JVC



COMPACT VHS CAMCORDER

GR-AX275

ENGLISH







INSTRUCTIONS



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 (pg. 3).
- Notes appear after most subsections. Be sure to read these as well.
- Basic and advanced features/operation are separated for easier reference.

It is recommended that you . . .

- refer to the Index (pgs. 38 40) and familiarize yourself with button locations, etc. before use.
- read thoroughly the Safety Precautions that follow and cautions (pgs. 41, 42). 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.

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.

VHSP HELL

- 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.

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 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.

Crossed Out Dust Bin Mark



Mark on the battery pack indicates that the product complies with Directives 91/157/EEC and 93/86/EEC.

■ The Crossed Out Dust Bin

Cd

 Nickel-Cadmium (Ni-Cd) battery pack must be recycled or disposed of properly.

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 is possible anywhere. Use the BN-V12U/V22U/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.)

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.

MAJOR FEATURES

■ Programme	Manager	(⊯ pg.	12 – 23)
■ В кодкаро	A E with	Special	Effocts

■ Programme AE with Special Effects (
(CF pgs. 12, 13)

- Auto Mode Lock
- Auto Mode Release
- Electronic Fog Filter ND Effect
- Sepia Twilight Sports
- 1/1000 sec. High Speed Shutter
- 1/2000 sec. High Speed Shutter
- Variable-Speed Hyper Zoom (□ pg. 11)
- EasyEdit with Random Assemble Editing (© pg. 29 31)

PROVIDED ACCESSORIES



• AC Power Adapter/ Charger AA-V11EG



• Battery Pack BN-V12U



• Cassette Adapter C-P7U



• Shoulder Strap



• AUDIO/VIDEO (A/V) cable



DC cord



• Cable Adapter

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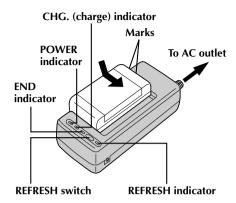
 Remote Control Unit RM-V705U



• Lithium Battery CR2025 x 2

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Charge marker



** 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

1

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.

BATT. PACK	APPROXIMATE RECORDING TIME
BN-V12U	1 hr. 10 min.
BN-V22U	2 hrs. 25 min.
BN-V25U	3 hrs. 10 min.

**REFRESH

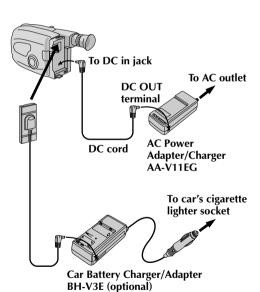
The AC power adapter features a REFRESH function that allows you to fully discharge the battery pack before recharging.

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 4 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 illustration to the left).

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.

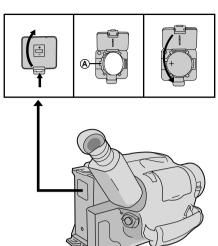
USING AC POWER

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

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

2 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" (pg. 2) for information on safe handling of lithium batteries.

Viewfinder Adjustment

POSITION VIEWFINDER

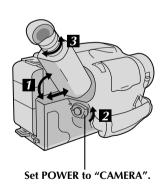
Adjust the viewfinder manually for best viewability (see illustration at left).

SELECT MODE

• Set the power switch to "CAMERA".

ADJUST DIOPTER

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

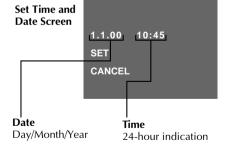


MENU PROGRAM AF select dial **NEAR** FAR

GAIN UP TELE MACRO INTERVAL TIMER REC TIME Menu Screen JLIP ID NO. SET CHARACTER DATE/TIME

END:MENU KEY





Date/Time Setting

SFIECT MODE

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

ACCESS MENU SCREEN

Press MENU.

SELECT FUNCTION

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

SET DATE/TIME

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

- 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 MENU.
- If you're satisfied with the settings, go on to step 5.

START CLOCK OPERATION

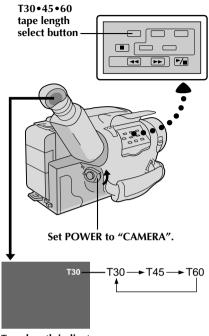
Once you've set the day, month, year and time, press FAR or NEAR until "SET" begins to blink, then press **MENU**. The Menu screen reappears.

CLOSE MENU

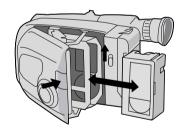
Press MENU.

- To display the date and time in the viewfinder and on a connected TV, see "Date/Time Insert" (pg. 18).
- 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.





Tape length indicator





Tape Length Setting

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

SET TAPE LENGTH Press T30 • 45 • 60 until the

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

NOTE:

The tape remaining time (pg. 10) displayed in the viewfinder is correct only if the correct tape length has been selected.

Loading/Unloading A Cassette

OPEN CASSETTE HOLDER

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

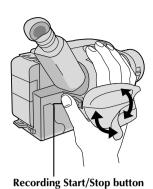
INSERT/REMOVE CASSETTE

Make sure the label is facing outward.

