1) Push the switch up toward "W". NOTES: • The further the power zoom switch is pushed, the faster the zoom speed becomes. • Focusing may become unstable during zooming. In this case, set the zoom while in Record-Standby, set manual focus or Focus Lock (pg. 18, 19), then zoom in or out in Record mode.



RECORDING Basic Features (cont.)

FEATURE: PURPOSE:	Quick Review To check the end of the last record-
OPERATION:	 ing. 1) Press "
NOTE:	Distortion may occur at start of playback. This is normal.
FEATURE: PURPOSE: OPERATION:	 Retake To re-record certain segments. 1) Make sure the camcorder is in the Record–Standby mode. 2) Press either RETAKE button to reach the start point for new recording. Pressing "F" fast-forwards the tape and pressing "R" reverses it. 3) Press Recording Start/Stop to start recording.
NOTE:	Noise may appear during Retake.



Video Light (GR-AX570 only)

When natural lighting is too dim, you can brighten the scene by using the built-in video light.

SET VIDEO LIGHT

Set the LIGHT ON/AUTO/OFF as required.

- **ON** : Always keeps the light on as long as the camcorder is turned on.
- AUTO : Automatically turns on the light when the camcorder senses insufficient lighting on the subject.
- **OFF** : Turns off the light.
- The video light can be used with the camcorder's power on.
- It is recommended to set the white balance (☞ pg. 23) to indoor mode (奪) when you use the video light.
- When not using the video light, turn it off to save battery power.

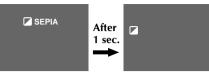
NOTES:

- When the LIGHT ON/AUTO/OFF switch is set to "AUTO":
 - Depending on the lighting conditions, the video light may keep turning on and off. In this case, manually switch the light on or off using the LIGHT ON/ AUTO/OFF switch.
 - While the Sports or High-Speed Shutter mode (IF pg. 16) is engaged, the light is likely to stay on.
 - While the Twilight mode (IF pg. 17) is engaged, the light will not activate.

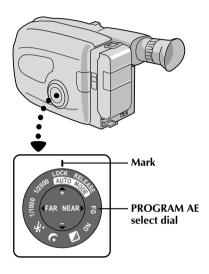
DANGER

- The video light become extremely hot. Do not touch it either while in operation or soon after turning it off, otherwise serious injury may result.
- Do not place the camcorder into the carrying case immediately after using the video light, since it remains extremely hot.
- When operating, keep a distance of about 30 cm. between the video light and people or objects.
- Do not use near flammable or explosive materials.
 It is recommended that you consult your nearest JVC dealer for replacing the video light.

1 second later, the mode is activated.



Viewfinder



DIAL SYMBOL	VIEWFINDER INDICATION	MODE
LOCK	AUTO LOCK	Auto Mode Lock

Auto Mode Lock

Locks the camcorder in Full Auto mode, preventing incorrect operation due to accidental button pressing during shooting.

• In this mode the following controls are disabled; FADE, WIDE, TITLE, DISPLAY, M.W.B (Manual White Balance), Manual Focus, Focus Lock, Exposure Control and MENU

RELEASE	AUTO RELEASE	Auto Mode
RELEASE	AUTO RELEASE	Release

Auto Mode Release

Re-enables the controls that were disabled by Auto Mode Lock.

RECORDING Advanced Features

Programme AE With Special Effects

All you have to do to access any of the variety of shooting effects is to turn the PROGRAM AE select dial.

SELECT MODE

Turn the PROGRAM AE select dial until the symbol of the function you want is aligned with the mark.

- The selected mode's name and its indication are displayed in the viewfinder for approx. 1 second. Then the name disappears, and only the indication remains. The mode is activated.
- When Auto Mode Lock or Auto Mode Release mode is selected, only the mode's name is displayed. Then the name disappears and the mode is activated.

NOTES:

- Only one effect can be engaged at a time.
- The screen becomes slightly reddish when the fader (red pg. 20) is used in the Sepia mode.
- The screen becomes slightly dark in the High Speed Shutter mode. Use in well-lighted situations.
- In the High Speed Shutter or Sports modes, picture colour may be adversely affected if subject is lit by alternating discharge-type light sources such as fluorescent or mercury-vapour lights.

FG	FG:FOG	Electronic Fog Filter
DIAL SYMBOL	VIEWFINDER INDICATION	MODE

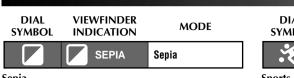
Electronic Fog Filter

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



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.



Sepia

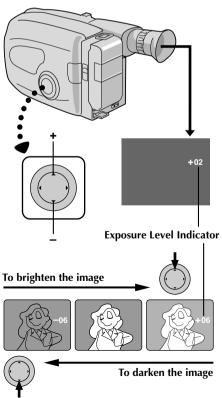
The scene being shot is recorded in sepia-tinted (reddish-brown) monochrome, giving the effect of an older movie. Use together with Wide (1) pg. 20) for the authentic look of a classic Hollywood movie.

TWILIGHT Twiliaht

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 "•" (outdoor mode), but can also be manually changed to another mode (🖙 pg. 23).
- Auto Focus becomes available only in the range of 10 m to infinity. To focus when the subject-tocamera distance is less than 10 m, use manual focusing (CF pg. 18).



DIAL SYMBOL		FINDER CATION	MODE
<i>.</i> *	* s	PORTS	Sports
Sports High shutter action.	speed cl	early captu	ures fast-moving
1/1000	1	S 1/1000	1/1000 sec. High Speed Shutter
1/2000	500	S 1/2000	1/2000 sec.

S 1/2000

High Speed Shutter

High-Speed Shutter (1/1000s., 1/2000s.) Captures faster action than Sports mode.

Exposure Control

1/2000

This feature automatically adjusts the iris for the best available picture quality, but you can override and make the adjustment manually.

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

BRIGHTEN IMAGE

Press + (maximum +06). The Exposure level indicator appears in the viewfinder.

OR . . .

DARKEN IMAGE

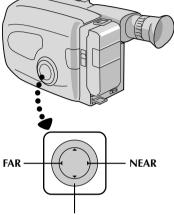
Press – (maximum –06). The Exposure level indicator appears in the viewfinder.

When you want to return to the factory setting . . .

RESTORE INITIAL SETTING

Press + and - simultaneously. The standard setting is immediately restored and the Exposure level indicator disappears.

Focus detection zone



PROGRAM AE select dial

RECORDING Advanced Features (cont.)

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-colour 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 "

Focus Lock

This feature locks the focus in place, which is especially helpful in the following situations:

- When things pass between your subject and the camcorder. Engage the focus lock function to lock your subject in before recording.
- When you want your subject to be focused, and to appear in a corner of the screen. First, center on the subject and focus using auto focus mode. Then engage the focus lock function and move the camcorder until the subject is where you want it.

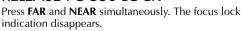
SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

LOCK FOCUS

Press **FAR** or **NEAR**. The focus lock indication "**AA**" appears in the viewfinder.

RELEASE FOCUS LOCK

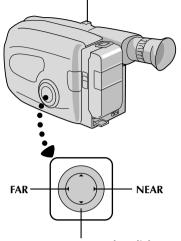


NOTES:

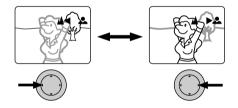
- If the lens is smeared or blurred, accurate focusing is not possible. Keep the lens clean, wiping with a piece of soft cloth if it gets dirty. When condensation occurs, wipe with a soft cloth or wait for it to dry naturally.
- When shooting a subject close to the lens, zoom-out first (IF) pg. 13). If zoomed-in in the auto focus mode, the camcorder could automatically zoom out depending on the distance between the camcorder and the subject.

When Tele Macro (ফ্রে pg. 25) is activated, the Download from Www.Somanuals.com??মণপেরিবের্ধার্থ প্রতিষ্ঠান্যের্পমেও প্রতিক্ষাণিয়ের tically.

Power zoom lever







Manual Focus

NOTE:

You should already have made the necessary viewfinder adjustments (r g. 8). If you haven't, do so before continuing.

