

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 (☞ pg. 52 – 54) and familiarize yourself with button locations, etc. before use.
- read thoroughly the Safety Precautions that follow and cautions (☞ pg. 55, 56). 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.

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.*

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

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

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 LCD monitor/viewfinder playback are 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.)

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



- 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.

- LCD Colour Monitor (☞ pg. 14)
- Program Manager II (☞ pg. 20 – 35)
- Programme AE with Special Effects (☞ pg. 20, 21)
 - Auto Mode Lock • Auto Mode Release
 - Electronic Fog Filter • ND Effect
 - Sepia • Twilight • Sports • Nega/Posi
 - 1/2000 sec. High Speed Shutter
- Picture Stabiliser (☞ pg. 17)
- Digital Hyper Zoom (☞ pg. 16)
- Intergrated Auto Light (☞ pg. 18)

The Logical Choice

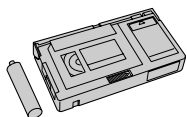
The only compact video cassettes that can be used with your VHS VCR*

**With Cassette Adapter*

PROVIDED ACCESSORIES



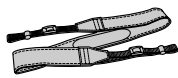
- AC Power Adapter/Charger AA-V15EG



- Cassette Adapter C-P7U



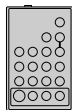
- Battery Pack BN-V12U



- Shoulder Strap



- Lithium Battery CR2025 x 2 (clock operation and remote control unit)



- Remote Control Unit RM-V700U



- DC cord

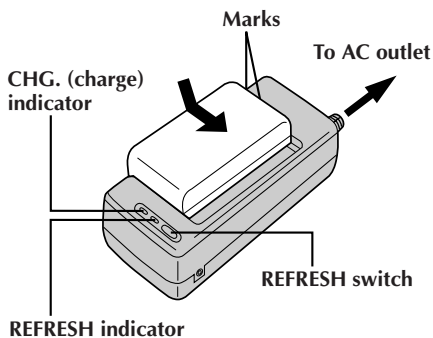


- AUDIO/VIDEO (A/V) cable



- Editing Cable

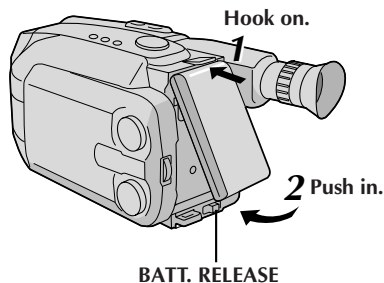
GETTING STARTED	4
Power	4
Clock (Lithium) Battery Insertion/Removal ...	6
Date/Time Setting	7
Tape Length Setting	8
Loading/Unloading A Cassette	9
Grip Adjustment	10
Viewfinder Adjustment	10
Shoulder Strap Attachment	11
Tripod Mounting	11
RECORDING	12
Basic Recording	12
Basic Features	16
Advanced Features	20
PLAYBACK	36
Basic Playback	36
Features	37
Using The Cassette Adapter	39
Basic Connections	40
TAPE DUBBING	41
USING REMOTE CONTROL UNIT	42
Random Assemble Editing	44
Insert Editing	48
Audio Dubbing	49
TROUBLESHOOTING	50
INDEX	52
Controls	52
Connectors	52
Indicators	52
Other Parts	52
LCD monitor/Viewfinder Indications	54
CAUTIONS	55
SPECIFICATIONS	57

**REFRESH**

The AC power adapter features a REFRESH function that allows you to fully discharge the battery pack before recharging. Perform the REFRESH function after no less than 5 chargings.

To discharge the battery . . .

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

**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**

- 1 Connect the charger's AC power cord to a wall outlet.

ATTACH BATTERY PACK

- 2 Align the marks and slide the battery pack in the direction of the arrow until it locks in place.

- The CHG. indicator begins blinking to indicate charging has started.

DETACH BATTERY PACK

- 3 When the CHG. indicator stops blinking but stays lit, charging is finished. 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**

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

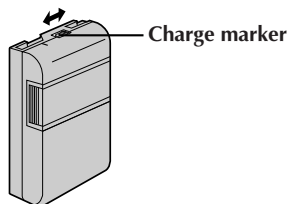
DETACH BATTERY PACK

- 2 Slide **BATT. RELEASE** and pull out the battery pack.

Approximate recording time (unit: min.)

BATT. PACK	LCD monitor on/ Viewfinder off	LCD monitor off/ Viewfinder on	LCD monitor on/ Viewfinder on
BN-V12U	55 (35)	60 (35)	45 (30)
BN-V22U	115 (75)	130 (80)	100 (70)
BN-V25U	155 (105)	170 (110)	135 (95)

() : when the video light is on.

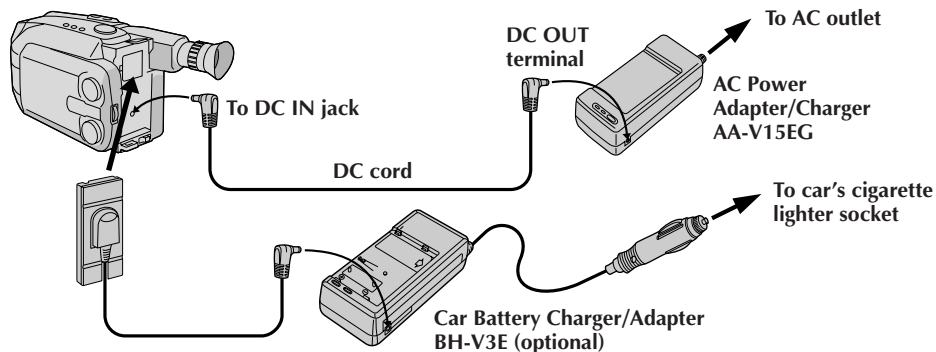


CHARGE MARKER

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.

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 battery 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.
- While the AC Power Adapter/Charger's power cord is disconnected from the AC outlet, it is possible to discharge the battery by pressing the REFRESH switch. During that time, the AC Power Adapter/Charger does not charge the battery. When discharging is complete, detach the battery from the AC Power Adapter/Charger to store it.
- 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.
- 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 blink 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 above).

NOTES:

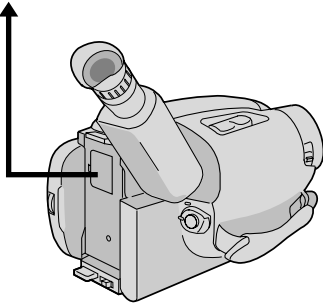
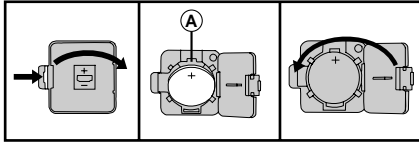
- When using the car battery, leave the engine idling.
- The optional Car Battery Charger (BH-V3E) can also be used to charge the battery pack.
- When using the optional Car Battery Charger, refer to the respective instruction booklet.

USING AC POWER

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

NOTE:

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



Clock (Lithium) Battery Insertion/Removal

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

SWITCH OFF POWER

- 1 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)

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

INSERT BATTERY

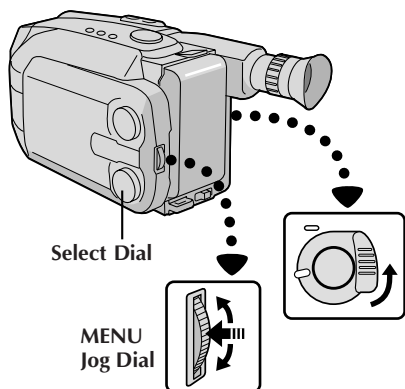
- 4 Ensure that the plus (+) side is up and insert a CR2025 lithium battery and push it in.

CLOSE COVER

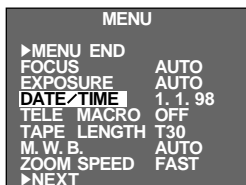
- 5 Close the compartment cover until it clicks in place.

NOTE:

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



LCD monitor or viewfinder

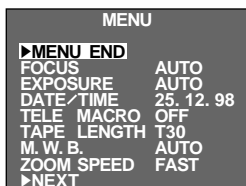


Menu Screen



DATE/TIME Setting Menu

24-hour indication



Date/Time Setting

ACCESS MENU SCREEN

- 1 First set the Power Switch to "CAMERA". Turn the Select Dial to any position except AUTO LOCK, then press the MENU Jog Dial.

SELECT FUNCTION

- 2 Rotate the MENU Jog Dial to move the highlight bar to "DATE/TIME", then press it. The DATE/TIME Setting Menu appears.

- If you decide you want to return the date and time to the previous settings, rotate the MENU Jog Dial to move highlight bar to "EXIT" and press it, then go to step 6.
- If you want to set only the time without changing the date, go to step 4.

SET DATE

- 3 Rotate the MENU Jog Dial to move the highlight bar to the item you want to set and then press it. When the setting begins blinking, rotate the MENU Jog Dial until the correct setting appears and then press it. The setting stops blinking.

- Repeat this procedure until you're satisfied with the Date settings ("YEAR", "MONTH" and "DAY").

SET TIME

- 4 Rotate the MENU Jog Dial to move the highlight bar to "TIME" and then press it. When the hour setting begins blinking, rotate the MENU Jog Dial until the correct setting appears and then press it. When the hour setting stops blinking and the minute setting begins blinking, rotate the MENU Jog Dial until the correct setting appears and then press it. The minute setting stops blinking.

START CLOCK OPERATION

- 5 When none of these settings (YEAR, MONTH, DAY, TIME) blinks, rotate the MENU Jog Dial to move the highlight bar to "EXIT", and press it. The Menu Screen appears and "MENU END" is highlighted.

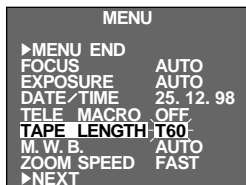
CLOSE MENU

- 6 Press the MENU Jog Dial.

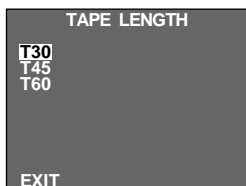
NOTE:

To display the date and time in the LCD monitor or the viewfinder and on a connected TV, see "Date/Time/Character Insert" (pg. 19).

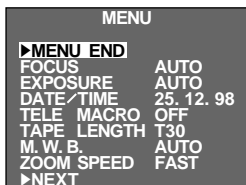
LCD monitor or Viewfinder



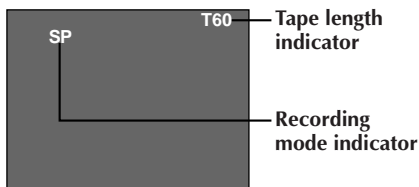
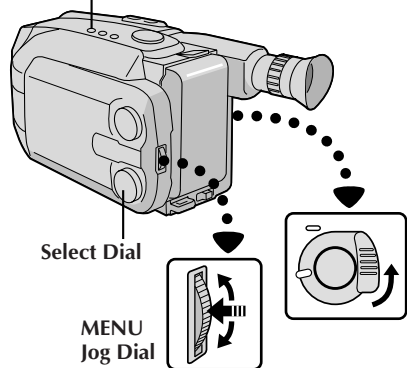
Menu Screen



TAPE LENGTH Setting Menu



SP/LP Recording Mode Button



Tape Length Setting

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

ACCESS MENU SCREEN

- 1 First set the Power Switch to "CAMERA". Turn the Select Dial to any position except AUTO LOCK, then press the MENU Jog Dial.

SELECT FUNCTION

- 2 Rotate the MENU Jog Dial to move the highlight bar to "TAPE LENGTH", then press it. The TAPE LENGTH Setting Menu appears.

SET TAPE LENGTH

- 3 Rotate the MENU Jog Dial to move the highlight bar to the correct setting. T30=30 minutes of recording time, T45=45 minutes, and T60=60 minutes (in SP).

- If you decide you want to return the tape length to the previous setting, rotate the MENU Jog Dial to move the highlight bar to "EXIT".

CLOSE MENU

- 4 Press the MENU Jog Dial. The Menu Screen reappears and the highlight bar is on "MENU END". Then press the MENU Jog Dial again to close the Menu Screen.

NOTES:

- The tape remaining time (pg. 13) is correct only if the correct tape length has been selected.
- Once you have set the tape length, it remains unchanged even if the Select Dial is returned to AUTO LOCK.

Recording Mode Setting

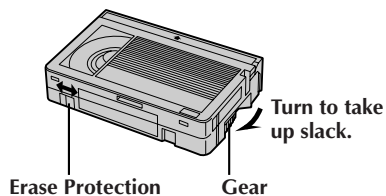
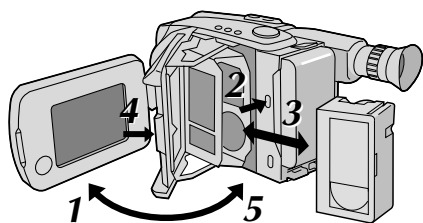
Set depending on your preference.