CLOSE CASSETTE HOLDER

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

- 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.



Grip Adjustment

EXPAND LOOP

Separate the Velcro strip.

INSERT HAND

2 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.



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.

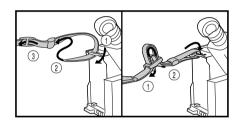
ADJUST LENGTH

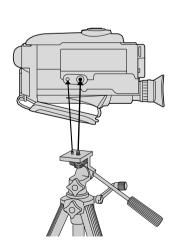
Adjust as shown in the illustration at left ①, then slide both keepers snug against the eyelets to prevent slipping ②.

Tripod Mounting

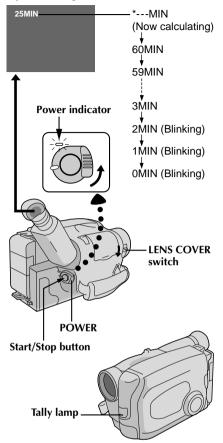
ALIGN AND TIGHTEN

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





Tape remaining time indicator



NOTE:

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

- Power (□ pg. 4)
- Tape Length setting (F pg. 8)
- Grip Adjustment (☐ pg. 9)

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.

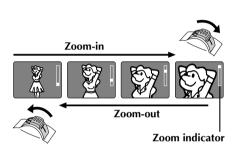
STOP RECORDING

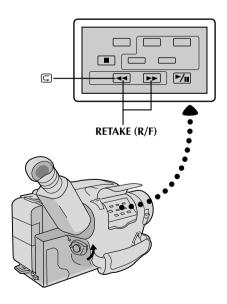
Press the **RECORDING START/STOP** button again to stop recording.

 The camcorder re-enters the Record-Standby mode.

- 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 (p. 8).
- "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 (pg. 11) 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.
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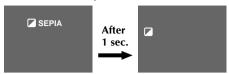




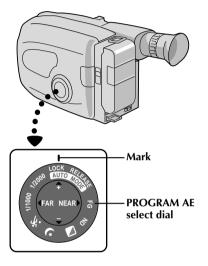
FEATURE: PURPOSE: OPERATION: NOTES:	Varies the focal length of the lens and produces the zoom in/out effect. Zoom In 1) Pull the power zoom switch down toward "T". Zoom Out 1) Push the switch up toward "W". • The further the power zoom switch is pushed, the faster the zoom speed becomes. • Focusing may become unstable during zooming. In this case, set the zoom while in Record—Standby, set manual focus or Focus Lock (□ pgs. 14, 15), then zoom in or out in Record mode.
FEATURE:	Quick Review
PURPOSE:	To check the end of the last record-
OPERATION:	ing. 1) Press "©" and release quickly during the Record–Standby mode. • Tape is rewound for about 2 seconds and played back automatically, then pauses in Record–Standby mode for the next shot.
NOIE:	Distortion may occur at start of playback. This is normal.
FEATURE: PURPOSE: OPERATION: NOTE:	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. Noise may appear during Retake. This is normal.

RECORDING Advanced Features

1 second later, the mode is activated.



Viewfinder



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 (pg. 16) 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 flourescent or mercury-vapour lights.

DIAL SYMBOL VIEWFINDER 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 Mode Release

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

SYMBOL	INDICATION	MODE
FG	FG:FOG	Electronic Fog Filter

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 ND:ND EFFECT ND Effect

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 Sepia

Sepia

The scene being shot is recorded in sepia-tinted (reddish-brown) monochrome, giving the effect of an older movie. Use together with Wide (F) pg. 16) for the authentic look of a classic Hollywood movie.



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.
- 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 (pg. 15).





Sports

High shutter speed clearly captures fast-moving action.



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

Exposure Control

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 . . .

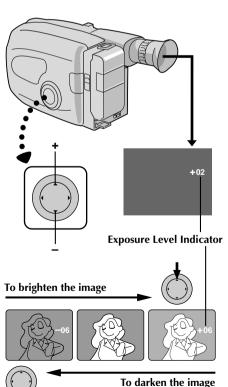
DARKEN IMAGE

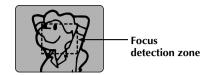
Press – (maximum –06). The Exposure level indicator appears in the viewfinder.

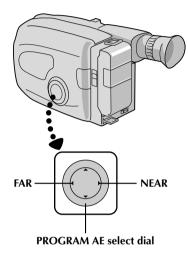
When you want to return to the factory setting . . .

RESTORE INITIAL SETTING

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







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 "▲ ◀ ▶ ♣ " appears in the viewfinder.

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.

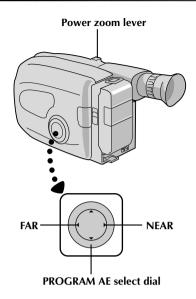
LOCK FOCUS

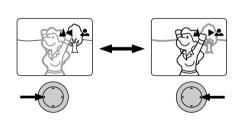
Press FAR or NEAR. The focus lock indication "A&" appears in the viewfinder.