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

ADJUST FOCUS

To farther subject . . .

Press and hold **FAR**. The Manual Focus indications "▲◀ ▲" appear and "◀" blinks. Go to step **3**.

To nearer subject . . .

Press and hold **NEAR**. The Manual Focus indications **"▲ ▶**▲" appear and **"▶**" blinks.

Go to step 3.

LOCK FOCUS

Release **FAR** or **NEAR**. The focus indication is replaced by the focus lock indication "**AA**" and the adjusted focus is locked in.

RELEASE MANUAL FOCUS MODE

Press **FAR** and **NEAR** simultaneously. The Manual Focus mode is immediately released and the focus lock indication disappears.

NOTES:

3

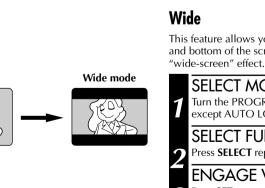
- Be sure to focus the lens in the maximum telephoto position when you use the Manual Focus mode. If you focus in on a certain subject in the wide-angle position, sharply focused images cannot be obtained when zoomed up because the depth-of-field is reduced at longer focal lengths.
- When the focus level cannot be adjusted any farther or closer, "▲" or "▲" will blink.

Function indication ► FADE ◀ Fade-Standby indication FADE SELECT button **PROGRAM AE select dial** SET button

FADE IN



FADE OUT



RECORDING Advanced Features (cont.)

Fader

This feature allows smooth fade-in and fade-out to black blank screen. Fade-in works at recording start, and fade-out works at recording end or when you enter Record-Standby mode.

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

SELECT FUNCTION

Press **SELECT** repeatedly until "▶**FADE**◄" appears.

FNGAGE FADE-STANDBY MODE

Press SET to engage the Fade-Standby mode. The Fade-Standby indication "FADE" is displayed.

START RECORDING

Press Recording Start/Stop to start recording and activate fade-in.

OR . . .

END RECORDING

Press Recording Start/Stop to end recording and engage fade-out.

NOTES:

- Pressing and holding the Recording Start/Stop button allows you to record a black blank screen.
- The screen becomes slightly reddish when the Fader is used with Sepia (17).
- With the Electronic fog filter mode (pg. 16) engaged, the image fades in/out to a white screen.

This feature allows you to record black bars at the top and bottom of the screen to produce a cinema-like

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

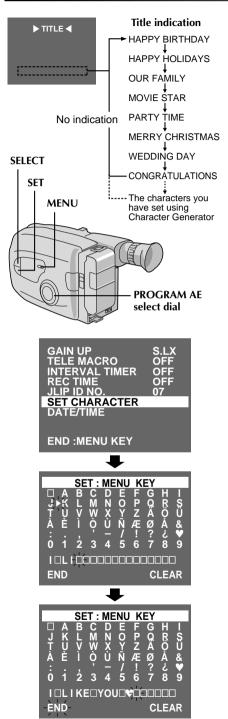
SELECT FUNCTION

Press **SELECT** repeatedly until "►WIDE < " appears.

ENGAGE WIDE MODE Press SET.

RESTORE NORMAL SCREEN

Press SET again while "►WIDE <" appears.



Instant Titles

The camcorder has eight preset titles in memory. You can superimpose one of them above a previously stored title as shown in the illustration to the left.

DISPLAY

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

SELECT FUNCTION

Press **SELECT** repeatedly until "►TITLE < " appears.

SELECT PRESET TITLE

Engage the Record-Standby mode, then press SET to cycle through the preset titles until the desired title is displayed.

NOTES:

- To delete the Instant Title during recording, press **SET**. To recall a title, engage the Record–Standby mode and then press SET to select the desired title.

Character Generator

You can enter an original title of up to 18 characters.

ACCESS MENU SCREEN

Turn the PROGRAM AE select dial to any position except AUTO LOCK, then press MENU.

ACCESS CHARACTER SET MENU

Press + or - to move the highlight bar to "(SET CHARACTER)", then press NEAR. The Character Set menu appears.

INPUT CHARACTERS

- Press +, -, FAR or NEAR to move the pointer to the desired character, then press MENU. The selected characters appear at the bottom of the screen. Repeat as many times as desired (max. 18).
 - To select the location of the next character, press +, -, FAR or **NEAR** to highlight the row of squares at the bottom of the screen, then press FAR or NEAR to make the desired location blink. Press + when you're done, and the pointer returns to the character grid.

END CHARACTER SETTING

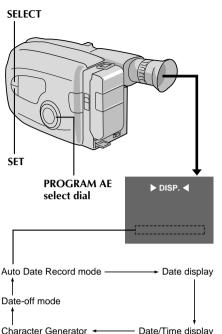
Press +, -, FAR or NEAR to make "END" blink, then press MENU twice to return to the normal screen.

NOTES:

- To erase a character you entered mistakenly, make "CLEAR" blink by pressing +, -, FAR or NEAR, then press MENU. All characters are deleted at once. Or, to erase selected characters only, first move the pointer to the row of squares by pressing +, -, FAR or NEAR to highlight them. Press FAR or NEAR to make the desired character blink, then press +, FAR or NEAR to move the pointer to " [] " in the top left corner. Press MENU.
- To display the characters you have set "Instant Titles" or "Date/Time/Character Insert" (13 pg. 22).

• Characters may be set only in the Record-Standby mode. Download from Www.Somanuals.com. All Manuals Search And Download.

22



Auto Date Record mode AUTO DATE 25.12.97 Auto date record Auto date record mode executed Date display Date/Time display 25.12.97 25.12.97 10:45 Character Generator SET CHAR IN PARIS, FRANCE No Characters Example of stored stored characters

RECORDING Advanced Features (cont.)

Date/Time Character Insert

This feature allows you to display date, time and characters in your viewfinder and on a connected colour monitor, record them manually or automatically, and even make your own titles.

NOTE:

You should already have performed the Date/Time Setting procedure (III) pg. 9). If you haven't, do so before continuing.

DISPLAY

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

SELECT DISPLAY

Press **SELECT** repeatedly until "**DISP.** " appears.

CHOOSE DISPLAY MODE

Press **SET** while in Record–Standby to cycle through the modes as shown in the illustration at left.

NOTES:

- The selected display can be recorded.
- If you don't want to record the display, select Date-off mode before shooting.
- If you want to delete the display during shooting, press **SET**.
- If you want to call back a deleted display, engage the Record–Standby mode and then select the desired display mode using SET.

AUTO DATE RECORD

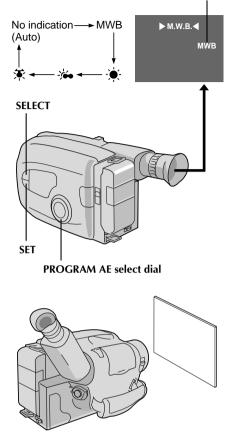
Your camcorder automatically records the day, month and year for about 5 seconds after recording is initiated in the following situations:

- After changing the date.
- After loading a cassette.
- After Auto Date Record mode is selected by pressing **SET**. In this mode, the day, month and year are replaced after 5 seconds with "AUTO DATE".

NOTES:

- Setting **PROGRAM AE** to LOCK always engages this mode, and disables all other modes.
- In the Auto Date Record mode, if the date changes while you're shooting, the date indication is recorded for about 5 seconds from that point. It is not recorded during any other recordings made on that day.

White balance mode indicator



NOTES:

- To switch to automatic white balance adjustment, press **SET** until the indication disappears, or turn the PROGRAM AE select dial to "AUTO LOCK".
- Re-adjust the White Balance when the lighting has changed, when the camcorder has been turned on and off again, or when the PRO-GRAM AE select dial's position has been changed.
- It is helpful to connect your camcorder to a colour monitor when adjusting the white balance ("Basic Connections" IF pg. 29).
- When adjusted by putting coloured paper in front of the subject in step 2 ("ADJUST FOCUS"), this unit makes its colour temperature standard for automatic white balance. So you can enjoy shooting with different colours. For example, when adjusting with red, blue or yellow colours, the image becomes the colour which aproximates to green, orange or purple respectively.