SET RECORDING MODE

- 1 First set the Power Switch to "CAMERA". Press SP/LP Button for more than 1 second. "SP" (Standard Play) provides higher picture and sound quality and is better for dubbing, while "LP" (Long Play) is more economical, providing two times as the recording time.

NOTE:

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

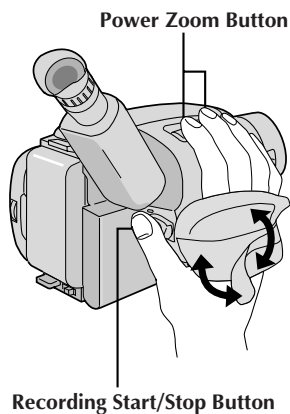


Loading/Unloading A Cassette

- 1** **OPEN LCD MONITOR**
Open the LCD monitor to an angle of over 45 degrees.
- 2** **OPEN CASSETTE HOLDER**
Press **EJECT** until the holder opens. Do not use force to open.
- 3** **INSERT/REMOVE CASSETTE**
Make sure the label is facing outward.
- 4** **CLOSE CASSETTE HOLDER**
Press **PUSH** and make sure the holder is closed and locked.
- 5** **CLOSE LCD MONITOR**
First make sure the holder is closed. Then close the LCD monitor.

NOTES:

- Closing the LCD monitor while the cassette holder is still open may cause damage to the LCD monitor.
- 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

EXPAND LOOP

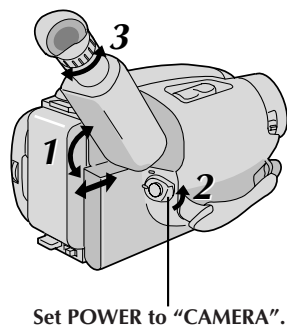
- 1 Separate the Velcro strip.

INSERT HAND

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

ADJUST STRAP LENGTH

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



Set POWER to "CAMERA".

Viewfinder Adjustment

POSITION VIEWFINDER

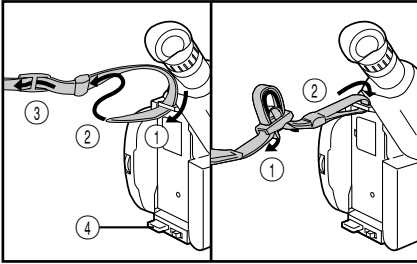
- 1 Adjust the viewfinder manually for best viewability (see illustration to the left).

SELECT MODE

- 2 Set the Power Switch to CAMERA.

ADJUST DIOPTR

- 3 Turn the dioptre Adjustment Control until the indications in the viewfinder are clearly focused.



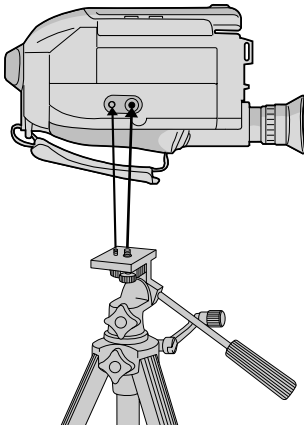
Shoulder Strap Attachment

ATTACH STRAP

- 1 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 ④, making sure the strap isn't twisted.

ADJUST LENGTH

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



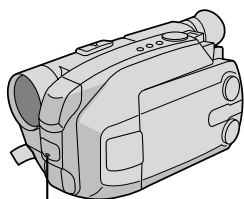
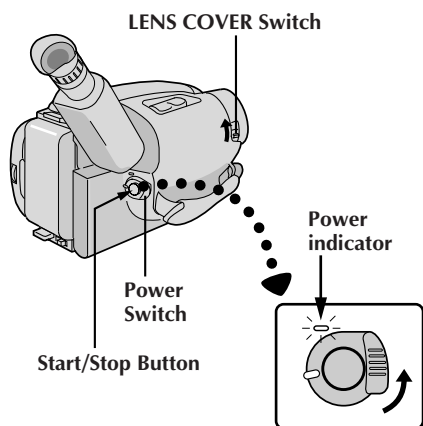
Tripod Mounting

ALIGN AND TIGHTEN

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

CAUTION:

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

**NOTE:**

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

- Power (☞ pg. 4)
- Tape Length Setting (☞ pg. 8)
- Grip Adjustment (☞ pg. 10)

LOAD A CASSETTE

- 1** First open the LCD monitor to an angle of over 45 degrees. Press **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.

Shooting while watching the viewfinder**ENTER RECORD-STANDBY MODE**

- 2** Make sure the LCD monitor is closed and locked. Slide the **LENS COVER** Open/Close Switch to open the lens cover, then set the Power Switch to **CAMERA**.

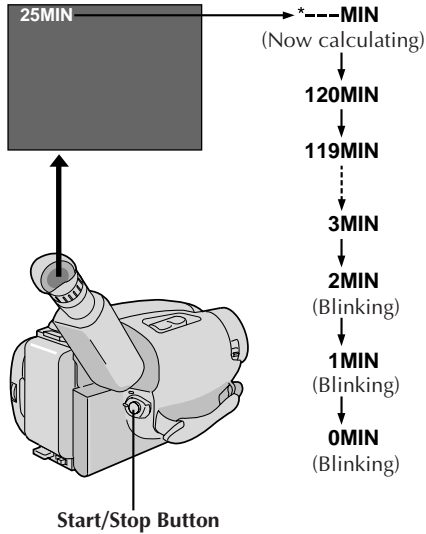
- The power indicator lights and the camcorder enters the Record-Standby mode.
- The scene you're aimed at appears on the viewfinder screen, with the word "PAUSE" superimposed upon it.

START SHOOTING

- 3** Press the Recording Start/Stop Button.

- "REC" appears in the viewfinder while recording is in progress.

Tape remaining time indicator



STOP RECORDING

4 Press the Recording Start/Stop Button again to stop recording.

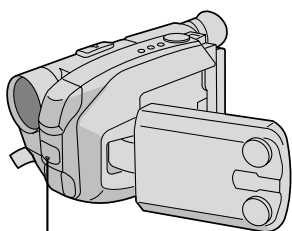
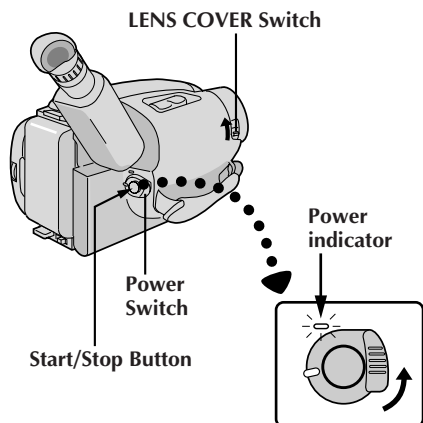
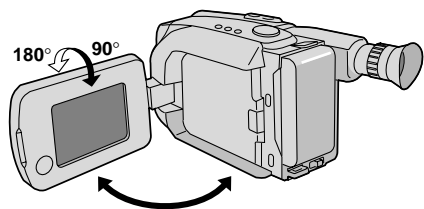
- The camcorder re-enters the Record-Standby mode.

NOTES:

- When the Power Switch is set to CAMERA and the LCD monitor is opened at an angle of 45 degrees or more, the LCD monitor switches on and the viewfinder switches off automatically to save power.
- A cassette holder can't be opened unless a power supply is attached.
- There may be a delay after you press EJECT until the holder opens. Do not use force.
- The tape remaining time is only displayed in the viewfinder as shown.
- The remaining time indicated in the viewfinder 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 indicator is correct only if the correct tape length has been selected (☞ pg. 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 (such as when a tape is removed and re-inserted during recording), use the Retake function (☞ pg. 17) to find the end of the last recording so you don't erase any of it.
- The LENS COVER warning blinks for about 5 seconds when the camcorder is turned on when the cover is closed.
- While shooting, sound is not heard from the speaker.

Shooting while watching the LCD monitor

Before the following steps, perform step 1 (☞ pg. 12).



Tally lamp
(lights while recording
is in progress)

2 ENTER RECORD-STANDBY MODE

Make sure the LCD monitor is fully open. 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 in the LCD monitor, with the word "PAUSE" superimposed upon it.

3 START SHOOTING

Tilt the LCD monitor upward/downward for best viewability (☞ pg. 15) and press the Recording Start/Stop button.

- "REC" appears in the LCD monitor while recording is in progress.

4 STOP RECORDING

Press the Recording Start/Stop Button again to stop recording.

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

NOTES:

- When you use the LCD monitor outdoors in direct sunlight, the LCD monitor may be difficult to see. If this happens, we recommend that you use the viewfinder (☞ pg. 12).
- The tape remaining time is not displayed on the LCD monitor. However, when the tape is about to reach its end, the following indicators appear: "2MIN" → "1MIN" → "0MIN".
- For other notes, refer to pg. 13.



Journalistic shooting

In some situations different angles of shooting may be required for more dramatic results.

1 OPEN LCD MONITOR
Make sure the LCD monitor is fully open.

2 TILT LCD MONITOR
Tilt the LCD monitor in the most convenient direction.

- The LCD monitor can rotate almost full circle (270°: 90° downward, 180° upward).

Interface shooting

A person you shoot can view himself/herself in the LCD monitor, and you can even shoot yourself while viewing your own image in the LCD monitor.



Self-recording

1 TILT LCD MONITOR UPWARD
Open the LCD monitor and tilt it upward to 180 degrees so that it faces forward.

- When the LCD monitor is tilted upward to an angle of over approx. 105 degrees, the monitor image is inverted vertically, and the viewfinder also switches on.

2 START RECORDING
Point the lens toward the subject (yourself when self-recording) and start recording.

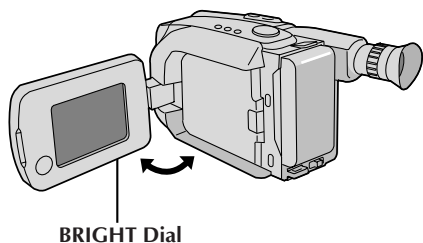
- During Interface Shooting, the monitor image and indications do not appear inverted as they would when viewing a mirror.

NOTE:

During Interface Shooting, indications other than the Date/Time display and Title display do not appear in the viewfinder.

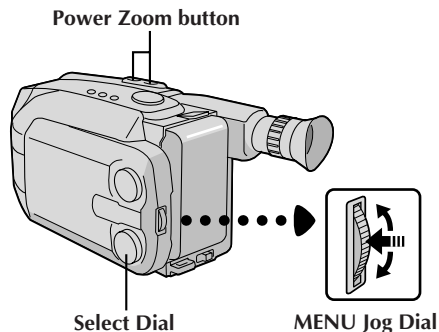
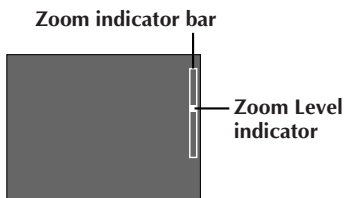
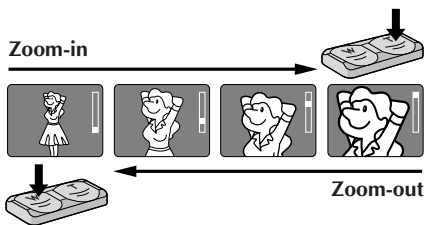
Brightness control

You can adjust the brightness of the LCD monitor by turning the **BRIGHT** Dial.

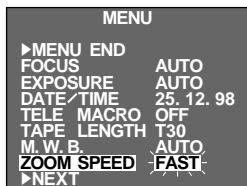


BRIGHT Dial

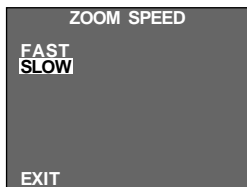
1 ADJUST BRIGHTNESS
If you want to brighten the image . . .
Turn the Dial towards "+".
If you want to darken the image . . .
Turn the Dial towards "-".



LCD monitor or viewfinder



Menu Screen



ZOOM SPEED Setting Menu

FEATURE:
PURPOSE:

OPERATION:

Zooming

To produce the zoom in/out effect, or an instantaneous change in image magnification.

Digital circuitry doubles the maximum 22x magnification offered by optical zoom. This system is called Digital Zoom.

Zoom In

Press the "T" of the Power Zoom Button.

Zoom Out

Press "W" of the Power Zoom Button.

■ Zooming speed is available. A total of 4 zoom speeds are available. 2 speeds can be selected depending on how hard the Power Zoom Button is pressed (press the button fully for regular-speed, press it lightly for slow-speed), while 2 speed levels (FAST/SLOW) can be selected in the ZOOM SPEED Menu depending on the overall speed you prefer.