RELEASE FOCUS LOCK

3 Press **FAR** and **NEAR** simultaneously. The focus lock indication disappears.

- If the lens is smeared or blurred, accurate focusing is not possible. Keep the lens clean, wiping with a piece of soft cloth if it gets dirty. When condensation occurs, wipe with a soft cloth or wait for it to dry naturally.
- When shooting a subject close to the lens, zoom-out first (□ pg. 11). 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 (□ pg. 21) is activated, the camcorder will not zoom out automatically.





Manual Focus

NOTE:

You should already have made the necessary viewfinder adjustments (pg. 6). If you haven't, do so before continuing.

SFIFCT 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.

- 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.

Fade-Standby indication FADE SELECT button PROGRAM AE select dial SET button

FADE IN

FADE OUT

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.

ENGAGE 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

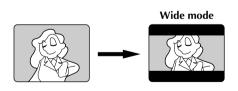
Press Recording Start/Stop to end recording and engage fade-out.

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 (☐ pg. 13).
- With the Electronic fog filter mode (pg. 12) engaged, the image fades in/out to a white screen.

Wide

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



SELECT MODE

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

SELECT FUNCTION

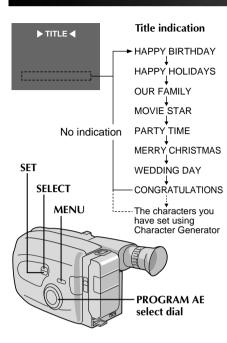
Press **SELECT** repeatedly until "**►WIDE ◄**" appears.

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

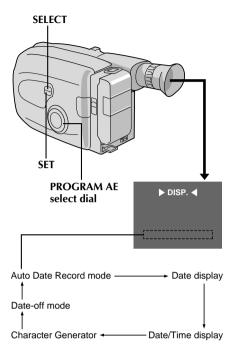
Press +, -, FAR or NEAR to make "END" blink, then press MENU twice to return to the normal screen.

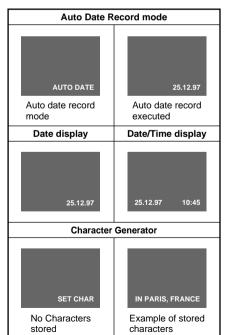
NOTES:

- 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" (pg. 18).
 Characters may be set only in the Record-Standby mode.

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 $18_{\scriptscriptstyle \mathsf{EN}}$ 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 (pg. 7). 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:

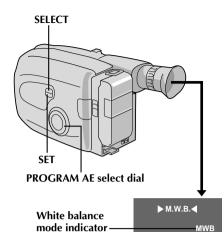
- The selected display can be recorded.
- If you don't want to record the display, select Date-off mode before shooting.
- If you want to delete the display during shooting, press
 SFT
- If you want to call back a deleted display, engage the Record–Standby mode and then select the desired display mode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

AUTO DATE RECORD

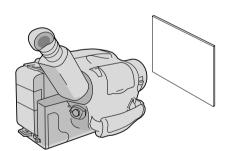
Your camcorder automatically records the day, month and year for about 5 seconds after recording is initiated in the following situations:

- 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".

- 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.







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

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.

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 (F) pg. 15).

ADJUST WHITE BALANCE

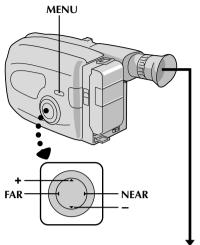
Press **SET** until "MWB" appears, then press and hold **SET** for more than 3 seconds.

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

- 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 PROGRAM 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" \$\mathbb{\su}\$ pg. 25).

 ### Property of the subject in step 2 ("ADJUST FOCUS") this unit makes its co
- 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.
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RECORDING Advanced Features (cont.)



GAIN UP S.LX TELE MACRO OFF INTERVAL TIMER OFF REC TIME OFF JLIP ID NO. 07 SET CHARACTER DATE/TIME END :MENU KEY





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 – **P** pg. 17; DATE/TIME – **P** pg. 7).

CLOSE MENU

Press MENU. The normal screen reappears.

NOTE:

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

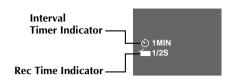
MENU

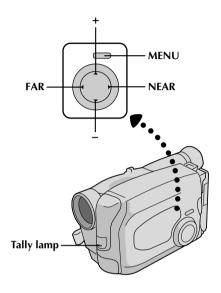
GAIN UP	S.LX	To record a subject in a dark lit environment. When it is more convenient to shoot the subject with a brighter image even if the picture becomes slightly coarse. Automatically selected when the PROGRAM AE select dial is set to AUTO LOCK mode. (S.LX: Super LoLux)	
	► NORM	To record a subject 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.	
TELE MACRO	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.	
INTERVAL TIMER	OFF 15 S 30 S 1 MIN 5 MIN	15 S (IF) pg. 22) and Time-Lapse recording (IF) pg. 23). 30 S 1 MIN	
REC TIME	OFF 1/4 S 1/2 S 1 S	This feature allows you to set the parameters for Animation and Time-Lapse recording (pg. 23).	
JLIP ID NO.	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.		
SET CHARACTER	Allows you to input characters. (🕼 pg. 17).		
DATE/TIME	Allows you to set the current date and time (pg. 7).		