Manual White Balance Adjustment (M.W.B.)

This camcorder's Automatic Colour Temperature system senses the colour temperature of the ambient lighting for automatic white balance adjustment. However, precise colour adjustment is not possible under the following conditions:

- When an object is in various shades of the same colour.
- When a predominantly red or brown object is being shot outdoors.

In these cases, use the camcorder's built-in preset filters for white balance adjustment.

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

SELECT FUNCTION

Press **SELECT** reapeatedly until "►**M.W.B.**◄" appears.

SELECT WHITE BALANCE

Press **SET** (Manual White Balance) until the required indication appears in the viewfinder.

"MWB" With a memorized personal White
Balance setting (see below)
"♥" Outdoors on sunny day
"🌤 " Outdoors on cloudy day
"* 🛣 Light source is halogen or tungsten lamp

MWB sets the colour temperature for the subject's light source so you can shoot with natural colours that are unaffected by surroundings, even when there are multiple subjects with different colour temperatures.

MWB

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

ADJUST FOCUS

Point the camcorder at a white, flat object such as a sheet of white paper, and adjust focus manually (IF pg. 19).

ADJUST WHITE BALANCE



Press **SET** until "MWB" appears, then press and hold **SET** for more than 3 seconds.

• "MWB" blinks in the viewfinder during adjustment, then stops blinking but stays lit when adjustment is complete.

RECORDING Advanced Features (cont.)

MENU NEAR FAR GAIN UP S.LX **FELE MACRO** OFF INTERVAL TIMER OFF REC TIME JLIP ID NO. SET CHARACTER OFE 07 DATE/TIME END :MENU KEY GAIN UP NORM **TELE MACRO** ► ON 1 MIN INTERVAL TIMER REC TIME 1/2S JLIP ID NO. SET CHARACTER 07 DATE/TIME END :MENU KEY =PAUSE=

If GAIN UP or TELE MACRO in the Menu has been changed from the factory settings, this mark appears in the viewfinder.

Using Menu For Detailed Adjustment

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

SELECT MODE

Turn the PROGRAM AE select dial to any position except AUTO LOCK.

ACCESS MENU SCREEN Press MENU.

SELECT FUNCTION

Press + or – to place the highlight bar on the desired function.

MAKE SETTING

The setting procedure depends on the function you select.

If you select GAIN UP, TELE MACRO, INTERVAL TIMER, REC TIME or JLIP ID NO. . . .

.... press **FAR** or **NEAR** to cycle through the choices until the desired setting appears.

If you select SET CHARACTER or DATE/TIME, press NEAR to access the selection menu for each function (SET CHARACTER – IIF pg. 21; DATE/TIME – IIF pg. 9).

CLOSE MENU

Press MENU. The normal screen reappears.

NOTE:

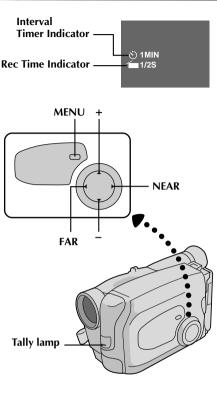
The menu is available only in the Record-Standby mode.

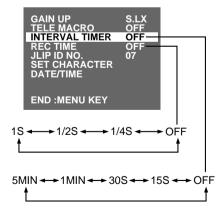
S.LX	To record a subject in a dark lit environment. When it is more convenient to shoot the subject with a brighter image even if the picture becomes slightly coarse. Automatically selected when the PROGRAM AE select dial is set to AUTO LOCK mode. (S.LX: Super LoLux)
► NORM	To record a subject in a dimly 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.
OFF	Usually set to this position.
► ON	 Usually the distance to a subject where the lens is in focus depends on the zoom magnification. Unless there is a distance more than 1m 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. Depending on the zoom position, the lens may go out of focus.
OFF	This feature allows you to set the parameters for Self-Timer
	($\square \overline{P}$ pg. 26) and Time-Lapse recording ($\square \overline{P}$ pg. 27).
OFF	This feature allows you to set the parameters for Animation
1/4 S	and Time-Lapse recording (🖙 pg. 27).
1/2 S	
15	
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 07.	
Allows you to input characters (r pg. 21).	
Allows you t	o input characters (La pg. 21).
	 NORM OFF OFF ON OFF 15 S 30 S 1 MIN 5 MIN OFF 1/4 S 1/2 S 1 S This number as a compute

= Factory setting and when the PROGRAM AE Select Dial is set to AUTO LOCK

NOTE:

During shooting in low light, Auto Focus accuracy may decrease even when Gain Up is used. In this case, use Manual Focus (III), pg. 19).





RECORDING Advanced Features (cont.)

Self-Timer

You can set the delay between pressing **RECORDING START/STOP** and the actual start of recording. If you secure the camcorder, you (or whomever is operating the camcorder) can enter the scene before recording starts.

NOTE:

Make sure the camcorder is in the Record-Standby mode before performing the following steps.

ACCESS MENU SCREEN

Turn the PROGRAM AE select dial to any position except AUTO LOCK, then press **MENU**.

SET INTERVAL TIME

Press – or + to move the highlight bar down to "INTERVAL TIMER", then press FAR or NEAR to cycle through the choices. Stop when the desired time appears. Choose from "15S", "30S", "1MIN", "5MIN", or select to turn the function "OFF".

CLOSE MENU

Press MENU.

3

START DELAYED RECORDING

Press **RECORDING START/STOP**. The tally lamp begins blinking, and the blinking frequency increases about 5 seconds before recording is to start. Once recording begins, the lamp stops blinking but stays lit.

To Release Self-Timer . . .

..... while the tally lamp is blinking, press **RECORDING START/STOP** to stop the blinking, then set "**INTERVAL TIMER**" to "OFF".

Animation

Give stationary scenes or objects an illusion of movement. This function allows you to shoot a series of pictures, each slightly different, of the same object for a brief period of time.

NOTE:

Make sure the camcorder is in the Record-Standby mode and the recording mode is set to "SP" before performing the following steps.

ACCESS MENU SCREEN

Turn the PROGRAM AE select dial to any position except AUTO LOCK, then press **MENU**.

SET RECORDING TIME

Press – or + to move the highlight bar down to "**REC TIME**", then press **FAR** or **NEAR** to cycle through the choices. Stop when the desired time appears. Choose from "1/4S", "1/2S", "1S", or select to turn the function "OFF". Then press **MENU** to close Menu screen.

START RECORDING

Press the Recording Start/Stop button after focusing on the subject. The recording stops automatically after the selected period of time.

ASSEMBLE SERIES OF PICTURES

Repeat step **3** for the desired number of pictures.

RELEASE ANIMATION MODE

Set "REC TIME" in the Menu screen to "OFF".

NOTES:

3

- For best results, make sure the camcorder is secured when shooting in Animation or Time-Lapse mode.
- Fade-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.

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.

NOTE:

Make sure the camcorder is in the Record-Standby mode and the recording mode is set to "SP" before performing the following steps.

ACCESS M	ENU SCREEI	V
----------	------------	---

Turn the PROGRAM AE select dial to any position except AUTO LOCK, then press **MENU**.

SET INTERVAL BETWEEN RECORDINGS

Press – or + to move the highlight bar down to "INTERVAL TIMER", then press FAR or NEAR to cycle through the choices. Stop when the desired time appears. Choose from "15S", "30S", "1MIN", "5MIN", or select to turn the function "OFF".

SET RECORDING TIME

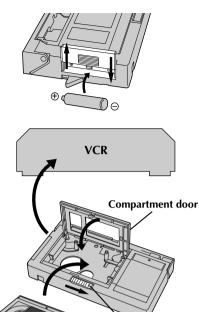
Press – or + to move the highlight bar down to "**REC TIME**", then press **FAR** or **NEAR** to cycle through the choices. Stop when the desired time appears. Choose from "1/4S", "1/2S", "1S", or select to turn the function "OFF". Then press **MENU** to close Menu screen.