The combinations of zoom speeds are shown in the chart below.

Changing the ZOOM SPEED in the Menu

- 1) Set the Select Dial to any position except AUTO LOCK and press the MENU Jog Dial. The Menu Screen appears.
- 2) Rotate the MENU Jog Dial to move the highlight bar to "ZOOM SPEED", then press it. The ZOOM SPEED Setting Menu appears.
- 3) Rotate the MENU Jog Dial to move the highlight bar to the desired speed and press it twice. The Menu Screen disappears and setting is completed.

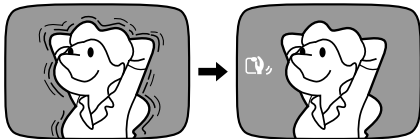
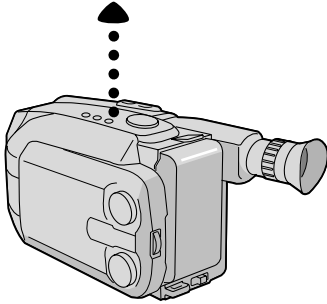
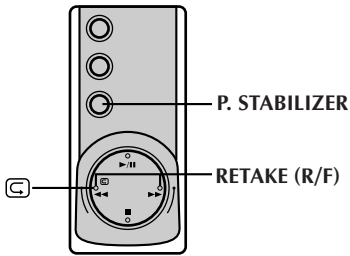
NOTES:

- Focusing may become unstable during Zooming. In this case, set the zoom while in Record-Standby, lock the focus by using the manual focus (☞ pg. 31), then zoom in or out in Record mode.
- The zoom level indicator (■) moves during zoom. Once the zoom level indicator reaches the top of the zoom indicator bar, all magnification from that point is through digital processing.
- During Digital Zoom, the quality of image may suffer. To deactivate Digital Zoom, set "D.ZOOM" to "OFF" in the Menu Screen (☞ pg. 28).

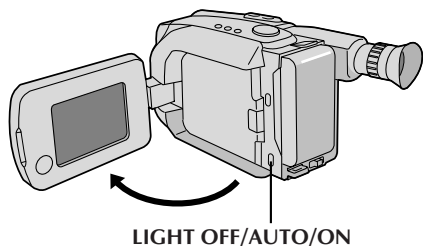
Zooming Speed (1 – 4 in order of speed)

"ZOOM SPEED" in the Menu Screen	Pressing the Power Zoom Button	
	fully	lightly
FAST	1 (fastest)	3
SLOW	2	4 (slowest)

☐ : when the Select Dial is set to AUTO LOCK.



<p>FEATURE:</p> <p>PURPOSE:</p> <p>OPERATION:</p> <p>NOTE:</p>	<p>Quick Review</p> <p>To check the end of the last recording.</p> <p>1) Press "G" and release quickly during the Record-Standby mode.</p> <ul style="list-style-type: none"> ■ Tape is rewound for about 2 seconds and played back automatically, then pauses in Record-Standby mode for the next shot. <p><i>Distortion may occur at start of playback. This is normal.</i></p>
<p>FEATURE:</p> <p>PURPOSE:</p> <p>OPERATION:</p> <p>NOTE:</p>	<p>Retake</p> <p>To re-record certain segments.</p> <p>1) Make sure the camcorder is in the Record-Standby mode.</p> <p>2) Press either RETAKE button to reach the start point for new recording. Pressing "F" forwards the tape and pressing "R" reverses it.</p> <p>3) Press Recording Start/Stop Button to start recording.</p> <p><i>Noise may appear during Retake. This is normal.</i></p>
<p>FEATURE:</p> <p>PURPOSE:</p> <p>OPERATION:</p> <p>NOTES:</p>	<p>Picture Stabiliser</p> <p>To compensate for unstable images caused by camera-shake, particularly at high magnification.</p> <p>1) Press P. STABILIZER. "P.S." appears.</p> <ul style="list-style-type: none"> ■ To switch off the Picture Stabiliser, press P. STABILIZER. The indicator disappears. <ul style="list-style-type: none"> ● <i>Accurate stabilisation may not be possible if hand shake is excessive, or under the following conditions:</i> <ul style="list-style-type: none"> • When shooting subjects with vertical or horizontal stripes. • When shooting dark or dim subjects. • When shooting subjects with excessive backlighting. • When shooting scenes with movement in various directions. • When shooting scenes with low-contrast backgrounds. ● Switch off the Picture Stabiliser when recording with the camcorder on a tripod.



DANGER

- The video light can 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 for some time.
- 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.

FEATURE:

PURPOSE:

OPERATION:

NOTES:

Video Light

To brighten the scene when natural lighting is too dim.

1) Set the **LIGHT OFF/AUTO/ON**

Switch 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 only be used with the camcorder's power on.

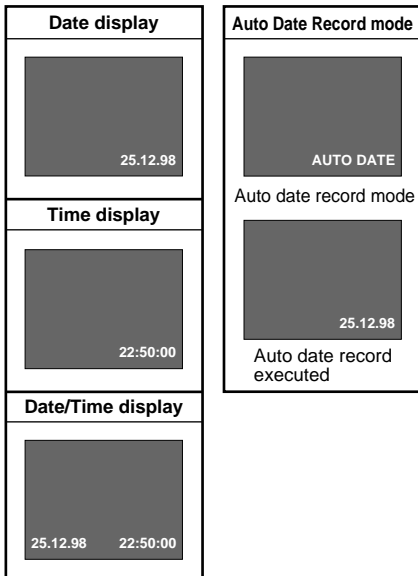
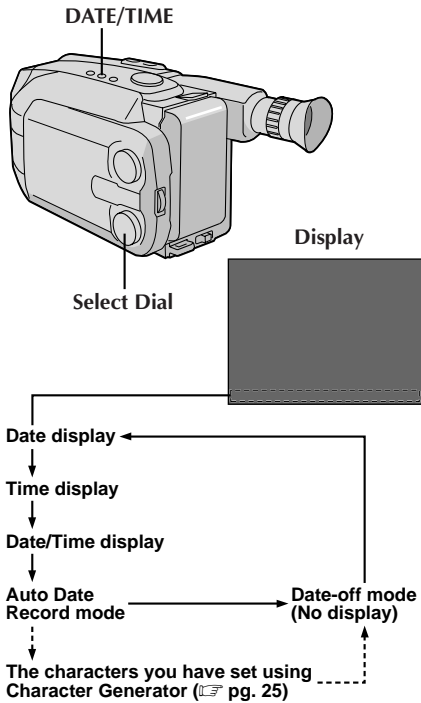
■ It is recommended to set the white balance (☞ pg. 32) to HALOGEN mode (☞) when you use the video light.

■ When not using the video light, turn it off to save battery power.

● *Even if the battery indicator (☐) does not blink if the battery pack's charge is low, the camcorder may turn off automatically when you turn on the video light, or when you start recording with the video light turned on.*

● *When the **LIGHT OFF/AUTO/ON** 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 OFF/AUTO/ON** switch.*
- *While the Sports or High-Speed Shutter mode (☞ pg. 21) is engaged, the light is likely to stay on.*
- *While the Twilight mode (☞ pg. 21) is engaged, the light will not activate.*



FEATURE:
PURPOSE:

OPERATION:

NOTES:

Date/Time/Character Insert

To display the date and time on the LCD monitor, in the viewfinder, or on a connected colour monitor, as well as to record them manually or automatically.

- 1)** Turn the Select Dial to any position except AUTO LOCK.
- 2)** Choose a display mode by pressing **DATE/TIME** repeatedly while in Record-Standby to cycle through the modes as shown in the illustration to the left.
- You should have already performed the Date/Time Setting procedure (pg. 7). If you haven't, do so first.

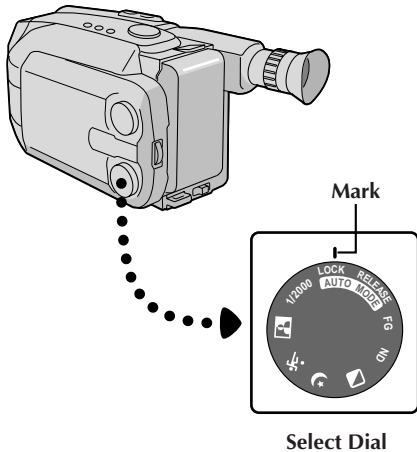
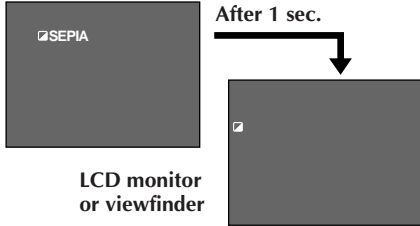
DISPLAY

- The selected display can be recorded.
- If you don't want to record the display, select the Date-off mode before shooting.
- If you want to delete the display during shooting, press **DATE/TIME**.
- To recall the display, engage the Record-Standby mode and press **DATE/TIME** repeatedly until the desired display appears.

AUTO DATE RECORD

- Your camcorder automatically records the date for about 5 seconds after recording is initiated in the following situations:
 - After changing the date.
 - After loading a cassette.
 - After Auto Date Record mode is selected by pressing **DATE/TIME**.
 In this mode, the date is replaced after 5 seconds with "AUTO DATE" but this is not recorded.
- Setting the Select Dial to AUTO LOCK always engages the Auto Date Record mode, and disables all other modes.

1 second later, the mode is activated.



Programme AE With Special Effects

All you have to do to access any of the variety of shooting effects is to turn the Select Dial.

SELECT MODE

1 Turn the 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 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 Fade/Wipe (☞ pg. 22) is used in the Sepia mode.
- The screen becomes slightly dark in the High Speed Shutter mode. Use in well-lit situations.
- In the High Speed Shutter or Sports modes, picture colour may be adversely affected if subject is lit by alternating discharge-type light sources such as fluorescent or mercury-vapour lights.

Dial symbol	LCD monitor/ 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; DATE/TIME display select, and the Menu Jog Dial.

RELEASE	AUTO RELEASE	Auto Mode Release
---------	--------------	-------------------

Auto Mode Release

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

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 “fantasy” 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 (pg. 23) for the authentic look of a classic Hollywood movie.

Dial symbol	LCD monitor/ Viewfinder indication	Mode
-------------	---------------------------------------	------

	TWILIGHT	Twilight
---	----------	----------

Twilight

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

- Auto gain control is turned off.
- White Balance is set to “☀️” (FINE day mode), but can also be manually changed to another mode (pg. 33).
- Auto Focus becomes available only in the range of 10 m to infinity. To focus when the subject-to-camera distance is less than 10 m, use manual focusing (pg. 31).

	SPORTS	Sports
---	--------	--------

Sports

High shutter speed clearly captures fast-moving action.

	NEGA POSI	Nega/Posi
---	-----------	-----------

Nega/Posi (Negative/Positive)

The colours of a picture are reversed.



NEGA POSI mode

1/2000	 2 S 1/2000	1/2000 sec. High Speed Shutter
--------	--	-----------------------------------

High-Speed Shutter (1/2000s.)

Captures faster action than Sports mode.

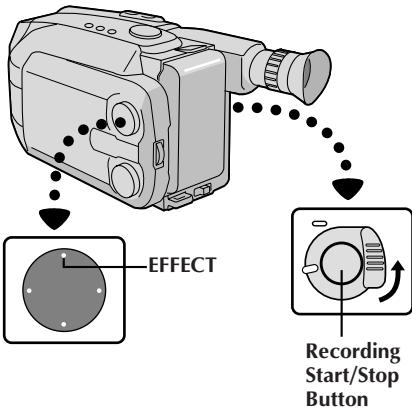
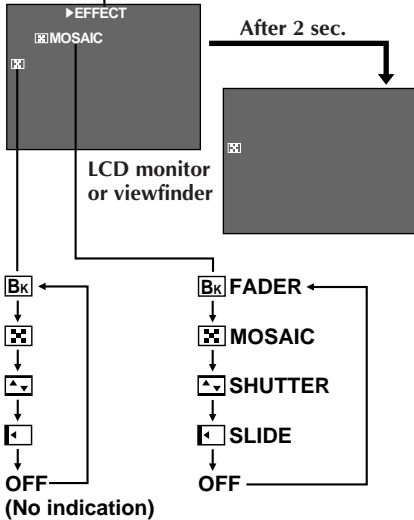
[Ex. : Fader]

Fade-in



Fade-out

Function indication



Fade/Wipe

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

ENGAGE FADE- OR WIPE-STANDBY MODE

1 Press **EFFECT** to cycle through the modes as shown to the left. Once the desired mode appears, it is selected and reserved.

- The selected mode's name and its indication are displayed for approx. 2 seconds. Then the name disappears, and only the indication remains.