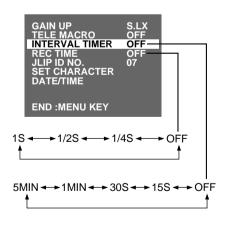
= Factory setting and when the PROGRAM AE Select Dial is set to AUTO LOCK

NOTE:

During shooting in low light, Auto Focus accuracy may decrease even when Gain Up is used. In this case, use Manual Focus (pg. 15).







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.

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 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:

- 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 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 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

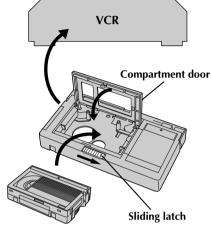
Press the Recording Start/Stop button. Recording and intervals alternate automatically.

RELEASE TIME-LAPSE MODE

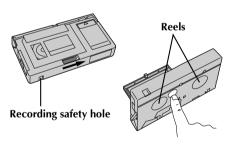
To release when the tally lamp is not blinking, set "REC TIME" and "INTERVAL TIMER" in the Menu screen to "OFF". To release when the tally lamp is blinking, press the Recording Start/Stop button to stop the blinking, then set "INTERVAL TIMER" and "REC TIME" in the Menu screen to "OFF".

PLAYBACK Using The Cassette Adapter

⊕ ⊙ ⊝



Compact video cassette



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

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

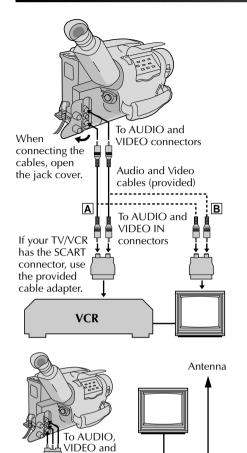
PLAY BACK ON CONNECTED VCR

2 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.

- 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.



NOTES:

 It is recommended to use the AC Power Adapter/Charger as the power supply instead of the battery pack.

RF unit RF-V5E

(optional)

RF DC OUT

connectors

- 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 provided Audio and Video cables.

CONNECT CAMCORDER TO VCR

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

SUPPLY POWER

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 provided Audio and Video cables.

CONNECT CAMCORDER TO TV

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

SELECT MODE

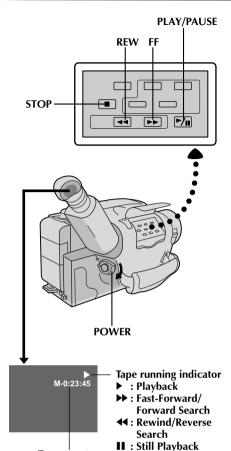
2 Set the TV to its VIDEO or AV mode (as specified in its instructions).

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.



Tape counter

NOTE:

Make sure you connect your camcorder as directed in "Basic Connections" (pg. 25).

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

2 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

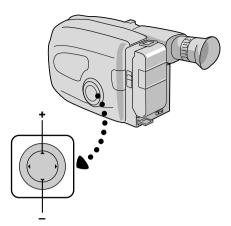
Press **STOP**.

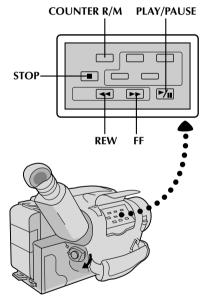
Rewind or Fast-forward the tape

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".





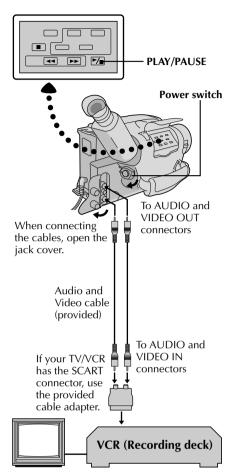
	$_{\scriptscriptstyle extsf{EN}}2^{\cdot}$
FEATURE: PURPOSE: OPERATION: NOTES:	Manual Tracking To eliminate noise bars that appear on the screen during playback. 1) Press either +/- button as many times as necessary for best picture. • To reset TRACKING to the original preset, press both + and – buttons 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:	Counter Memory Function To make it easier to locate a specific tape segment. 1) Press COUNTER R/M and hold for more than 2 seconds. The counter resets to "0:00:00". 2) Press COUNTER R/M. "M" appears. 3) After recording or playback, press STOP, then REW. The tape automatically stops at or close to 0:00:00. 4) Press PLAY/PAUSE to start playback.

NOTES:

• The counter memory functions in the FF and REW modes.

• To disable Counter Memory Function, press **COUNTER R/M** so the "M" disappears.