START TIME-LAPSE RECORDING

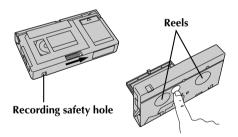
Press the Recording Start/Stop button. Recording and intervals alternate automatically.

RELEASE TIME-LAPSE MODE

To release when the tally lamp is not blinking, set "**REC TIME**" and "**INTERVAL TIMER**" in the Menu screen to "OFF". To release when the tally lamp is blinking, press the Recording Start/Stop button to stop the blinking, then set "**INTERVAL TIMER**" and "**REC TIME**" in the Menu screen to "OFF".







Sliding latch

PLAYBACK Using The Cassette Adapter

Cassette Adapter

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

INSERT BATTERY

Slide the battery cover up to remove it, and install one "R6(AA)" size battery as shown in the illustration at left. Then reattach the cover.

INSERT CASSETTE IN ADAPTER

Slide the latch to open the adapter compartment door, then insert the cassette and close the compartment door.

PLAY BACK ON CONNECTED VCR

Load the cassette adapter into the VCR and play the tape back as you would any other.

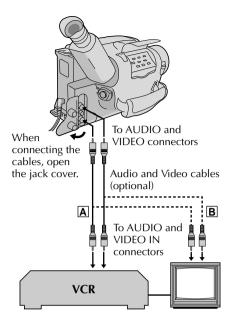
REMOVE CASSETTE FROM ADAPTER

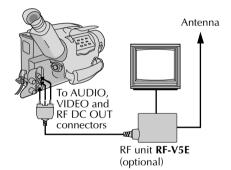
Slide the latch and the compartment door opens automatically. Then insert your finger in the hole on the underside of the adapter as shown in the illustration at left, push up and remove the cassette.

NOTES:

- 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.

PLAYBACK Basic Connections





NOTES:

- It is recommended to use the AC Power Adapter/Charger as the power supply instead of the battery pack.
- To monitor the picture and sound from the camcorder without inserting a tape, set the camcorder's Power switch to "CAMERA", then set your TV to the appropriate input mode.
- 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.

There are three basic types of connections. When making the connections, refer also to your VCR and TV instruction manuals.

Connection To A VCR [A] (Editing, Dubbing and Playback)

NOTE:

Use the optional Audio and Video cables.

CONNECT CAMCORDER TO VCR

As shown in the illustration at left, connect the optional Audio and Video cables between the AUDIO and VIDEO connectors on the camcorder and those on the VCR

SUPPLY POWFR

Turn on the camcorder, the VCR and the TV.

SELECT MODE

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

Connection To A TV With A/V Input **Connectors [B] (Playback ONLY)**

NOTE:

Use the optional Audio and Video cables.

CONNECT CAMCORDER TO TV

As shown in the illustration at left, connect the optional Audio and Video cables between the AUDIO and VIDEO connectors on the camcorder and those on the TV.

SELECT MODE

Set the TV to its VIDEO or AV mode (as specified in its instructions).

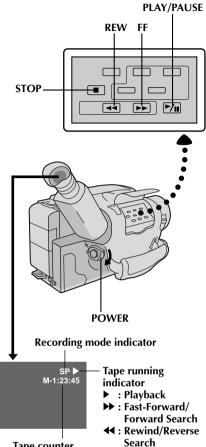
Connection To A TV With NO A/V Input **Connectors (Playback ONLY)**

NOTE:

Use the optional RF-V5E RF unit.

Refer to the RF-V5E instruction manual for connection procedure.

PLAYBACK Basic Playback



II : Still Playback

Tape counter

NOTE:

Make sure you connect your camcorder as directed in "Basic Connections" (pg. 29).

LOAD A CASSETTE

Slide EJECT to open the cassette holder, then insert the cassette with the label facing out. Press PUSH to ensure the holder is closed and locked

SELECT MODE

Set the Power switch to "PLAY". The Power On indicator lights.

PLAYBACK

Press PLAY/PAUSE. The playback picture appears in the viewfinder and the connected TV.

STOP PLAYBACK

Press STOP.

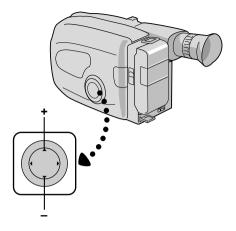
Rewind or Fast-forward the tape

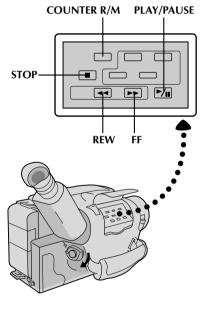
Press **REW** to rewind, or **FF** to fast-forward the tape during Stop mode.

NOTE:

The camcorder shuts off automatically after about 5 minutes in STOP mode or Still Playback mode. To turn on again, set the Power switch to "POWER OFF", then to "PLAY".

PLAYBACK Features

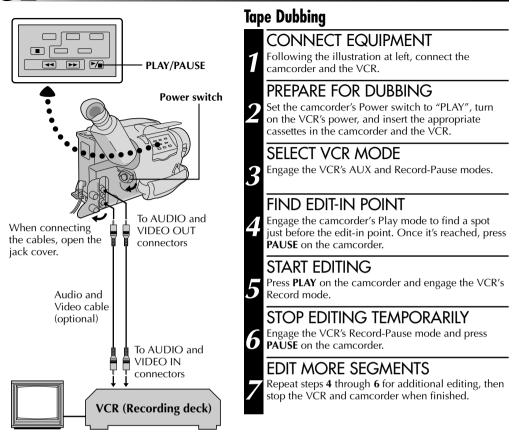




FEATURE: PURPOSE: OPERATION: NOTES:	 Manual Tracking To eliminate noise bars that appear on the screen during playback. 1) Press either +/- button as many times as necessary for best picture. To reset TRACKING to the original preset, press both + and – buttons simultaneously. Manual Tracking may not work with tapes recorded on other VCRs or camcorders.
FEATURE: PURPOSE: OPERATION: NOTE:	 Still Playback To pause during playback. 1) Press PLAY/PAUSE during playback. 2) To resume normal playback, press PLAY/PAUSE again. Noise bars appear and pictures may become monochrome during Still Playback. This is normal.
FEATURE: PURPOSE: OPERATION: NOTE:	 Shuttle Search To allow high-speed search in either direction. Forward Search 1) Press FF during playback. Reverse Search 1) Press REW during playback. Noise bars appear and pictures may become monochrome or darken in Shuttle Search. This is normal.
FEATURE: PURPOSE: OPERATION: NOTES:	 Counter Memory Function To make it easier to locate a specific tape segment. Press COUNTER R/M and hold for more than 2 seconds. The counter resets to "0:00:00". Press COUNTER R/M less than 1 second. "M" appears. After recording or playback, press STOP, then REW. The tape automatically stops at or close to 0:00:00. Press PLAY/PAUSE to start playback. The counter memory functions in the FF and REW modes. To disable Counter Memory Function, press COUNTER R/M so the "M" disappears.

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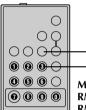
EDITING



パワ

Random Assemble Editing [R.A.Edit]

Create edited videos easily using your camcorder as the source player. You can select up to 8 "cuts" for automatic editing, in any order you like. R.A.Edit is more easily performed when the MBR (Multi-Brand Remote, RM-V704U or RM-V700U) is set to operate with your brand of VCR (see VCR CODE LIST), but can also be performed by operating the VCR manually.





MBR: RM-V704U (optional) or RM-V700U

VCR CODE LIST

VCR BRAND Name	BUTTONS (A) (B)	VCR BRAND NAME	BUTTON (A) (B)	
AKAI		PHILIPS		
BLAUPUNKT	00		00 00	
FERGUSON	90 90 80		00 00 00	
GRUNDIG	00	SANYO	00 00	
HITACHI	0 0 0 0	SELECO, REX	00 00	
JVC A B C		SHARP	00	
MITSUBISHI	9 0 0 0 0 0	SONY	00 00 00	
NEC	80 80	THOMSON,	00	
PANASONIC	000000000000000000000000000000000000000	TELEFUNKEN, SABA, NORDMENDE	ÕÕ	
	TOSHIBA	00 00		

SET REMOTE/VCR CODE

SET REMOTE TO OPERATE VCR

Turn off the power to the VCR and point the remote toward the VCR's infrared sensor. Then, referring to the VCR CODE LIST on the left, press and hold **MBR SET**, and press button (A) and then (B).