START OR END RECORDING

2 Press Recording Start/Stop Button to activate fade-in/out or wipe-in/out.

TO CANCEL FADE- OR WIPE-STANDBY MODE

3 Press **EFFECT** repeatedly until "OFF" appears.

- "OFF" is displayed for approx. 2 seconds and the fade/wipe-standby mode is cancelled.

[Bk] FADER

Fades in/out to a black screen.

[MOSAIC] MOSAIC (Fader)

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

[SHUTTER] SHUTTER (Wipe)

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

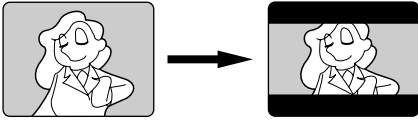
[SLIDE] SLIDE (Wipe)

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

NOTES:

- Pressing and holding the Recording Start/Stop Button allows you to record a black blank screen or a mosaic pattern if Mosaic Fader is selected.
- The screen becomes slightly reddish when the Fade/Wipe is used with Sepia (pg. 21).
- With the Electronic fog filter mode (pg. 21) engaged, when Fader (not Mosaic) is used, the image fades in/out to a white screen.

LCD monitor or viewfinder



Wide mode

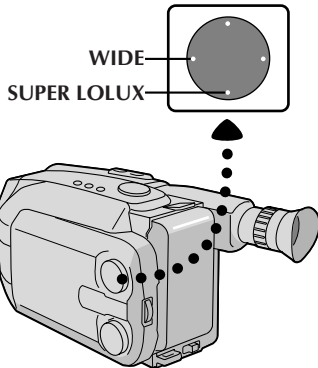
Wide

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

1 ENGAGE WIDE MODE

Press **WIDE**.

- To restore normal screen, press **WIDE** again.



Super LoLux(Gain Up)

Bright, natural recordings can be taken even in areas with low or poor lighting.

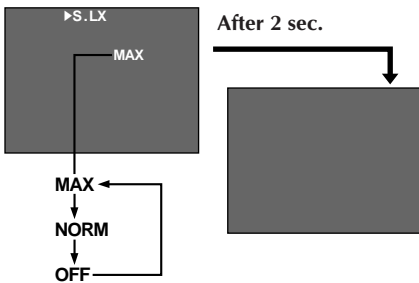
1 SELECT SUPER LOLUX MODE

Press **SUPER LOLUX** repeatedly to cycle through the modes as shown to the left. Once the desired mode appears, it is engaged.

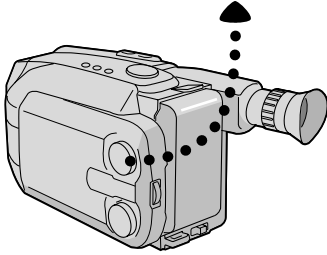
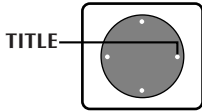
- The mode's name is displayed for approx. 2 seconds, then disappears.

- MAX** : 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.
- 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.

LCD monitor or viewfinder

**NOTE (for Fade/Wipe, Wide, Super LoLux, Instant Titles and Picture Stabiliser) :**

When the Select Dial is turned to **AUTO LOCK**, the above functions will be set to the Factory settings (Fade/Wipe-standby : “OFF”, Wide mode : off, Super LoLux : “MAX”, Instant Title : off, Picture Stabiliser : off). Then when the Select Dial is returned to any position except **AUTO LOCK**, the above functions return to the settings you selected before turning it to **AUTO LOCK**. However, if the function is switched during **AUTO LOCK**, the selected mode will be set and will remain unchanged even when the Select Dial is turned to any position except **AUTO LOCK**.



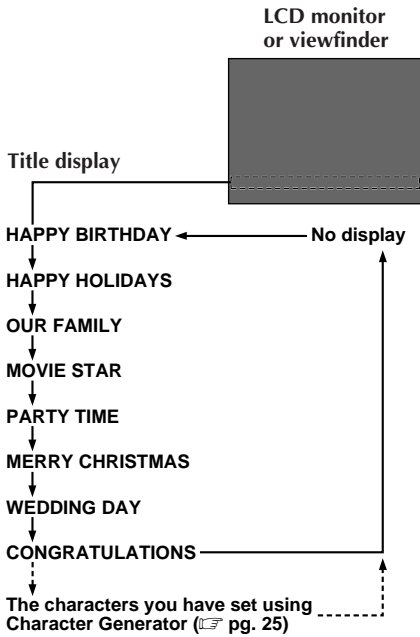
Instant Titles

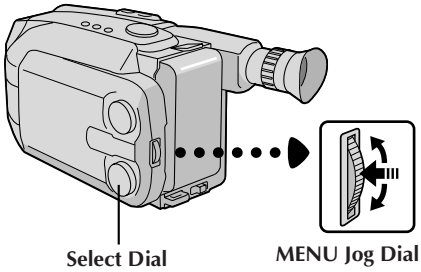
The camcorder has eight preset titles in memory. You can superimpose one of them above a previously stored title as shown in the illustration to the left.

1

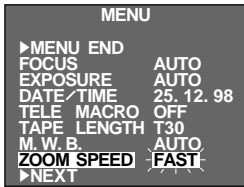
SELECT PRESET TITLE

Press **TITLE** repeatedly to cycle through the preset titles until the desired title is displayed.

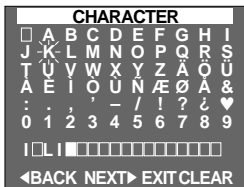
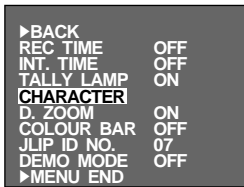




LCD monitor or viewfinder



Menu Screen



Character Generator

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

1 ACCESS MENU SCREEN

Turn the Select Dial to any position except AUTO LOCK, then press the MENU Jog Dial. The Menu Screen appears.

2 ACCESS CHARACTER MENU

Rotate the MENU Jog Dial to move the highlight bar to "CHARACTER", then press it.

3 INPUT CHARACTERS

Rotate the MENU Jog Dial to make the desired character blink, then press it. The selected character appears at the bottom of the screen. Repeat for additional characters (max. 18).

- To select the location of the next character, rotate the MENU Jog Dial to make "◀BACK" or "NEXT▶" at the bottom of the screen blink, then press it repeatedly to move the blinking cursor underneath the desired location. Rotate the MENU Jog Dial when you are done, and the blinking cursor returns to the character grid.

4 END CHARACTER SETTING

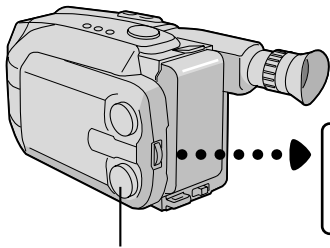
Rotate the MENU jog dial to make "EXIT" blink, then press it. The Menu Screen reappears and the highlight bar is placed on "MENU END".

5 CLOSE MENU

Press the MENU Jog Dial.

NOTES:

- To erase a character you entered mistakenly, make "CLEAR" blink by rotating the MENU Jog Dial, then press it. All characters are deleted at once. Or, to erase selected characters only, first move the blinking cursor to the characters at the bottom row which you want to replace, then rotate the MENU Jog Dial to highlight "□" in the top left corner, and then press it.
- To display the characters you have set — "Date/Time/Character Insert" (☞ pg. 19) or "Instant Titles" (☞ pg. 24).
- Characters may be set only in the Record-Standby mode.



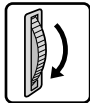
Select Dial

MENU Jog Dial

LCD monitor or viewfinder

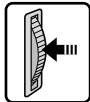
MENU	
▶MENU END	AUTO
FOCUS	AUTO
EXPOSURE	AUTO
DATE/TIME	25. 12. 98
TELE MACRO	OFF
TAPE LENGTH	T30
M. W. B.	AUTO
ZOOM SPEED	FAST
▶NEXT	

Menu Screen 1



▶BACK	
REC TIME	OFF
INT. TIME	OFF
TALLY LAMP	ON
CHARACTER	
D. ZOOM	ON
COLOUR BAR	OFF
JLIP ID NO.	07
DEMO MODE	OFF
▶MENU END	

Menu Screen 2



REC TIME	
OFF	
1/4 S	
1/2 S	
1 S	
5 S	
EXIT	

Setting Menu
(ex. REC TIME)

▶BACK	
REC TIME	1S
INT. TIME	OFF
TALLY LAMP	ON
CHARACTER	
D. ZOOM	ON
COLOUR BAR	OFF
JLIP ID NO.	07
DEMO MODE	OFF
▶MENU END	

Normal Screen



Using Menu For Detailed Adjustment

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

ACCESS MENU SCREEN

- 1 Turn the Select Dial to any position except AUTO LOCK, then press the MENU Jog Dial. The Menu Screen appears.

SELECT FUNCTION

- 2 Rotate the MENU Jog Dial to place the highlight bar on the desired function.

- When the highlight bar reaches the bottom of Menu Screen 1, Menu Screen 2 is automatically displayed. When the highlight bar reaches the top of Menu Screen 2, Menu Screen 1 is automatically displayed.
- If the setting you want can't be found in the Menu Screen, place the highlight bar on "MENU END", then go to step 5.

MAKE SETTING

- 3 Press the MENU Jog Dial. The setting menu of the selected function appears. The setting procedure depends on the function you select.

If you select "FOCUS", "EXPOSURE", "DATE/TIME" or "CHARACTER" . . .

... see respective pages (FOCUS: [pg. 30, 31](#), EXPOSURE: [pg. 29](#), DATE/TIME: [pg. 7](#), CHARACTER: [pg. 25](#)).

If you select "JLIP ID NO." . . .

... press the MENU Jog Dial so that the number blinks, then rotate it until the desired number appears, and press it. Then rotate the MENU Jog Dial to move the highlight bar to "EXIT".

If you select any other functions . . .

... rotate the MENU Jog Dial to move the highlight bar to the desired setting.

- If you decide you want to return to the previous setting, rotate the MENU Jog Dial to move the highlight bar to "EXIT".

END SETTING

- 4 Press the MENU Jog Dial. The Menu Screen reappears and the highlight bar is on "MENU END".

CLOSE MENU

- 5 Press the MENU Jog Dial. The normal screen reappears.

NOTE:

The menu function except "FOCUS" and "EXPOSURE" are not available while in the Record mode.

Menu Screen Explanations

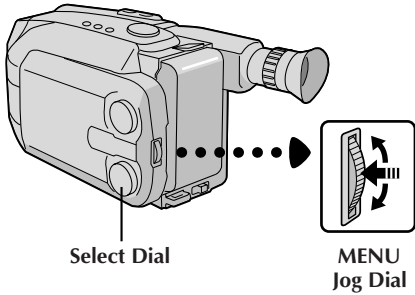
FOCUS	AUTO	Adjusts focus automatically.
	MANU	Allows you to adjust focus manually (☞ pg. 30, 31).
EXPOSURE	AUTO	Adjusts exposure automatically.
	MANU	Allows you to adjust exposure manually (☞ pg. 29).
DATE/TIME	Allows you to set the current date and time (☞ pg. 7).	
TELE MACRO	OFF	Usually the distance to a subject where the lens is in focus depends on the zoom magnification. Unless there is a distance more than 1 m 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.
	ON	
TAPE LENGTH	Allows you to set the tape length depending on the tape used (☞ pg. 8).	
M.W.B.	AUTO	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 (☞ pg. 32).
	☀ : FINE	
	☁ : CLOUD	
	☀ : HALOGEN	
	MWB	
ZOOM SPEED	FAST	Allows you to set the zooming speed (☞ pg. 16).
	SLOW	

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

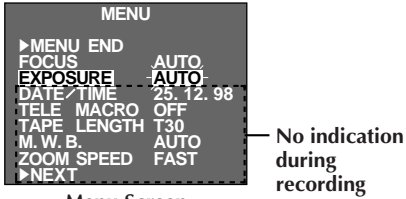
Menu Screen Explanations (cont.)

REC TIME	This feature allows you to set the parameters for Animation and Time-Lapse recording (☞ pg. 35).	
INT. TIME	This feature allows you to set the parameters for Self-Timer (☞ pg. 34) and Time-Lapse recording (☞ pg. 35).	
TALLY LAMP	ON	The tally lamp comes on to signal the start of recording.
	OFF	The tally lamp remains off at all times.
CHARACTER	Allows you to enter an original title of up to 18 characters (☞ pg. 25).	
D. ZOOM	ON	Allows you to use the Digital Zoom. By digitally processing and magnifying images, zooming is possible from 22 times (the optical zoom limit), to a maximum of 44 times digital magnification.
	OFF	Digital Zoom is not available. Only optical zoom (maximum 22x magnification) can function. When set to "OFF" during Digital Zoom, zoom magnification changes to 22x.
COLOUR BAR	OFF	Does not display colour bars. Normal screen is recorded.
	ON	Makes the normal screen disappear, then displays colour bars. By recording colour bars at the beginning or end of a tape, an effect similar to professional productions can be given to your tape. NOTE: While the colour bars are displayed, the camcorder's other functions are disabled.
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.	
DEMO MODE	OFF	Automatic demonstration will not take place.
	ON	Demonstrates certain functions such as Fade/Wipe, Instant Titles etc. When "DEMO MODE" is set to "ON" and the Menu Screen is closed, demonstration starts. NOTES: <ul style="list-style-type: none"> ● When a tape whose Erase Protection tab is in the position that allows recording is loaded in the camcorder, demonstration is not available. ● By turning off the camcorder or inserting a tape whose Erase Protection tab is in the position that allows recording into it, "DEMO MODE" is set to "OFF" automatically. ● During demonstration, all functions except zoom are disabled.