 $28_{ ext{ iny EDITING}}$



Tape Dubbing

CONNECT FQUIPMENT

7 Following the illustration at left, connect the camcorder and the VCR.

PREPARE FOR DUBBING

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

SELECT VCR MODE

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

FIND EDIT-IN POINT

Engage the camcorder's Play mode to find a spot just before the edit-in point. Once it's reached, press PAUSE on the camcorder.

START EDITING

5 Press **PLAY** on the camcorder and engage the VCR's Record mode.

STOP EDITING TEMPORARILY

6 Engage the VCR's Record-Pause mode and press PAUSE on the camcorder.

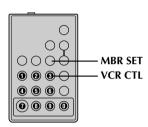
EDIT MORE SEGMENTS

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

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.

* The RM-V704U or RM-V700U is available optionally.



RM-V704U or RM-V700U

VCR CODE LIST

VCR BRAND NAME	BUTTONS (A) (B)
AKAI	6 0 6 0
BLAUPUNKT	0 0
FERGUSON	9 0 9 0 9 0
GRUNDIG	0 0 0 0
HITACHI	0 0 0 0
JVC A B C	9 0 9 6 9 6
MITSUBISHI	0 0 0 0
NEC	0 0 0 0
PANASONIC	0 0 0 0 0 0 0 0

VCR BRAND NAME	BUTTONS (A) (B)
PHILIPS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SANYO	8 6 8 6
SELECO, REX	0 0 0 6
SHARP	0 0
SONY	6 6 6 0 3 9 3 0
THOMSON, TELEFUNKEN, SABA, NORDMENDE	9 0 9 6 9 0 8 0
TOSHIBA	0 0 0 0

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 VCR CODE LIST.
- Some brands of VCR don't come on automatically. In this case, turn the power on manually and try step 2.
- If the RM-V704U or RM-V700U is not able to control the VCR, use the controls on the VCR.

MAKE CONNECTIONS

CONNECT TO . . .

A JVC VCR EQUIPPED WITH REMOTE PAUSE TERMINAL

Connect the editing cable to the Remote PAUSE terminal.

B JVC VCR NOT EQUIPPED WITH REMOTE PAUSE TERMINAL

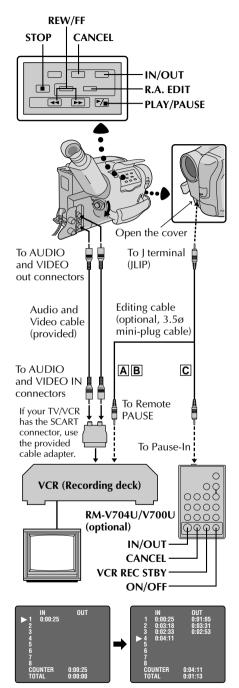
Connect the editing cable to the R.A.EDIT connector.

© NON-JVC VCR WITH NEITHER

Connect the editing cable to the RM-V704U/V700U's Pause-In jack.

All other connections are as shown in the illustration on page 30.

CONTINUED ON NEXT PAGE



PREPARE CAMCORDER

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

PRFPARF VCR

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

SELECT SCENES

ACCESS R.A. EDIT COUNTER DISPLAY

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).

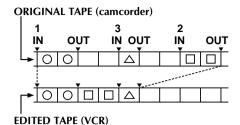
MAKE CORRECTIONS

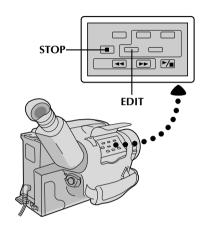
5 Press **CANCEL** during steps **2** and **3** to erase the most recently registered point.

NOTES:

- The RM-V704U/V700U can be used to operate other camcorder functions as well. Point the RM-V704U/V700U at the camcorder's remote sensor and press any of the following buttons (function apears 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.

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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.

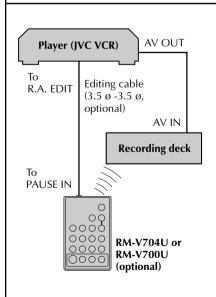
END AUTOMATIC EDITING

- 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 1c on page 29 ("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 RM-V704U/V700U remote control, it is also possible to perform deck-to-deck Random Assemble Editing. The playback deck must be an R.A. Edit-capable IVC VCR. The recording deck can be...

- a VCR other than IVC, or
- a JVC VCR which has **neither** a Remote PAUSE nor an R.A. FDIT connector

How to use:

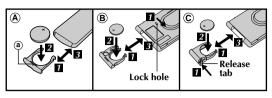
- Connect the playback deck and RM-V704U/V700U as shown on the left.
- Set the RM-V704U/V700U to correspond to the brand of the recording deck. (□ pg. 29)
- For Random Assemble Editing procedure, please refer to the instruction manual of the JVC VCR you are using as the playback deck.

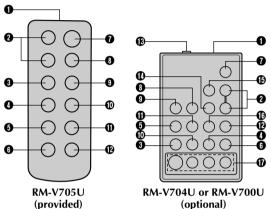
Notes:

- RM-V704U/V700U cannot be used to control the playback deck.
- RM-V704U/V700U 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.