• The code is automatically set once you release the **MBR SET** button, and the VCR's power comes on.

OPERATE THE VCR

Make sure the VCR's power is on. Then, while holding **VCR CTL**, press the button on the remote for the desired function. The functions the remote can control are PLAY, STOP, PAUSE, FF, REW and VCR REC STBY (you don't need to press **VCR CTL** for this one).

You're now ready to try Random Assemble Editing.

IMPORTANT

Although the MBR is compatible with JVC VCRs and those of many other makers, it may not work with yours or may offer limited functions.

NOTES:

- If the VCR's power doesn't come on in step 1, try another code from the chart.
- Some brands of VCR don't come on automatically. In this case, turn the power on manually and try step 2.
- If the MBR is not able to control the VCR, use the controls on the VCR.
- The MBR cannot be used to operate GR-AX270.

MAKE CONNECTIONS

CONNECT TO . . .

A JVC VCR EQUIPPED WITH REMOTE PAUSE TERMINAL

Connect the editing cable to the Remote PAUSE terminal.

IVC VCR NOT EQUIPPED WITH REMOTE PAUSE TERMINAL

Connect the editing cable to the R.A.EDIT connector.

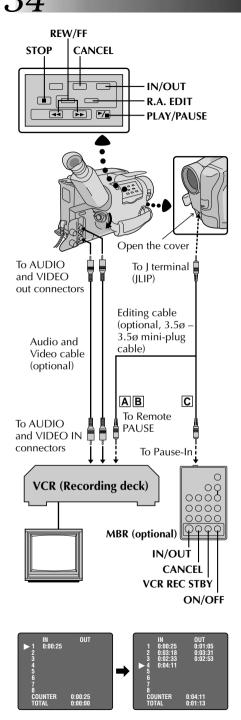
© NON-JVC VCR WITH NEITHER

Connect the editing cable to the MBR's Pause-In jack.

All other connections are as shown in the illustration on page 34.

CONTINUED ON NEXT PAGE

EDITING (cont.)



PREPARE CAMCORDER

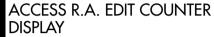
Insert a recorded tape and set the Power switch to "PLAY".

PREPARE VCR

Turn the power on, insert a recordable tape and engage the AUX mode (refer to VCR's instructions).

SELECT SCENES

1



Press **PLAY/PAUSE**, then press **R.A. EDIT** and the counter display appears in the viewfinder and the screen of the connected TV.

REGISTER BEGINNING OF SCENE

Press **REW** or **FF** to locate the beginning of a scene you want, then press **IN/OUT** to register that point. The data appears under IN on the display.

REGISTER END OF SCENE

Press **REW** or **FF** to locate the end of the scene and press **IN/OUT** to register it. The data appears under OUT on the display. The total time of the registered scene(s) is displayed at the bottom of the screen.

REGISTER ADDITIONAL SCENES

Repeat steps **2** and **3** for each additional scene (as many as 8).

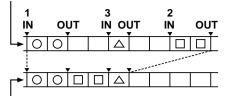
MAKE CORRECTIONS

Press **CANCEL** during steps **2** and **3** to erase the most recently registered point.

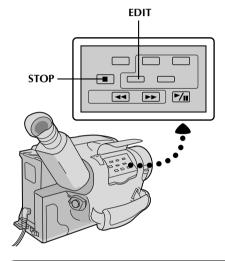
NOTES:

- For GR-AX570 only: The MBR can be used to operate other camcorder functions as well. Point the MBR at the camcorder's remote sensor and press any of the following buttons (function appears in parentheses):
 - ON/OFF (camcorder R.A. EDIT)
 - IN/OUT (camcorder IN/OUT)
 - CANCEL (camcorder CANCEL)
- There must be at least one second between an in-point and its corresponding out-point.
- To ensure correct operation, leave at least 15 seconds open between scenes.
- Blank portions of tape cannot be registered as in-points or out-points.
- If it takes more than 5 minutes to search for an in-point, the VCR's Record-Pause mode is cancelled and editing doesn't take place.
- Pressing **R.A.EDIT** clears all in- and out-points from memory.
- Leave a small margin for error around each in-point to ensure the scene is recorded in its entirety.

ORIGINAL TAPE (camcorder)







AUTOMATIC EDITING TO VCR

ENGAGE VCR'S RECORD-PAUSE MODE

Point the remote control toward the VCR's infrared sensor and press **VCR REC STBY**, or manually engage the VCR's Record-Pause mode.

BEGIN AUTOMATIC EDITING

Press **EDIT** on the camcorder, and the previously selected scenes are copied to the VCR in the specified order.

END AUTOMATIC EDITING

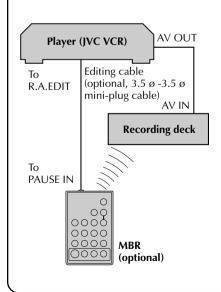
When all selected scenes have been copied, the camcorder and VCR enter the still or pause mode. Press **STOP** on both units.

• When finished editing, be sure to disconnect the editing cable and the audio/video cable.

NOTES:

- If you performed step 1 c on page 33 ("MAKE CONNECTIONS"), keep the remote control pointed at the VCR during editing.
- The on-screen display only appears while the camcorder searches for each scene.
- There may be noise at in- or out-points on the edited tape with certain VCRs.

SUPPLEMENTAL INFORMATION ON THE REMOTE CONTROL



Using the MBR, it is also possible to perform deck-to-deck Random Assemble Editing. The playback deck must be an R.A. Edit-capable JVC VCR. The recording deck can be... a VCR other than JVC, or

■ a JVC VCR which has **neither** a Remote PAUSE nor an R.A. EDIT connector

How to use:

- Connect the playback deck and MBR as shown on the left.
- --- Set the MBR to correspond to the brand of the recording deck (IF P. 33).
- For Random Assemble Editing procedure, please refer to the instruction manual of the JVC VCR you are using as the playback deck.

Notes:

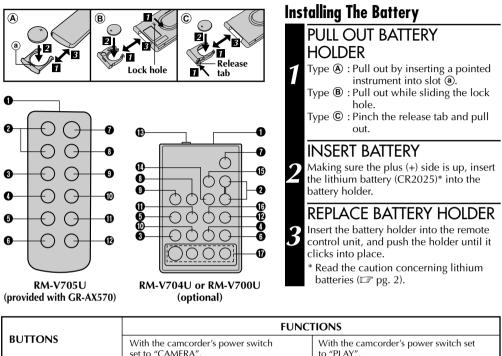
- MBR cannot be used to control the playback deck.
- MBR is capable of controling basic operations of the recording deck. While pressing VCR CTL, press PLAY, STOP, PAUSE, FF or REW for these functions. (Not possible with some brands and models.) Other buttons cannot be used.
- To put the recording deck in the Record-Pause mode, use the controls on the recording deck itself.

USING REMOTE CONTROL UNIT (GR-AX570 on

The Full-Function Remote Control Unit can operate this camcorder from a distance as well as the basic operations (PLAY, STOP, PAUSE, FF, and REW) of your VCR. This remote control unit makes additional recording functions possible.

NOTE:

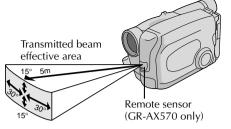
The remote controls cannot operate GR-AX270.