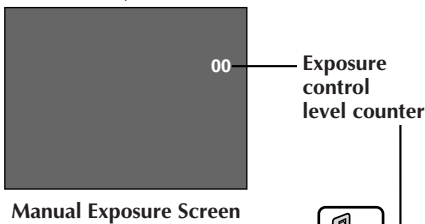
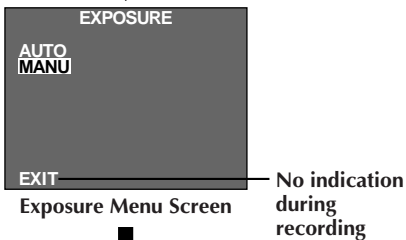
 = Factory setting and when the Select Dial is set to AUTO LOCK



LCD monitor or viewfinder



Menu Screen



To brighten the image



To darken the image

Exposure Control

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

- 1 **ACCESS MENU SCREEN**
Turn the Select Dial to any position except AUTO LOCK, then press the MENU Jog Dial. The Menu Screen appears.
- 2 **ACCESS EXPOSURE MENU SCREEN**
Rotate the MENU Jog Dial to move the highlight bar to "EXPOSURE" and press it.
- 3 **ACCESS MANUAL EXPOSURE**
Rotate the MENU Jog Dial to move the highlight bar to "MANU", then press it. "00" (exposure control level counter) appears.
- 4 **ADJUST EXPOSURE**
To brighten the image . . .
Rotate the MENU Jog Dial upward. The exposure control level counter increases (maximum +06). Go to step 5.
To darken the image . . .
Rotate the MENU Jog Dial downward. The exposure control level counter decreases (maximum -06). Go to step 5.
- 5 **END ADJUSTMENT OF EXPOSURE**
Press the MENU Jog Dial. The Menu Screen reappears and the highlight bar is placed on "MENU END".
- 6 **CLOSE MENU**
Press the MENU Jog Dial. The Menu Screen disappears and the exposure control level counter reappears to indicate the exposure is adjusted.

NOTES:

- To return to the factory setting, select "AUTO" in step 3.
- To re-adjust exposure, repeat the procedure from step 1.



Focus
detection zone

Focusing

Auto Focus

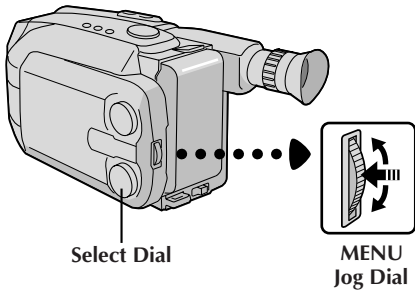
The camcorder's Full Range AF system offers continuous shooting ability from close-up to infinity. However, correct focus may not be obtainable in the situations listed below (in these cases use manual focusing):

- 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.

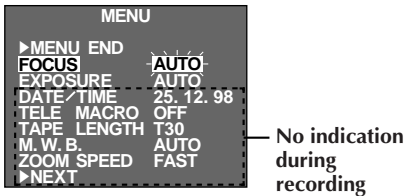
* The low-contrast warning “▲▲” appears.

NOTES:

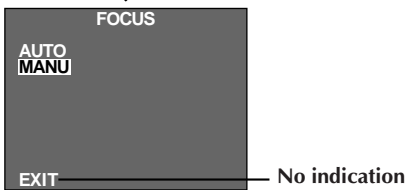
- If the lens is smeared or blurred, accurate focusing is not possible. Keep the lens clean, wiping with a piece of soft cloth if it gets dirty. When condensation occurs, wipe with a soft cloth or wait for it to dry naturally.
- When shooting a subject close to the lens, zoom-out first (☞ pg. 16). If 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. 27) is activated, the camcorder will not zoom out automatically.



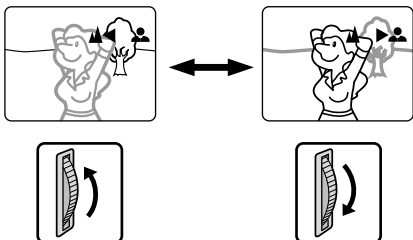
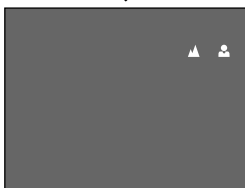
LCD monitor or viewfinder



Menu Screen



Focus Menu Screen



Manual Focus

NOTE:

You should already have made the necessary viewfinder adjustments (☞ pg. 10). If you haven't, do so before continuing.

1 ACCESS MENU SCREEN

Turn the Select Dial to any position except AUTO LOCK, then press the MENU Jog Dial. The Menu Screen appears, and the highlight bar is placed on "FOCUS".

2 ACCESS FOCUS MENU SCREEN

Press the MENU Jog Dial.

3 ACCESS MANUAL FOCUS

Rotate the MENU Jog Dial to move the highlight bar to "MANU", then press it. "▲" and "●" appear. The focus is locked at this point.

4 ADJUST FOCUS

To farther subject . . .

Rotate the MENU Jog Dial upward. "◀" appears and blinks.

Go to step 5.

To nearer subject . . .

Rotate the MENU Jog Dial downward. "▶" appears and blinks.

Go to step 5.

5 END ADJUSTMENT OF FOCUS

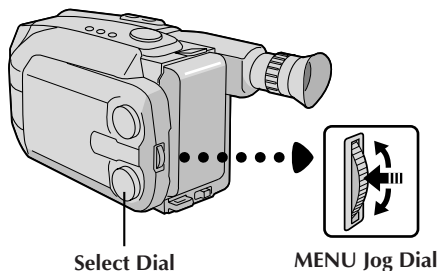
Press the MENU Jog Dial. The Menu Screen reappears and the highlight bar is placed on "MENU END".

6 CLOSE MENU

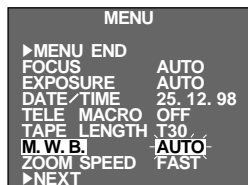
Press the MENU Jog Dial. The Menu Screen disappears and "▲●" reappears to indicate the focus is locked.

NOTES:

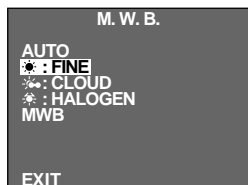
- To return to Auto Focus, select "AUTO" in step 3.
- To re-adjust Manual Focus, repeat the procedure from step 1.
- Be sure to focus the lens in the maximum telephoto position when you use the Manual Focus mode. If you focus in on a certain subject in the wide-angle position, sharply focused images 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.



LCD monitor or viewfinder



Menu Screen



M.W.B. Menu Screen

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

The white balance is usually adjusted automatically. However, the more advanced camcorder operator would prefer to control this function manually and achieve a more professional colour/tint reproduction.

1 ACCESS MENU SCREEN

Turn the Select Dial to any position except AUTO LOCK, then press the MENU Jog Dial. The Menu Screen appears.

2 ACCESS WHITE BALANCE MENU SCREEN

Rotate the MENU Jog Dial to move the highlight bar to "M.W.B.", then press it.

3 SELECT WHITE BALANCE

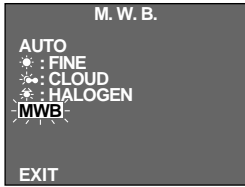
Rotate the MENU Jog Dial to move the highlight bar to the required white balance.

- "AUTO" Automatic adjustment
- "☀" : FINE" Outdoors on sunny day
- "☁" : CLOUD" Outdoors on cloudy day
- "💡" : HALOGEN" ... Light source is halogen or tungsten lamp
- "MWB" When using a personal White Balance Setting stored in memory (☞ pg. 33)

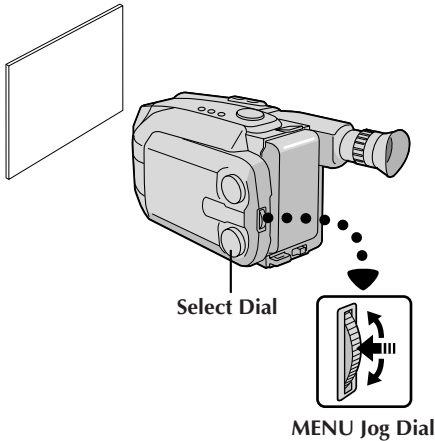
4 CLOSE MENU

Press the MENU Jog Dial. The Menu Screen reappears. Then press the MENU Jog Dial again to exit the Menu Screen.

LCD monitor or viewfinder



M.W.B. Menu Screen



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.

PREPARE WHITE OBJECT

- 1 Point the camcorder at a white, flat object such as a sheet of white paper.

SELECT MWB

- 2 Follow step 1 through 3 on page 32 ("Manual White Balance Adjustment"), select "MWB".

MEMORIZE WHITE BALANCE

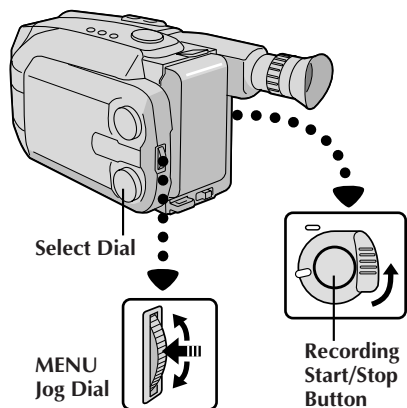
- 3 Press the MENU Jog Dial until "MWB" begins blinking. "MWB" blinks while the white balance is being stored in memory, then the Menu Screen reappears when memorization is complete.

CLOSE MENU

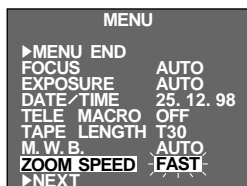
- 4 Press the MENU Jog Dial.

NOTES:

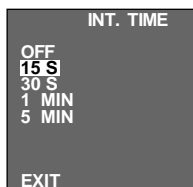
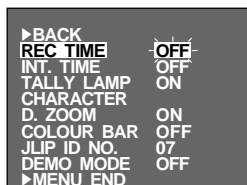
- To switch to automatic white balance adjustment, set the M.W.B. in the Menu Screen to "AUTO", or turn the Select Dial to "AUTO LOCK".
- Re-adjust the White Balance when the lighting has changed, when the camcorder has been turned off and on again, or when the Select Dial's position has been changed.
- When adjusted by putting coloured paper in front of the subject in step 1 of "MWB", 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 approximates to green, orange or purple respectively.



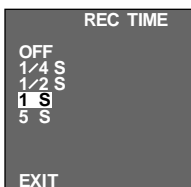
LCD monitor or viewfinder



Menu Screen



INT. TIME Menu



REC TIME Menu



INT. TIME and REC TIME indications on the normal screen

Self-Timer

You can set the delay between pressing the Recording Start/Stop Button 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

- 1 Turn the Select Dial to any position except AUTO LOCK, then press the MENU Jog Dial.

ACCESS INT. TIME MENU SCREEN

- 2 Rotate the MENU Jog Dial to move the highlight bar to "INT. TIME", then press the MENU Jog Dial.

SET INTERVAL TIME

- 3 Rotate the MENU Jog Dial to move the highlight bar to the desired time, then press the MENU Jog Dial. The Menu Screen reappears and the highlight bar is placed on "MENU END".

CLOSE MENU

- 4 Press the MENU Jog Dial.

START DELAYED RECORDING

- 5 Press the Recording Start/Stop Button. When the selected time has elapsed, recording begins automatically.

To Cancel Self-Timer . . .

... Before the recording begins, press the Recording Start/Stop Button to display "≡PAUSE≡", then set "INT. TIME" in the Menu Screen 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.