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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.





Installing The Battery

PULL OUT BATTERY HOLDER

Type (a): Pull out by inserting a pointed instrument into slot (a).

Type **(B)**: Pull out while sliding the lock hole.

Type © : Pinch the release tab and pull

INSERT BATTERY

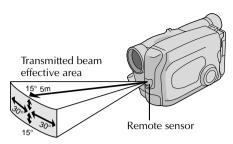
Making sure the plus (+) side is up, insert the lithium battery (CR2025)* into the battery holder.

REPLACE BATTERY HOLDER

Insert the battery holder into the remote control unit, and push the holder until it clicks into place.

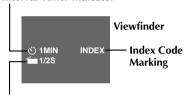
* Read the caution concerning lithium batteries (pg. 2).

	FUNCTIONS		
BUTTONS	With the camcorder's power switch set to "CAMERA".	With the camcorder's power switch set to "PLAY".	
1 Infrared beam transmitting window	Transmits the beam signal.		
2 ZOOM (T/W) Buttons	Zoom (invariable speed, 🖙 pg. 11)	_	
3 PLAY Button	_	Playback start (F pg. 26)	
O STOP Button	_	Stop (□ pg. 26)	
6 REW Button	Retake (rewind)/Quick Review (F pg. 11)	Rew/Rew Shuttle Search (127 pg. 26)	
6 INSERT Button	— Insert Editing (□ pg. 34)		
T START/STOP Button	Functions same as the Recording Start/Stop button on the camcorder.		
3 INT. TIME Button	Self-Timer/Time-Lapse (ℂℱ pg. 33) —		
REC TIME Button	Animation/Time-Lapse (LF pg. 33)	_	
PAUSE Button	_	Pause (□ pg. 26)	
① FF Button	Retake (forward) (🖙 pg. 11)	FF/FF Shuttle Search (🖙 pg. 26)	
② A.DUB Button	_	Audio dubbing (🖙 pg. 35)	
18 PAUSE IN Connector		© pg. 30	
MBR SET Button	_	© pg. 29	
VISS Button	Index Code marking (F) pg. 33)	_	
(i) VCR CTL Button	_	© pg. 29	
R.A.EDIT Buttons	_	□ pg. 30	



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.

Interval Timer Indicator

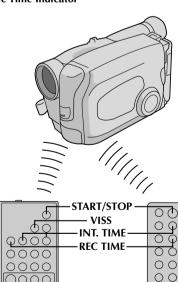


Rec Time Indicator

RM-V704U or

RM-V700U

(optional)



OR

FEATURE: PURPOSE:

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.

OPERATION: Self-Timer

1) Set

Instead of performing steps 1 through 3 on pg. 22 ("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: 155, 305, 1MIN, 5MIN and No indication (off).

2) 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. 23 ("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. 23, 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. 23 ("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. 23, press **INT. TIME** and **REC TIME** on the remote control until the indicators disappear.

NOTE: FEATURE: Also refer to pgs. 22 and 23.

Index Code Marking

PURPOSE:

(RM-V704U/V700U only)
To give you automatic access to any selected point on a recording.

OPERATION:

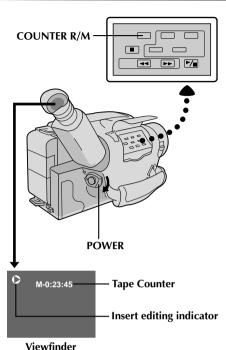
1) Press **VISS** once to place the index code. "INDEX" blinks in the viewfinder during marking.

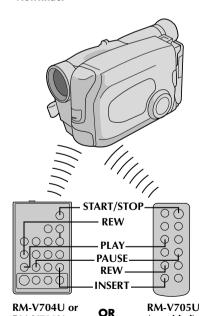
If VISS is pressed during Record—Standby mode, the mark is placed where RECORDING START/STOP is pressed.

NOTE:

RM-V705U

(provided)





RM-V700U

(optional)

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.

SELECT MODE

Set the Power switch to "PLAY".

FIND EDIT-OUT POINT

Play back the tape, locate the point and press **PAUSE** on the camcorder or the remote control.

RESET COUNTER

Press and hold **COUNTER R/M** for more than 2 seconds to reset the tape counter, then press for less than 1 second and make sure "M" appears in the viewfinder.

FIND EDIT-IN POINT

Press **REW** to go a little beyond the beginning of the scene you want to replace, press **PLAY** to view the recorded tape, and press **PAUSE** at exactly at the point where the new scene should start.

ENGAGE INSERT EDITING MODE

Press and hold **INSERT**, and without releasing **INSERT**, press and release **PAUSE**. The Insert mode is engaged, and the scene the camcorder is aimed at appears on the screen.

BEGIN INSERT EDITING

Press **RECORDING START/STOP**. When the counter reaches "0:00:00", editing stops automatically and the camcorder enters the Insert-Pause mode.