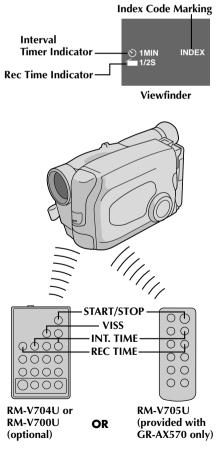
	FUNCTIONS			
BUTTONS	With the camcorder's power switch set to "CAMERA".	With the camcorder's power switch set to "PLAY".		
Infrared beam transmitting window	Transmits the beam signal.			
ZOOM (T/W) Buttons	Zoom (invariable speed, 🖙 pg. 13)	—		
PLAY Button	—	Playback start (🖙 pg. 30)		
STOP Button	—	Stop (🖙 pg. 30)		
REW Button	Retake (rewind)/Quick Review (IF pg. 14)	Rew/Rew Shuttle Search (EF pg. 30)		
INSERT Button	_	Insert Editing (🖙 pg. 38)		
START/STOP Button	Functions same as the Recording Start/Stop button on the camcorder.			
INT. TIME Button	Self-Timer/Time-Lapse (🖙 pg. 37)	—		
REC TIME Button	Animation/Time-Lapse (🖙 pg. 37)	—		
PAUSE Button	—	Pause (🖙 pg. 31)		
FF Button	Retake (forward) (🖙 pg. 14)	FF/FF Shuttle Search (🖙 pg. 30)		
A.DUB Button	—	Audio dubbing (🖙 pg. 39)		
BAUSE IN Connector	—	<i>⊑</i> 7 pg. 34		
MBR SET Button	_	Ľ <i>∓</i> pg. 33		
VISS Button	Index Code marking (🖙 pg. 37)	_		
C VCR CTL Button	_	□ <i>∓</i> pg. 33		
R.A.EDIT Buttons	—	Ľ <i>∓</i> pg. 34		

O : RM-V704U/V700U only. Download from Www.Somanuals.com. All Manuals Search And Download.

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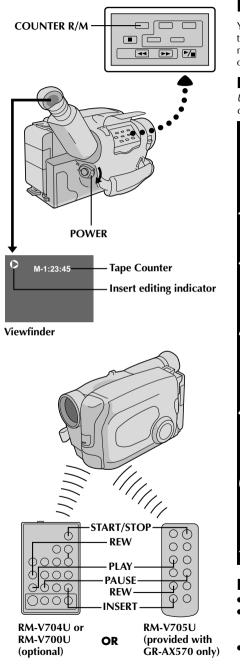
When using the remote control, be sure to point it at the remote sensor. The above illustration shows the approximate transmitted beam effective area for indoor use. The transmitted beam may not be effective or may cause incorrect operation outdoors or when the remote sensor is directly exposed to sunlight or powerful lighting.



FEATURE: PURPOSE: OPERATION:	Self-Timer, Animation and Time-Lapse The remote control lets you set/release Interval Timer and Rec Time functions as well as the Menu screen. Self-Timer
	 Set Instead of performing steps 1 through 3 on pg. 26 ("Self-Timer"), press INT. TIME on the remote control. Each time INT. TIME is pressed, the Interval Timer indicator appears, changing in the following order: 15S, 30S, 1MIN, 5MIN and No indication (off). Release Instead of setting "INTERVAL TIMER" to "OFF" in the Menu, press INT. TIME on the remote control until the Interval Timer indicator disappears. 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 Rec Time indicator appears, changing in the following order: 1/4S, 1/2S, 1S 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 Rec 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 Timer indicator appears, changing in the following order: 15S, 30S, 1MIN, 5MIN and No indication (off). Each time REC TIME is pressed, the Rec Time indicator appears, changing in the following order: 1/4S, 1/2S, 1S and No indication (off). 2) Release Instead of using the Menu in step 5 on pg. 27, press INT. TIME
NOTE:	on the remote control until the indicators disappear. Also refer to pgs. 26 and 27.
FEATURE:	Index Code Marking (RM-V704U or
PURPOSE:	V700U only) To give you automatic access to any
OPERATION:	selected point on a recording.1) Press VISS once to place the index code. "INDEX" blinks in the
NOTE:	viewfinder during marking. If VISS is pressed during Record–Standby mode, the mark is placed where RECORDING START/STOP is pressed.



USING REMOTE CONTROL UNIT (GR-AX570 only) (cont.)

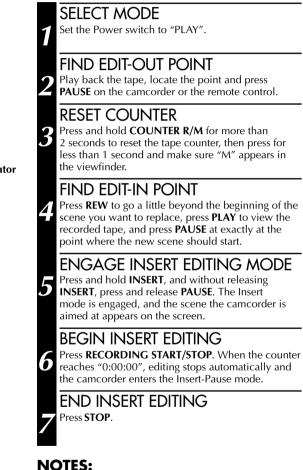


Insert Editing

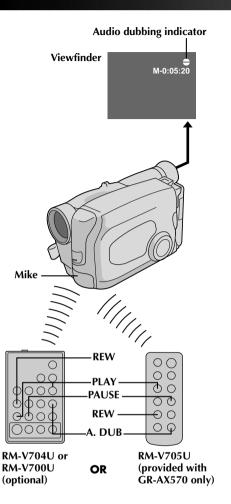
You can record a new scene into a previously recorded tape, replacing a section of the original recording with minimal picture distortion at the in- and out-points. The original audio remains unchanged.

NOTE:

Use the RM-V705U, RM-V704U or RM-V700U remote control unit to perform this procedure.



- After step 5, Retake (🖙 pg. 14) 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 video signal is recorded in the Insert Editing mode.



Audio Dubbing

You can record a new soundtrack on a prerecorded tape (normal audio only).

- ** Perform steps 1, 2 and 3 of the Insert Editing procedure (127 pg. 38) before continuing.
- The sound comes from the built-in mike.

FIND EDIT-IN POINT

Press **REW** to go a little beyond the beginning of the scene onto which you want to dub new audio, press **PLAY** to view the recorded tape, then press **PAUSE** at exactly the point where dubbing should start.

ENGAGE AUDIO DUB STANDBY MODE

Press and hold **A. DUB**, and without releasing **A. DUB**, press and release **PAUSE**.

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.

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 mike is too close to the TV, or if the TV's volume is too high, whistling or howling may occur.

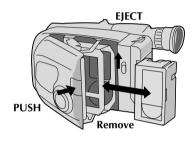
NOTES (for Insert Editing and Audio Dubbing):

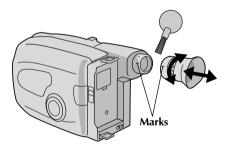
- Insert Editing and audio Dubbing may not work correctly if the tape contains blank segments, or if the recording speed was changed during the original recording.
- To edit/dub onto a tape with the recording safety tab removed, cover the hole with adhesive tape.
- Do not press **STOP** during Insert 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.

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LENS COVER open/close switch

BATT. RELEASE





After Use

Set the Power switch to "POWER OFF" to turn off the camcorder.

Slide EJECT to open the cassette holder, then remove the cassette.

Close and lock the cassette holder by pressing **PUSH**.

Press BATT. RELEASE to remove the battery pack.

Slide the LENS COVER open/close switch to close the lens cover.

Cleaning The Camcorder

CLEAN EXTERIOR

Wipe gently with a soft cloth.

CLEAN LENS

Blow it with a blower brush, then wipe gently with lens cleaning paper.

CLEAN VIEWFINDER

- (1) Turn the eyepiece counterclockwise and pull it out.
- 2 Remove dust using a blower brush.

③ Align the marks, 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.

TROUBLESHOOTING

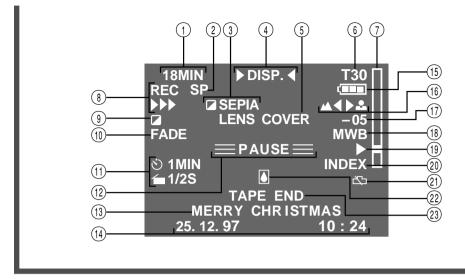
SYMPTOM	POSSIBLE CAUSE(S)
POWER	
No power is supplied.	 The battery pack has not been attached correctly (IP pg. 6). The battery pack is not charged (IP pg. 6). The power supply has not been correctly connected (IP pg. 7).
The power suddenly goes off and doesn't come back on by itself.	 The battery pack has completely discharged. Remove the cassette and disconnect the power source, then after a few minutes, try turning the power back on. If it still doesn't come on, consult your nearest JVC dealer.
RECORDING	
Recording cannot be performed.	• The recording tape's Erase Protection tab is missing. Cover the hole with adhesive tape. (Some tapes have sliding tabs. In this case, check the position of the tab.)
Recording does not start.	• The camcorder Power switch has not been set to "CAMERA" (IIF pg. 12).
PLAYBACK	
The tape is running, but there's 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. The RF unit has not been set to the correct channel.
Noise bars appear in the playback picture.	• Manual Tracking has not been performed (🖙 pg. 31).
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 counter indication is blurred during Still playback.	• This is normal.
TAPE TRANSPORT	
The tape stops during fast-forward or rewind.	 The Counter Memory Function has been activated (IF) pg. 31).
Rewinding or fast-forwarding cannot be performed.	• The tape is already fully wound on one reel or the other.