- 1** ACCESS MENU SCREEN
Turn the Select Dial to any position except AUTO LOCK, then press MENU Jog Dial.
- 2** SET RECORDING TIME
Rotate the MENU Jog Dial to move the highlight bar to "REC TIME", then press the MENU Jog Dial. The REC TIME Menu appears. Rotate the MENU Jog Dial to move the highlight bar to the desired time, then press the MENU Jog Dial. The Menu Screen reappears. Press the MENU Jog Dial again to exit the Menu Screen.
- 3** START RECORDING
Press the Recording Start/Stop Button after focusing on the subject. The recording stops automatically after the selected period of time.
- 4** ASSEMBLE SERIES OF PICTURES
Repeat step 3 for the desired number of pictures.
- 5** 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- or Wipe-in/out cannot be performed during Animation or Time-Lapse shooting.
- Before performing other operations following Animation or Time-Lapse recording, make sure the Animation or Time-Lapse mode is deactivated.
- Self-Timer, Animation and Time-Lapse are cancelled when the power is shut off or when the cassette is ejected.

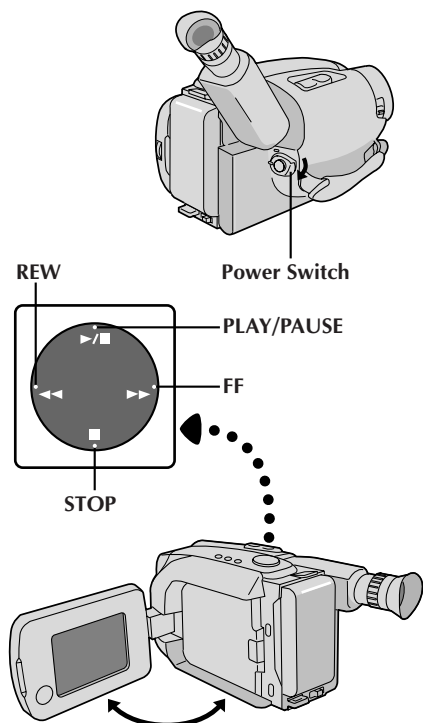
Time-Lapse

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.

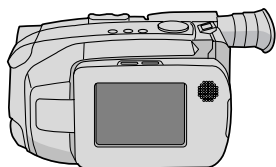
NOTE:

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

- 1** ACCESS MENU SCREEN
Turn the Select Dial to any position except AUTO LOCK, then press MENU Jog Dial.
- 2** SET INTERVAL BETWEEN RECORDINGS
Rotate the MENU Jog Dial to move the highlight bar to "INT. TIME", then press the MENU Jog Dial. The INT. TIME Menu appears. Rotate the MENU Jog Dial to move the highlight bar to the desired time, then press the MENU Jog Dial. The Menu Screen reappears.
- 3** SET RECORDING TIME
Rotate the MENU Jog Dial to move the highlight bar to "REC TIME", then press the MENU Jog Dial. The REC TIME Menu appears. Rotate the MENU Jog Dial to move the highlight bar to the desired time, then press the MENU Jog Dial. The Menu Screen reappears. Press the MENU Jog Dial again to exit the Menu Screen.
- 4** START TIME-LAPSE RECORDING
Press the Recording Start/Stop Button. Recording and intervals alternate automatically.
- 5** RELEASE TIME-LAPSE MODE
To release when "≡PAUSE≡" is displayed, set "REC TIME" and "INT. TIME" in the Menu Screen to "OFF". To release when "≡PAUSE≡" and "▶▶▶" are not displayed, press the Recording Start/Stop Button to display "≡PAUSE≡", then set "REC TIME" and "INT. TIME" in the Menu Screen to "OFF".



LCD Monitor in Retracted Position



Battery pack remaining power indicator*

Tape counter

LCD monitor/
viewfinder
indications

▶ : Playback

▶▶ : Fast-Forward/
Forward Search◀◀ : Rewind/Reverse
Search

■ : Still Playback

LOAD A CASSETTE

- 1 First open the LCD monitor to an angle of over 45 degrees. Press **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 Make sure the LCD monitor is fully open. Then set the Power Switch to "PLAY". The power indicator lights.

PLAY BACK

- 3 Press **PLAY/PAUSE**. The playback picture appears.

STOP PLAYBACK

- 4 Press **STOP**.

Rewind or Fast-forward the tape

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

NOTES:

- The camcorder shuts off automatically after about 5 minutes in Stop mode. To turn on again, set the Power Switch to "POWER OFF", then to "PLAY".
- When the Power Switch is set to "PLAY" and the LCD monitor is opened at an angle of 45 degrees or more, the LCD monitor switches on and the viewfinder switches off automatically to save power.
- The playback picture can also be viewed in the viewfinder (with the LCD monitor shut) or on a connected TV (see pg. 40). Camcorder operation is the same as described in this section.
- You can also view the playback picture on the LCD monitor with it flipped over and retracted.
- LCD monitor/viewfinder indications:
 - The indication marked with * is displayed for approx. 5 seconds on the LCD monitor when the LCD monitor is turned on, and then it disappears. However, the battery pack remaining power indicator "☐" blinks when the power is almost gone.
 - During Stop, Fast-Forward or Rewind mode, none of the indications are displayed in the viewfinder.

Adjust the brightness of the LCD monitor

To brighten the image, turn the **BRIGHT** Dial towards “+”. To darken the image, turn the Dial towards “-”.

Speaker volume control

You can adjust the speaker volume by turning the **VOLUME** Dial.

ADJUST VOLUME

- 1 *If you want to turn up the volume . . .*
Turn the Dial towards “+”.
- 1 *If you want to turn down the volume . . .*
Turn the Dial towards “-”.

NOTE:

When the LCD monitor is turned off, sound is not heard from the speaker.

Tracking

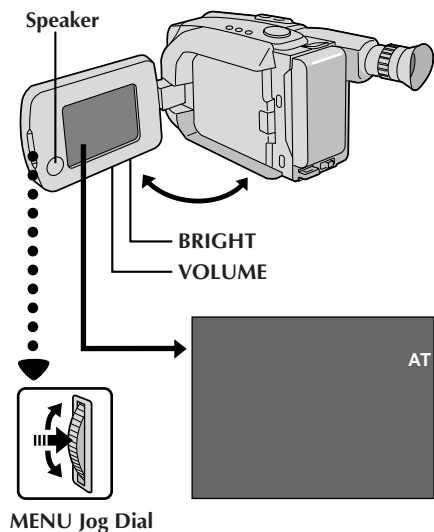
This function can be used to eliminate noise bars that appear on-screen during playback. Initial setting is Auto Tracking. Manual Tracking is also available.

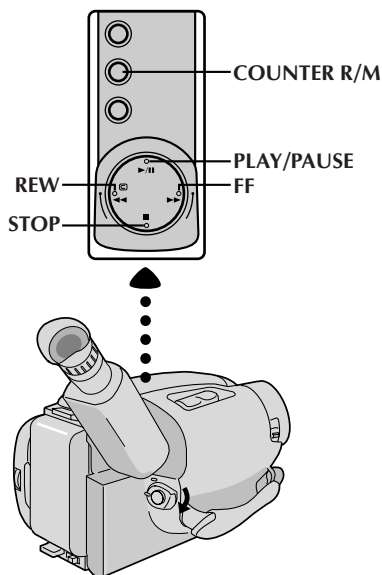
ACTIVATE MANUAL TRACKING

- 1 Press the MENU Jog Dial during playback mode. Keep rotating it until noise bars disappear.
 - To return to Auto Tracking, press the MENU Jog Dial. “AT” blinks. When Auto Tracking finishes, the indication disappears.

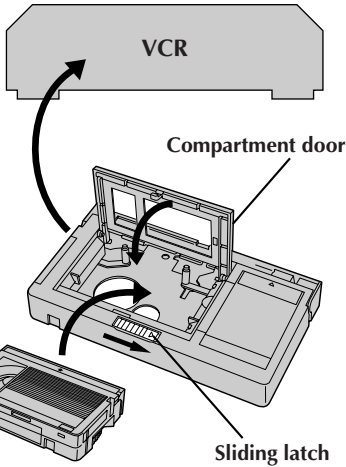
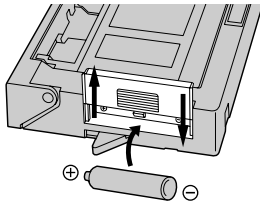
NOTES:

- When noise bars appear during playback, the camcorder enters the Auto Tracking mode and “AT” is displayed.
- Manual Tracking may not work with tapes recorded on other VCRs or camcorders.

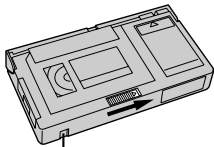




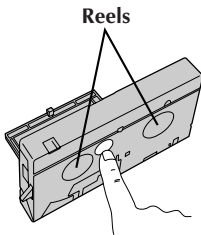
<p>FEATURE:</p> <p>PURPOSE:</p> <p>OPERATION:</p> <p>NOTE:</p>	<p>Still Playback</p> <p>To pause during playback.</p> <ol style="list-style-type: none"> 1) Press PLAY/PAUSE during playback. 2) To resume normal playback, press PLAY/PAUSE again. <p><i>Noise bars appear and pictures may become monochrome during Still Playback. This is normal.</i></p>
<p>FEATURE:</p> <p>PURPOSE:</p> <p>OPERATION:</p> <p>NOTE:</p>	<p>Shuttle Search</p> <p>To allow high-speed search in either direction.</p> <p>Forward Search</p> <ol style="list-style-type: none"> 1) Press FF during playback. <p>Reverse Search</p> <ol style="list-style-type: none"> 1) Press REW during playback. <p><i>Noise bars appear and pictures may become monochrome or darken in Shuttle Search. This is normal.</i></p>
<p>FEATURE:</p> <p>PURPOSE:</p> <p>OPERATION:</p> <p>NOTES:</p>	<p>Counter Memory Function</p> <p>To make it easier to locate a specific tape segment.</p> <ol style="list-style-type: none"> 1) Press COUNTER R/M and hold for more than 1 second. The counter resets to "0:00:00". 2) Press COUNTER R/M for less than 1 second. "M" appears. 3) After recording or playback, press STOP, then REW. The tape automatically stops at or close to 0:00:00. 4) Press PLAY/PAUSE to start playback. <ul style="list-style-type: none"> • <i>The counter memory functions in the Fast-Forward and Rewind modes.</i> • <i>To disable Counter Memory Function, press COUNTER R/M for less than 1 second so the "M" disappears.</i>



Compact video cassette



Recording safety hole



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

- 1 Slide the battery cover up to remove it, and install one "R6(AA)" size battery as shown in the illustration to the 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

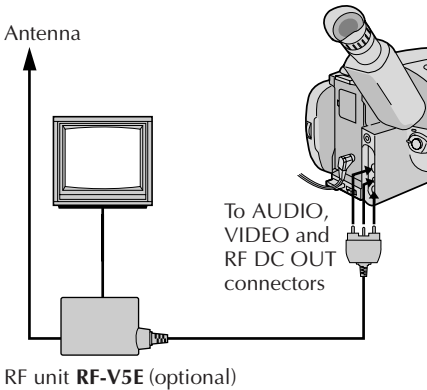
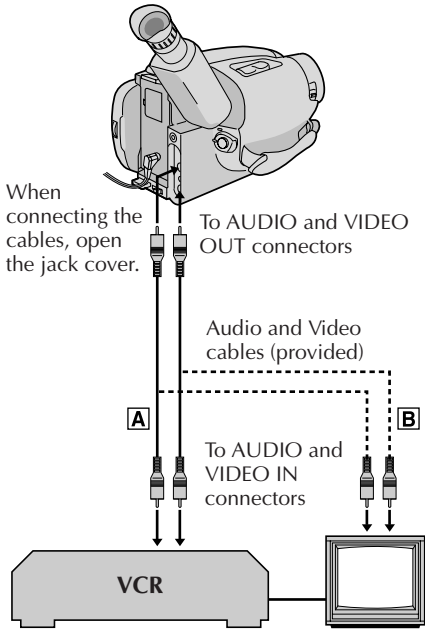
- 3 Load the cassette adapter into the VCR and play the tape back as you would any other.

REMOVE CASSETTE FROM ADAPTER

- 4 Slide the latch and the compartment door opens automatically. This may take around 10 seconds. Do not attempt to force the adapter open. Then insert your finger in the hole on the underside of the adapter as shown in the illustration to the 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.

**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 provided Audio and Video cables.

1 CONNECT CAMCORDER TO VCR

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

2 SUPPLY POWER

Turn on the camcorder, the VCR and the TV.

3 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.