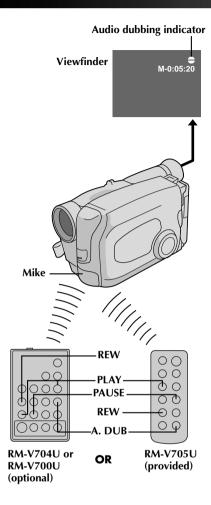
END INSERT EDITING

Press **STOP**.

NOTES:

- After step 5, Retake (□ pg. 11) 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.

(provided)



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 (F) pg. 34) before continuing.
- The sound comes from the built-in mike.

FIND FDIT-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.

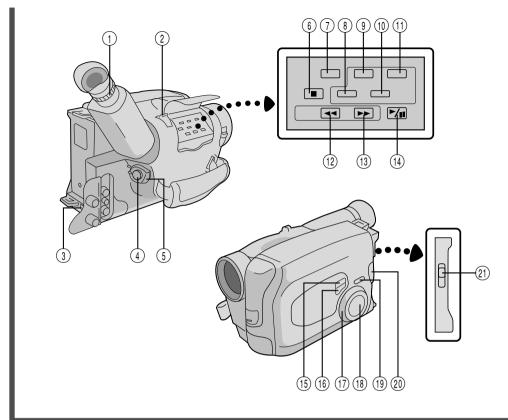


SYMPTOM	POSSIBLE CAUSE(S)	
POWER		
No power is supplied.	 The battery pack has not been attached correctly ((pg. 4). The battery pack is not charged (pg. 4). The power supply has not been correctly connected (pg. 5). 	
The power suddenly goes off and doesn't come back on by itself.	 The battery pack 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" (☞ pg. 10).	
PLAYBACK		
The tape is running, but there's no playback picture.	 The TV has not been set to its VIDEO mode. 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. 27). 	
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 (☐ pg. 27). 	
Rewinding or fast-forwarding cannot be performed.	• The tape is already fully wound on one reel or the other.	

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.	
An error number (i.e. 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 (pg. 6). The scene being shot is adversely affecting the operation of Auto Focus (pg. 14). 	
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.

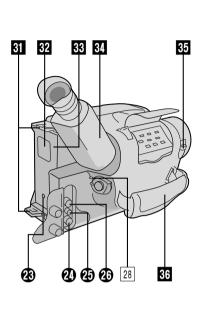
38_{EN} INDEX Controls

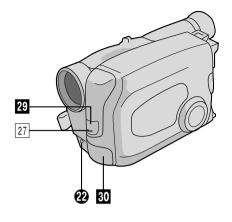


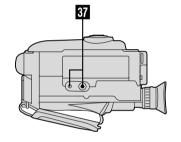
Controls

U	Diopter Adjustment	تجا	pg.	6
2	Power Zoom Lever	II.	pg.	11
3	BATT. [Battery] RELEASE Switch	I	pg.	4
4	Recording Start/Stop Button	II.	pg.	10
(5)	POWER Switch	II.	pg.10	0,26
6	STOP Button	T	pg.	26
7	Tape Length [T30•45•60] Select Button	I	pg.	8
	Button	I	pg.	27
8	EDIT Button	T,	pg.	31
9	R.A.EDIT CANCEL Button	T	pg.	30
10	R.A.EDIT Button	T	pg.	30
(1)	R.A.EDIT IN/OUT Button	I	pg.	30
12)	REW Button RETAKE R [Quick Review] Button			

(13) FF Button [27] pg. 26
RETAKE F Button pg. 17
14 PLAY/PAUSE Button IF pg. 20
(15) SELECT Button
(f) SET Button □ pg. 10
17) PROGRAM AE Select Dial pg. 12
® Multi-Function Control
• Exposure +/ 🖙 pg. 13
Focus FAR/NEAR □ pg. 14
Menu Setting Change □ pg. 20
• Tracking +/− 🖙 pg. 22
(19) MENU Button
② PUSH Button 🖙 pg. 8
②1 EJECT Switch Fg. 8







Connectors

22 | terminal (JLIP (Joint Level Interface Protocol) Connector.)

(Located beneath the jack cover)

- Connect the Editing Cable when performing Random Assemble Editing (F pg. 30).
- 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/

② DC IN Jack
☐ pg. 5 The jacks **20** to **26** are located beneath the jack

cover. ② VIDEO OUT Jack
□ pg. 25

② RF DC OUT Jack...... □ pg. 25

1 AUDIO OUT Jack □ pg. 25

Indicators

- [27] Tally Lamp [27] pg. 10

Other Parts

29 • Camera sensor Be careful not to cover this area; built-in here is the sensor necessary for shooting.