TROUBLESHOOTING (cont.)

SYMPTOM	POSSIBLE CAUSE(S)
OTHER	
The tape won't eject.	• The battery pack is running low.
Some functions are not available.	• The PROGRAM AE select dial is set to "AUTO LOCK".
Vertical white lines appear when shooting a very bright object.	• This sometimes occurs when the contrast between the background and the object is great. It is not a defect of the camcorder.
Bright, crystal-shaped spots appear in the viewfinder.	• Sunlight is directly entering the lens.
The picture is blurred in the Quick Review or Retake mode.	• This is normal while recording in the LP mode. Some noise may be present while recording in the SP mode (IF pg. 10).
An error number (E03) appears in the viewfinder.	• 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 view-finder, consult your nearest JVC dealer.
The image is out of focus.	 The diopter needs to be adjusted (IF pg. 8). The scene being shot is adversely affecting the operation of Auto Focus (IF pg. 18).
A character generator title and the date and time displays disappear from the viewfinder.	 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.
Even though the Lens Cover is open, the Lens Cover Warning indicator blinks.	• The Lens Cover Warning indicator may blink when the camcorder is used in dark areas, regardless of the position of the Lens Cover.

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.

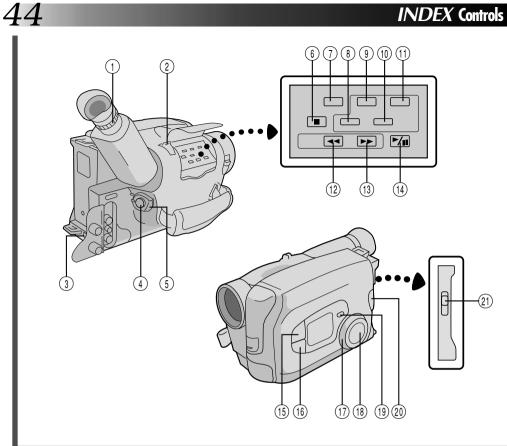
INDEX Viewfinder



Viewfinder Indications

- 1 Cassette Warning/Remaining
- Tape Time Trape Time g. 12 When no cassette is inserted or when Erase Protection tab is not in the position that allows recording, the Cassette () Warning blinks. Otherwise, the Remaining Tape Time is displayed.
- 2 Recording Mode (SP/LP) Indicator 🖙 pg. 10
- ③, ④ PROGRAM AE Indicator IF pg. 16 Displayed at ③ for approx. 1 second when the PROGRAM AE select dial is switched from one position to another. Then only the indicator remains at ④.
- ④ Program Manager Function
- Indication IF pg. 20 Appears when the PROGRAM AE select dial is set to any position other than AUTO LOCK.
- (5) Lens Cover Warning [™] pg. 12
- ⓑ Tape Length Display ☞ pg. 10
- Zoom Level Indicator IF pg. 13
- (i) Recording Indicator 🖙 pg. 12
- (1) Fade–Standby Indicator IF pg. 20
- Interval Time/Recording Time Indicator I pg. 26
- Record–Standby Mode Indicator IF pg. 12
- (1) Instant Title Display 🖙 pg. 21
- (1) Date/Time Character Display IF pg. 22
- (15) Battery Pack Remaining Power Indicator Changes as follows according to the battery pack's remaining power level: "(■■=→(===→(==)". When the power is almost gone, the indicator blinks, then the unit shuts off. Replace the battery pack with a fully charged one. (Note: The symbol containing 3 darkened squares — 🚥 — does not necessarily mean that the battery pack is fully charged.) (16) Focus Indicator IF pg. 18 (1) Exposure Level Indicator 🖙 pg. 17 (18) White Balance Mode Indicator IF pg. 23 (19) Menu Setting Change Indicator 🖙 pg. 24 (2) Index Code Marking IF pg. 37 (21) Clock Warning Displayed for about 5 seconds if the clock (lithium) battery is not in place or is exhausted when power is turned on. Also displayed for about 5 seconds when clock battery becomes exhausted while using the camcorder. For inserting or replacing the clock battery. (🖙 pg. 8) (2) Condensation Warning When this indication appears, all functions are disabled. Turn the unit off (without removing the power source) for a few hours, and when you turn it on again the indicator should disappear.
- (2) Tape End Display IF pg. 12 Appears when the end of the tape is reached during playback, recording or fast-forward.

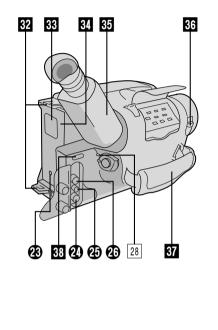
INDEX Controls

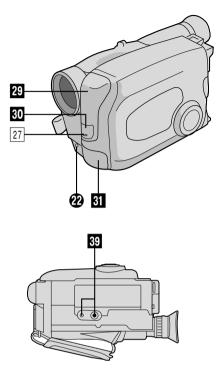


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1	Diopter Adjustment	I	pg.	8
2	Power Zoom Switch	F	pg.	13
3	BATT. [Battery] RELEASE Switch	F	pg.	6
4	Recording Start/Stop Button	F	pg.	12
(5)	POWER Switch	pg.	12,	30
6	STOP Button	F	pg.	30
1	Tape Length [T30•45•60]			
	Select Button	Ŧ	pg.	10
	COUNTER R [Reset]/M [Memory]			
	Button	Ŧ	pg.	31
8	EDIT Button	F	pg.	35
9	Recording Mode [SP/LP] Select			
	Button	II	pg.	10
	R.A.EDIT CANCEL Button	II	pg.	34
(10)	R.A.EDIT Button	F	pg.	34
(11)	R.A.EDIT IN/OUT Button	Ŧ	pg.	34

(12) REW Button I pg. 30
RETAKE R [Quick Review] Button IF pg. 14
(13) FF Button IIF pg. 30
RETAKE F Button 🕼 pg. 14
(1) PLAY/PAUSE Button IF pg. 30
(15) SELECT Button I pg. 20
(16) SET Button 🖙 pg. 20
(1) PROGRAM AE Select Dial IF pg. 16
18 Multi-Function Control
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• Exposure +/ If pg. 1/ • Focus FAR/NEAR If pg. 18
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• Focus FAR/NEAR 🖙 pg. 18
 Focus FAR/NEAR IF pg. 18 Menu Setting Change IF pg. 24
Focus FAR/NEAR F pg. 18 Menu Setting Change F pg. 24 Tracking +/ F pg. 31
Focus FAR/NEAR Focus FAR/NEAR Focus FAR





Connectors

I terminal (JLIP)	(Joint Level Interface Protocol)
Connector.)	