1 CONNECT CAMCORDER TO TV

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

2 SELECT MODE

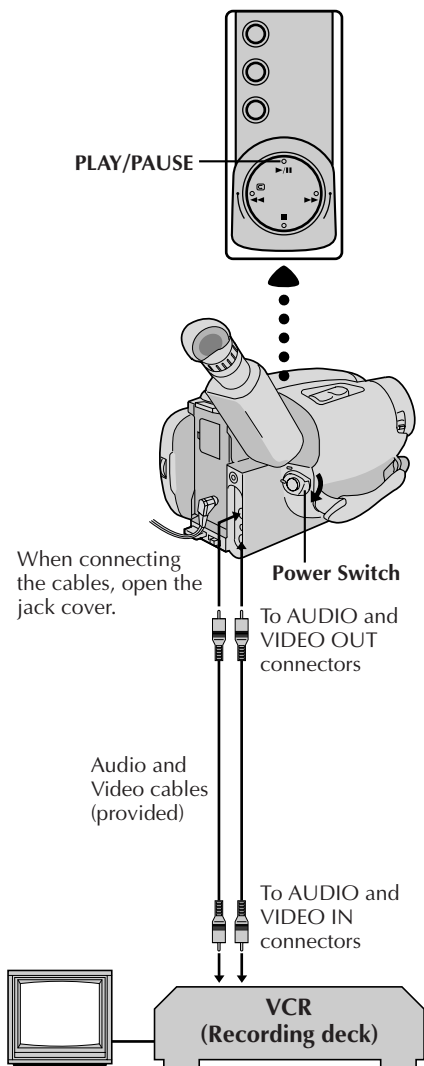
Set the TV to its VIDEO or AV mode (as specified in its instructions).

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.



Tape Dubbing

CONNECT EQUIPMENT

- 1 Following the illustration to the 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

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

FIND EDIT-IN POINT

- 4 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.

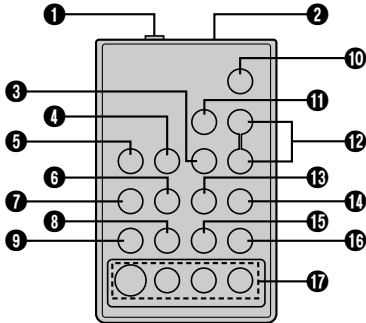
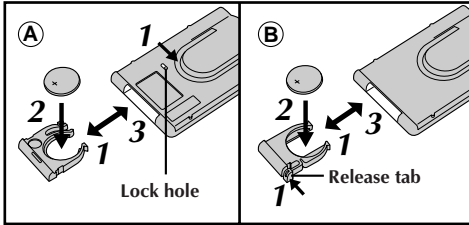
STOP EDITING TEMPORARILY

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

EDIT MORE SEGMENTS

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

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



RM-V700U (provided)

INSTALLING THE BATTERY

PULL OUT BATTERY HOLDER

- Type A:** Pull out while sliding the lock hole.
- Type B:** Pinch the release tab and pull out.

INSERT BATTERY

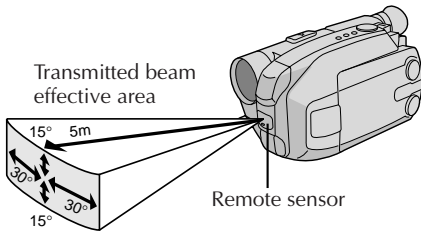
- Making sure the plus (+) side is up, insert the lithium battery (CR2025)* into the battery holder.

REPLACE BATTERY HOLDER

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

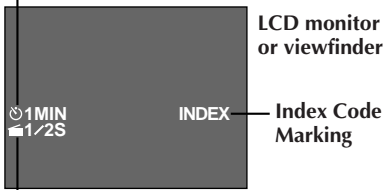
*Read the caution concerning lithium batteries (☞ pg. 2).

BUTTONS	FUNCTIONS	
	With the camcorder's power switch set to "CAMERA".	With the camcorder's power switch set to "PLAY".
① PAUSE IN Connector	—	☞ pg. 45
② Infrared beam transmitting window	Transmits the beam signal.	
③ MBR SET Button	—	☞ pg. 44
④ INT. TIME Button	Self-Timer/Time-Lapse (☞ pg. 43)	—
⑤ REC TIME Button	Animation/Time-Lapse (☞ pg. 43)	—
⑥ FF Button	Retake (forward) (☞ pg. 17)	FF/FF Shuttle Search (☞ pg. 36, 38)
⑦ REW Button	Retake (rewind)/Quick Review (☞ pg. 17)	Rew/Rew Shuttle Search (☞ pg. 36, 38)
⑧ PAUSE Button	—	Pause (☞ pg. 36)
⑨ PLAY Button	—	Playback start (☞ pg. 36)
⑩ START/STOP Button	Functions same as the Recording Start/Stop button on the camcorder.	
⑪ VISS Button	Index Code marking (☞ pg. 43)	—
⑫ ZOOM (T/W) Buttons	Zoom in/out (☞ pg. 16)	—
⑬ VCR CTL Button	—	☞ pg. 44
⑭ A.DUB Button	—	Audio dubbing (☞ pg. 49)
⑮ STOP Button	—	Stop (☞ pg. 36)
⑯ INSERT Button	—	Insert Editing (☞ pg. 48)
⑰ R.A.EDIT Buttons	—	☞ pg. 46

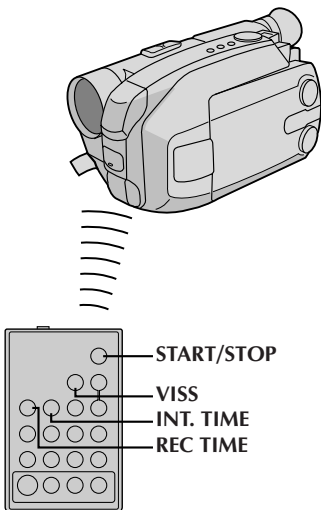


When using the remote control, be sure to point it at the remote sensor. The above illustration shows the approximate transmitted beam effective area for indoor use. The transmitted beam may not be effective or may cause incorrect operation outdoors or when the remote sensor is directly exposed to sunlight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

Interval Timer Indicator



Rec Time Indicator



RM-V700U (provided)

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

1) Set
Instead of performing steps 1 through 4 on pg. 34 ("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).

2) Release
Instead of setting "INT. TIME" 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. 35 ("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, 5S and No indication (off).

2) Release
Instead of using the Menu in step 5 on pg. 35, 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. 35 ("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, 5S and No indication (off).

2) Release
Instead of using the Menu in step 5 on pg. 35, press **INT. TIME** and **REC TIME** on the remote control until the indicators disappear.

NOTE:

Also refer to pg. 34 and 35.

FEATURE:
PURPOSE:

Index Code Marking

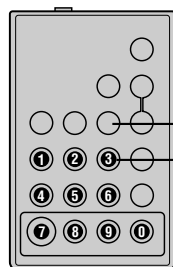
To give you automatic access to any selected point on a recording.

OPERATION:

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

NOTE:

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



MBR SET



VCR CTL

RM-V700U
(provided)

VCR CODE LIST

VCR BRAND NAME	BUTTONS (A) (B)	VCR BRAND NAME	BUTTONS (A) (B)
AKAI	6 2 6 4 7 7	PHILIPS	1 9 9 5 1 1 9 4 9 1
BLAUPUNKT	1 3		9 6 1 2 3 3 7 2
FERGUSON	9 7 9 8 3 2	SANYO	3 6 3 5
GRUNDIG	1 4 3 4	SELECO, REX	9 1 9 6
HITACHI	6 6 6 3	SHARP	1 5 1 0
JVC A B C	9 1 9 6 9 3	SONY	6 5 6 0 3 9 3 1
MITSUBISHI	6 7 6 8	THOMSON, TELEFUNKEN, SABA, NORDMENDE	9 1 9 6 9 7 3 2
NEC	3 7 3 8	TOSHIBA	6 9 6 1
PANASONIC	1 3 1 7 1 1 9 4 1 8		

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 provided RM-V700U MBR (Multi-Brand Remote,  pg. 42) is set to operate with your brand of VCR (see VCR CODE LIST), but can also be performed by operating the VCR manually. Before operation, make sure the lithium battery is installed in the remote control RM-V700U ( pg. 42).

SET REMOTE/VCR CODE

SET REMOTE TO OPERATE VCR

1 Turn off the power to the VCR and point the remote towards 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 VCR

2 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).

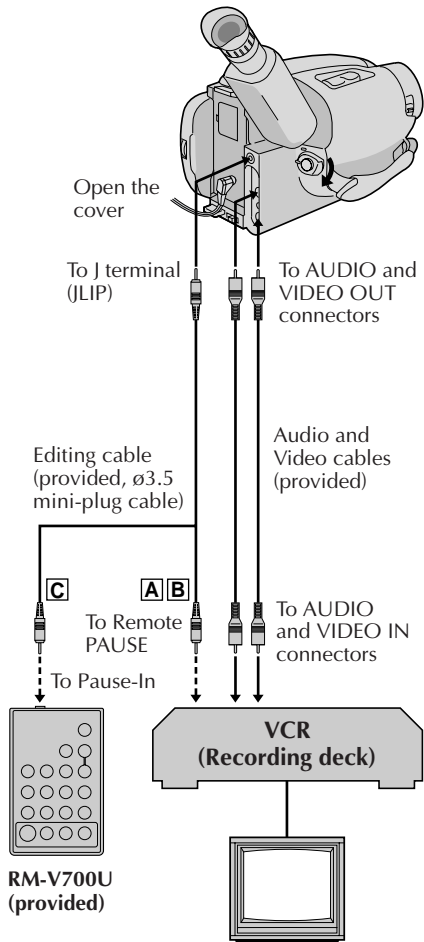
You're now ready to try Random Assemble Editing.

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-V700U is not able to control the VCR, use the controls on the VCR.



MAKE CONNECTIONS

CONNECT TO . . .

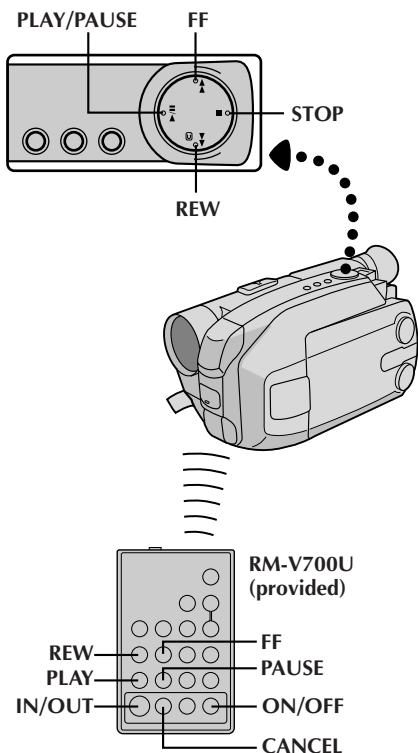
- 1**
 - A JVC VCR EQUIPPED WITH REMOTE PAUSE TERMINAL**
Connect the editing cable to the Remote PAUSE terminal.
 - B JVC VCR NOT EQUIPPED WITH REMOTE PAUSE TERMINAL BUT EQUIPPED WITH R.A. EDIT CONNECTOR**
Connect the editing cable to the R.A.EDIT connector.
 - C VCR OTHER THAN TYPE A OR B**
Connect the editing cable to the RM-V700U's Pause-In jack.

PREPARE CAMCORDER

- 2** Insert a recorded tape and set the Power Switch to "PLAY".

PREPARE VCR

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



	IN	OUT
1	0:00:25	--:--:--
2		
3		
4		
5		
6		
7		
8		
COUNTER		0:00:25
TOTAL		0:00:00



	IN	OUT
1	0:00:25	0:01:05
2	0:03:18	0:03:31
3	0:02:33	0:02:53
4	0:04:11	--:--:--
5		
6		
7		
8		
COUNTER		0:04:11
TOTAL		0:01:13

SELECT SCENES

ACCESS R.A. EDIT COUNTER DISPLAY

- 1 Press **PLAY/PAUSE**, then press **ON/OFF** and the counter display appears on the LCD monitor or in the viewfinder and the screen of the connected TV.

REGISTER BEGINNING OF SCENE

- 2 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

- 3 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

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

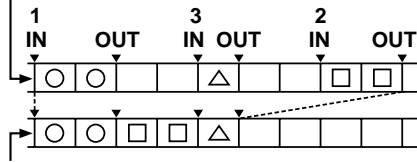
MAKE CORRECTIONS

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

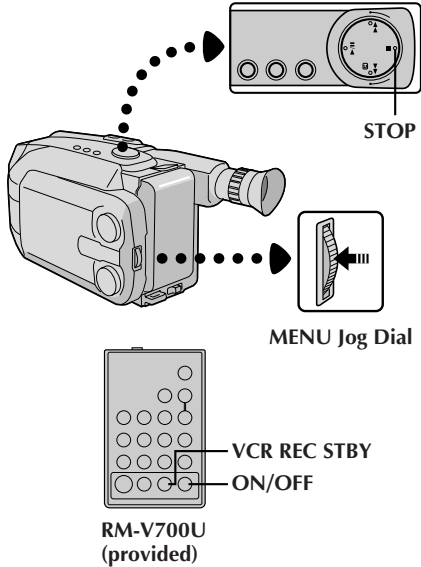
NOTES:

- There must be at least one second between an in-point and its corresponding out-point.
- To ensure correct operation, there should be at least 15 seconds between an out-point and the next in-point.
- 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 **ON/OFF** 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)



Edited tape (VCR)

RM-V700U
(provided)

AUTOMATIC EDITING TO VCR

ENGAGE VCR'S RECORD-PAUSE MODE

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

BEGIN AUTOMATIC EDITING

- 2 Press the **MENU Jog Dial** on the camcorder, and the previously selected scenes are copied to the VCR in the specified order. While editing, the R.A. Edit counter of the scene which is being copied is shown with a blinking highlight.