• Remote sensor 🖙 pg. 33 **30** Microphone **27** pg. 35

31 Shoulder Strap Eyelets 🖙 pg. 9

32 Clock Battery Compartment

pg. 6

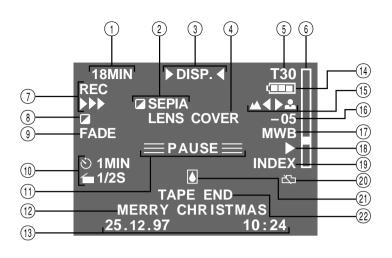
33 Battery Pack Mount Fg pg. 4

34 Electronic Viewfinder 🖙 pg. 6 35 LENS COVER Switch 🖙 pg. 10

36 Grip Strap 🖙 pg. 9

37 Tripod Mounting Socket pg. 9

28 Power On Indicator Pg. 10
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Viewfinder Indications ① Cassette Warning/Remaining

0
Tape Time pg. 10
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, ③ PROGRAM AE Indicator
PROGRAM AE select dial is switched from one
position to another. Then only the indicator
remains at ⑧.
③ Program Manager Function
Indication
Appears when the PROGRAM AE select dial is
set to any position other than AUTO LOCK.
(4) Lens Cover Warning F pg. 10
(5) Tape Length Display 🖙 pg. 8
(§) Zoom Level Indicator 🖙 pg. 11
7 Recording Indicator pg. 10
(9) Fade–Standby Indicator
10 Interval Time/Recording
Time Indicator
$\stackrel{\mbox{\scriptsize (1)}}{}$ Record–Standby Mode Indicator $\ensuremath{ \ensuremath{ \ensuremath{ \square} \ensuremath{ \ensuremath{ \ensuremath{ \square} \ensuremath{ \ensuremath{ \ensuremath{ \ensuremath{ \ensuremath{ \square} \ensuremath{ \$
12 Instant Title Display 🖙 pg. 17

13 Date/Time Character Display pg. 18

(1) Battery Pack Remaining Power Indicator Changes as follows according to the battery pack's remaining power level: """ \" \" \" \" \" \" \" \" \" \" \" \"
(15) Focus Indicator pg. 14
(6) Exposure Level Indicator 🖙 pg. 13
① White Balance Mode Indicator 🖙 pg. 19
⁽¹⁸⁾ Menu Setting Change Indicator □ pg. 20
19 Index Code Marking IF pg. 33
② 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
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 🖙 pg. 10 Appears when the end of the tape is reached during playback, recording or fast-forward.

General Battery Precautions

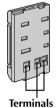
- When the C-P6U or C-P7U (cassette adapter) is not functioning even when correctly operated, the batteries are exhausted. Replace them with fresh ones.

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

- **1.** Refer to the 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.
- Remove 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 supplied battery pack is a nickelcadmium 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 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
- 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 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
- 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.

For Your Maintenance

1. After Use

- (1) Set the power switch to POWER OFF to turn off the camcorder.
- ② Slide EJECT to open the cassette holder, then remove the cassette.
- ③ Close and lock the cassette holder by pressing PUSH.
- 4 Press BATT. RELEASE to remove the battery pack.
- (5) Slide the LENS COVER open/close switch to close the lens cover.

2. Cleaning The Camcorder

(1) CLEAN EXTERIOR

Wipe gently with a soft cloth.

(2) CLEAN LENS

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

③ REMOVE EYEPIECE

Turn the eyepiece counterclockwise and pull it out.

4) CLEAN VIEWFINDER

Remove dust using a blower brush.

⑤ RE-ATTACH EYEPIECE

Align the marks, 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.
- Mold may form if the lens is left dirty.

GENERAL

· VHS PAL standard Format : DC 6 V == Power source

: 5.3 W Power consumption Signal system : PAL-type

Video recording system

Luminance : FM recording Colour : Converted sub-carrier direct recording

Conforms to VHS standard

Cassette : VHSI cassette Tape speed : 23.39 mm/sec

Recording time

Max : 60 minutes

(with EC-60 cassette)

Operating temperature : 0°C to +40°C Operating humidity Storage temperature Weight

: -20°C to +50°C : Approx. 820 g : 112 (W) x 112 (H) x

232 (D) mm

: 35% to 80%

CAMERA

Dimensions

Pick up : 1/4" format CCD : 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 0.5" B/W CRT

White balance adjustment

: Auto/Manual adjustment

VIDEO

: 1 Vp-p, 75 ohms, Output

unbalanced (via VIDEO out connector)

AUDIO

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

connector)

AC POWER ADAPTER/BATTERY CHARGER (AA-V11EG)

Power requirement : AC 110 to 240 V \sim .

50/60 Hz

Power consumption : 23 W

: DC 8.5 V ==, 1.3 A Output

(CHARGE).

DC 6.3 V ==, 1.8 A (VTR) 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)

Dimensions : 188 (W) x 25 (H) x

104 (D) mm

Weight : Approx. 240 g

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

Provided Accessories pg. 3

Optional Accessories

• Battery Packs BN-V12U, BN-V22U, BN-V25U

• Car Battery Charger BH-V3E

• RF Unit RF-V5E

 Wireless Remote Control Unit RM-V704U or RM-V700U

Compact VHS-C Cassettes EC-60/45/30

Active Carrying Bag CB-V7U

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

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





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