(Located beneath the jack cover)

- Connect the Editing Cable when performing Random Assemble Editing (IIF pg. 34).
- It is used to connect the camcorder to a device such as a personal computer.
 For further detail consult your nearest JVC dealer.
 Information (in English) is also available at our

home page: http://www.jvc-victor.co.jp/

```
    B DC IN Jack ...... □ pg. 7
    P
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The jacks **(2)** to **(2)** are located beneath the jack cover.

- VIDEO OUT Jack F pg. 29
 RF DC OUT Jack F pg. 29
- ☑ AUDIO OUT Jack
 ☑ arg pg. 29

Indicators

27 Tally Lamp	🕼 pg. 12
28 Power On Indicator	🕼 pg. 12

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29 Video Light (GR-AX570 only) 🖙 pg. 15
30 • Camera sensor
Be careful not to cover this area; built-in
here is the sensor necessary for shooting.
• Remote sensor (GR-AX570 only) 🖙 pg. 37
31 Microphone 🖙 pg. 39
32 Shoulder Strap Eyelets 🖙 pg. 11
33 Clock Battery Compartment 🕼 pg. 8
34 Battery Pack Mount 🕼 pg. 6
35 Electronic Viewfinder 🖙 pg. 8
36 LENS COVER Switch ☞ pg. 12
37 Grip Strap 🖙 pg. 11
38 VIDEO LIGHT ON/AUTO/OFF
Switch (GR-AX570 only) 🖙 pg. 15
39 Tripod Mounting Socket 🖙 pg. 11

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CAUTIONS

Video Light

- The video light becomes extremely hot. Do not touch it either while in operation or soon after turning it off, otherwise serious injury may result.
- Do not place the camcorder into the carrying case immediately after using the video light, since it remains extremely hot.
- When operating, keep a distance of about 30 cm between the video light and people or object.
- Do not us e near flammable or explosive materials.

Serious malfunctioning

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

General Battery Precautions

- When the C-P6U or C-P7U (cassette adapter) is not functioning even when correctly operated, the batteries are exhausted. Replace them with fresh ones.
- Use only the following battery: C-P6U or C-P7U R6(AA) size Please make note of the following rules for battery

use. When misused, batteries can leak or explode.

- **1.** Refer to the C-P6U/C-P7U instructions when replacing the battery.
- **2. Do not** expose batteries to excessive heat as they can leak or explode.
- 3. Do not dispose of batteries 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 supplied battery pack is a nickel-cadmium battery. 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 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.
- 3. To prevent damage to the camcorder . . .
 - replace the battery pack when it begins to deliver less recording time per charge.

NOTE:

It is normal for the battery pack to be warm after charging, or after use.

Temperature Ranges

Charging	10°C to 35°C
Operation	0°C to 40°C
Storage	-10°C to 30°C

NOTES:

- Recharging time is based on room temperature of 20°C.
- 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.

CAUTIONS (cont.)

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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 extremely low (under 0°C) temperatures.

3. DO NOT leave the unit . . .

- in places of over 50°C.
- 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.
- swing it excessively when using the shoulder strap.
- 5. This camcorder features a built-in head cleaner which automatically cleans the heads and head drum when a cassette is loaded or unloaded. If, however, the heads become dirty and cause blurriness or interruption in the playback picture, consult your nearest JVC dealer.

About moisture condensation . . .

- You 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.

SPECIAL NOTES ON VIDEO HEADS

Dust and dirt on video heads

- Always allow enough time for your camcorder to acclimatize to its environment before using it.
- **2.** Do not use the unit in areas of high humidity. (Typical areas of high humidity are given below.)
 - From being used or stored in a very cold outdoor situation, then immediately being used in a warm indoor situation.
 - From being used or stored in a cool air-conditioned situation, then being used in a high-humidity outdoor situation.
 - Other areas where rapid large temperature changes can occur.
- 3. Taking care of your "C" format video cassette tapes..
 - Store the video cassette tapes in a vertical position, complete in their cassette cases.
 - During transportation, always store cassettes in their cassette cases.
- **4.** Check recorded information at regular intervals. If the camcorder is equipped with a quick review facility, use this facility to check whether the picture is clear or not.

If the quick review or playback picture is not clear, then the video heads may be dirty.

Note:

As a maladjusted tracking control can give similar symptoms to dirty video heads, please check that the tracking control of the unit is in the centre position.

Cleaning the video heads

Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Although this camcorder is equipped with a built-in head cleaner which automatically cleans the heads, reducing the likelihood of dirty heads, if such troubles are encountered, we recommend the use of the cleaning cassette specifically designed for JVC camcorders, model number TCC-2U. Please use the cleaning cassette as indicated below:

- After inserting the cleaning cassette, activate the Play mode for a maximum of 15 seconds (normally, 5 seconds is sufficient).
- Remove the cleaning cassette and check the playback picture with a previously good-recorded tape.
- ③ If the picture is clear, then recording on a new tape can begin when desired.
- ④ If the picture is not clear, repeat steps 1 to 3 up to two more times.
- (5) If the picture is still unclear, consult your local JVC dealer.

Important Note:

If heads have become dirty, the associated tape will also be damaged, please do not use the tape again.

- * A built-in head cleaner automatically cleans the video heads and head drum whenever a cassette is loaded and unloaded to reduce head clogging.
- * Cleaning cassette TCC-2U is available from your JVC local dealer.

SPECIFICATIONS

GENERAL

GENERAL	
Format	: VHS PAL standard
Power source	: DC 6V ===
Power consumption	
GR-AX570 light on	: 8.5 W
GR-AX570 light off	: 5.5 W
GR-AX270	: 5.3 W
Signal system	: PAL-type
Video recording system	i i i i i i i jpe
Luminance	: FM recording
Colour	: Converted sub-carrier
coloui	direct recording
	Conforms to VHS
	standard
Cassette	: VHS-C cassette
Tape speed	. Who e cusselle
SP	: 23.39 mm/sec
IP	: 11.70 mm/sec
Recording time Max.	. 11.70 mm/see
SP	: 60 minutes
51	(with EC-60 cassette)
LP	: 120 minutes
LI	(with EC-60 cassette)
Operating temperature	$: 0^{\circ}C \text{ to } +40^{\circ}C$
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to +50°C
Weight	20 C 10 +30 C
GR-AX570	: Approx. 810 g
GR-AX270	: Approx. 820 g
Dimensions	. Approx. 020 g
(Including viewfinder)	
GR-AX570	: 112 (W) x 112 (H)
GR-77570	x 208 (D) mm
GR-AX270	: 112 (W) x 112 (H)
GR-AA2/0	x 229 (D) mm
	x 229 (D) IIIII
CAMERA	
Pick up	: 1/4" format CCD
Lens	: F1.6, f = 3.8 to 68.4 mm,
Lens	18:1 power zoom lens
	with auto iris and macro
	control, filter diameter
	46 mm
Viewfinder	: Electronic viewfinder
	with
	• 0.55" color LCD
	(GR-AX570)

White balance adjustment

VIDEO

Output

: 1 Vp-p, 75 ohms, unbalanced (via VIDEO out connector)

• 0.5" Black/white CRT

: Auto/Manual adjustment

(GR-AX270)

AUDIO

Output	: –8 dBs, 1 k-ohm (via
	AUDIO out connector)

AC POWER ADAPTER/BATTERY CHARGER (AA-V11EA) SPECIFICATIONS

Power requirement	: AC 110 to 240 V√, 50/60 HZ
Power consumption	: 23 W
Output	
Charge	: DC 8.5 V 💳, 1.3 A
VTR	: DC 6.3 V ===, 1.8 A
Charging system	: Constant current, peak detection, timer controlled
Dimensions	: 150 (W) x 42 (H) x 68 (D) mm
Weight	: Approx. 350 g

CASSETTE ADAPTER (C-P7U) SPECIFICATIONS

Dimensions	: 188 (W) x 25 (H) x 104 (D) mm
Weight	: Approx. 240 g
Accessory	: "R6 (AA)"-size battery x 1

Provided Accessories Provided Accessories

Optional Accessories

 Battery Packs BN-V12U 	, BN-V22U,	BN-V25U
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- Car Battery Charger BH-V3E
- RF Unit RF-V5E
- Compact VHS-C Cassettes EC-60/45/30
- Active Carrying Bag CB-V7U
- Wireless Remote Control Unit (MBR) RM-V704U or RM-V700U

The RM-V704U/V700U cannot be used to operate the GR-AX270.

The GR-AX270 can use the RM-V704U/V700U only for R.A.Edit with a non-JVC VCR.

Some acccessories 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.

MEMO

MEMO



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