END AUTOMATIC EDITING

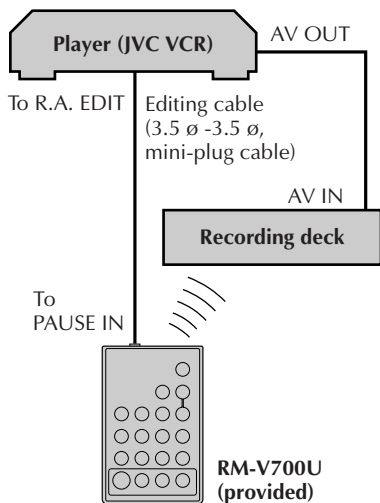
- 3 When all selected scenes have been copied, the camcorder and VCR enter the still or pause mode. Press **STOP** on both units. To make the R.A. Edit counter display disappear, press **ON/OFF**.

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

NOTES:

- If you performed step 1 on page 45 ("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-V700U, 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 . . .

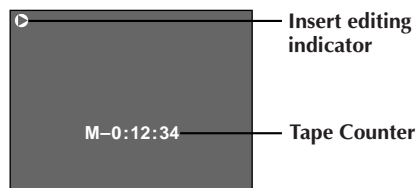
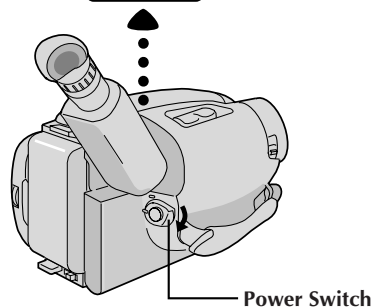
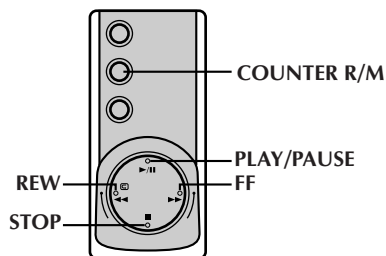
- a VCR other than JVC, or
- a JVC VCR which has **neither** a Remote PAUSE nor an R.A. EDIT connector

How to use:

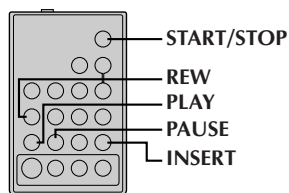
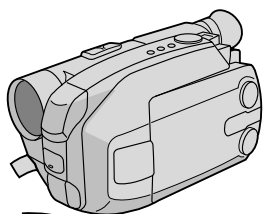
- Connect the playback deck and RM-V700U as shown on the left.
- Set the RM-V700U to correspond to the brand of the recording deck. (pg. 44)
- For Random Assemble Editing procedure, please refer to the instruction manual of the JVC VCR you are using as the playback deck.

Notes:

- RM-V700U cannot be used to control the playback deck.
- RM-V700U is capable of controlling 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.



LCD monitor or viewfinder

RM-V700U
(provided)

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-V700U remote control unit to perform this procedure.

SELECT MODE

- 1 Set the Power Switch to "PLAY".

FIND EDIT-OUT POINT

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

RESET COUNTER

- 3 Press and hold **COUNTER R/M** for more than 1 second to reset the tape counter, then press again for less than 1 second and make sure "M" appears.

FIND EDIT-IN POINT

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

ENGAGE INSERT EDITING MODE

- 5 Press and hold **INSERT**, and without releasing **INSERT**, press and release **PAUSE**. The Insert mode is engaged. When the scene the camcorder is aimed at appears on the screen, go to the next step.

BEGIN INSERT EDITING

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

END INSERT EDITING

- 7 Press **STOP**.

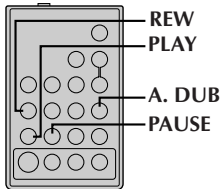
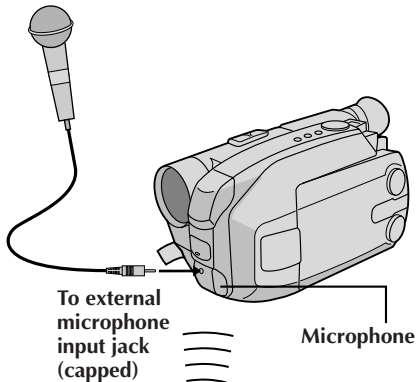
NOTES:

- When Insert Editing is performed with the LCD monitor fully opened, the original audio will be heard from the speaker.
- After step 5, Retake (pg. 17) 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 indicator



LCD monitor or viewfinder

RM-V700U
(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 (pg. 48) before continuing.

- The sound comes from the built-in microphone (or an external microphone if connected).

FIND EDIT-IN POINT

- 1** 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

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

BEGIN AUDIO DUBBING

- 3** 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

- 4** Press **STOP**.

NOTES:

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

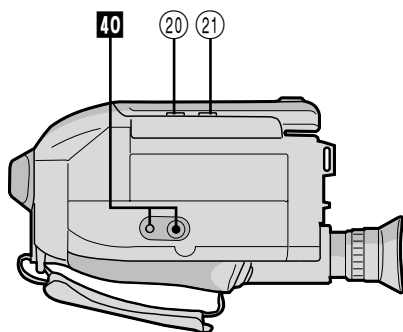
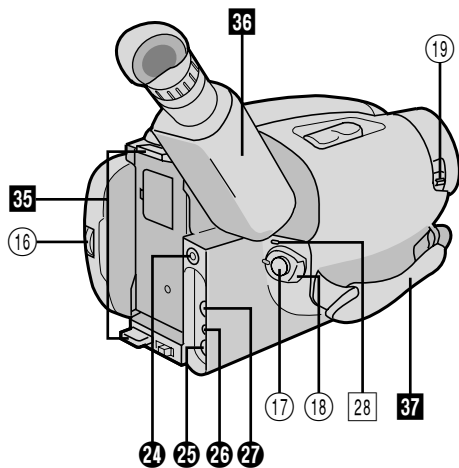
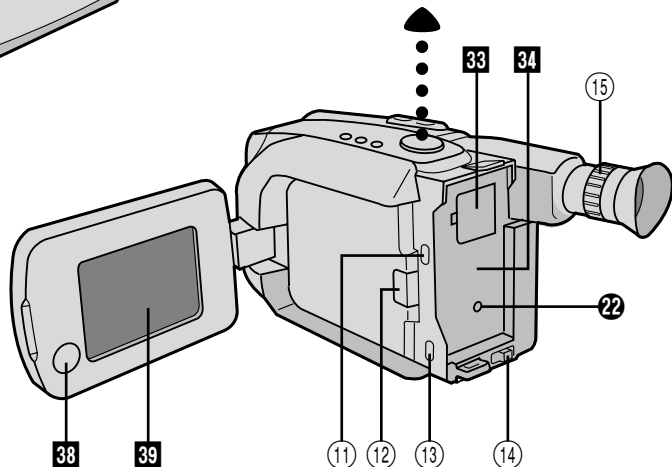
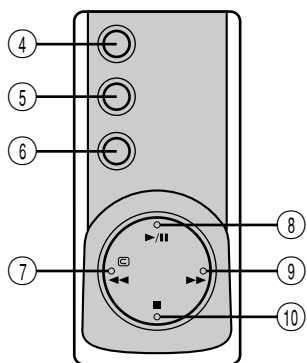
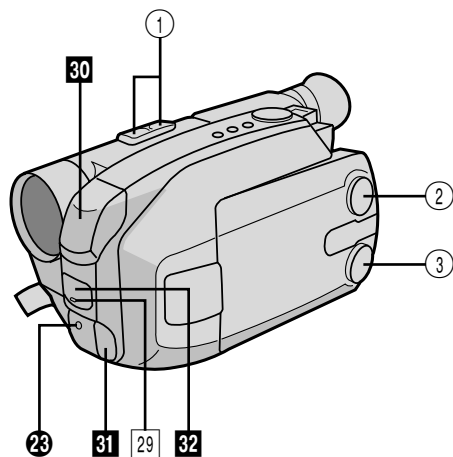
NOTES (for Insert Editing and Audio Dubbing):

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




























SYMPTOM	POSSIBLE CAUSE(S)
POWER	
No power is supplied.	<ul style="list-style-type: none"> ● 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.	<ul style="list-style-type: none"> ● 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.	<ul style="list-style-type: none"> ● 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.
Recording does not start.	<ul style="list-style-type: none"> ● The camcorder Power Switch has not been set to "CAMERA" (☞ pg. 12).
PLAYBACK	
The tape is running, but there's no playback picture.	<ul style="list-style-type: none"> ● 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.
Playback picture is blurred or interrupted.	<ul style="list-style-type: none"> ● 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.	<ul style="list-style-type: none"> ● This is normal.
TAPE TRANSPORT	
The tape stops during fast-forward or rewind.	<ul style="list-style-type: none"> ● The Counter Memory Function has been activated (☞ pg. 38).
Rewinding or fast-forwarding cannot be performed.	<ul style="list-style-type: none"> ● The tape is already fully wound on one reel or the other.

SYMPTOM	POSSIBLE CAUSE(S)
OTHER	
The tape won't eject.	<ul style="list-style-type: none"> ● The battery pack is running low. ● If the LCD monitor is not open over 45 degrees, EJECT switch does not function.
Some functions are not available.	<ul style="list-style-type: none"> ● The Select Dial is set to "AUTO LOCK".
Vertical white lines appear when shooting a very bright object.	<ul style="list-style-type: none"> ● 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 LCD monitor and the viewfinder.	<ul style="list-style-type: none"> ● Sunlight is directly entering the lens. This is not a defect of the camcorder.
The rear of the LCD monitor is hot.	<ul style="list-style-type: none"> ● The light used to illuminate the LCD monitor causes it to be hot. Close the LCD monitor to turn it off or set the Power Switch to OFF, and let the unit cool down.
Coloured bright spots appear all over the LCD monitor.	<ul style="list-style-type: none"> ● The LCD monitor is made with high-precision technology. However, black spots or bright spots of light (red, green or blue) may appear constantly on the LCD monitor. These spots are not recorded on the tape. This is not due to any defect of the unit. (Effective dots: more than 99.99 %.)
The indicators and the picture colour on the LCD monitor are not clear.	<ul style="list-style-type: none"> ● This may occur when the surface or the edge of the LCD monitor is pressed.
The LCD monitor, the viewfinder and the lens have become dirty (ex. fingerprints).	<ul style="list-style-type: none"> ● Wipe them gently with soft cloth. Gently wipe the LCD monitor in a semicircle because wiping strongly spreads the stain and it won't come out easily.
The picture is blurred in the Quick Review or Retake mode.	<ul style="list-style-type: none"> ● This is normal while recording in the LP mode. Some noise may be present while recording in the SP mode (☞ pg. 8).
An error number (i.e. E03) appears.	<ul style="list-style-type: none"> ● 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, consult your nearest JVC dealer.
The image is out of focus.	<ul style="list-style-type: none"> ● The dioptre needs to be adjusted (☞ pg. 10). ● The scene being shot is adversely affecting the operation of Auto Focus (☞ pg. 30).
The date and time displays disappear.	<ul style="list-style-type: none"> ● If you remove the power source from the camcorder while the power is on, all settings and selections are erased. Make sure to turn the camcorder's power off before disconnecting the power source.
The wrong date and time are displayed/recorded.	<ul style="list-style-type: none"> ● If you have not performed Date/Time Setting (☞ pg. 7), the date and time are not displayed/recorded correctly. Be sure that Date/Time setting is carried out.
Even though the Lens Cover is open, the Lens Cover Warning indicator blinks.	<ul style="list-style-type: none"> ● 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.





Controls

- ① Power Zoom Button  pg. 16
- ② Multi-Function Control
 - EFFECT Button  pg. 22
 - WIDE Button  pg. 23
 - SUPER LOLUX Button  pg. 23
 - TITLE Button  pg. 24
- ③ Select Dial  pg. 20
- ④ Recording Mode [SP/LP] Button  pg. 8
- ⑤ DATE/TIME Button  pg. 19
COUNTER R/M Button  pg. 38
- ⑥ P. [Picture] STABILIZER Button  pg. 17
- ⑦ REW Button  pg. 36
RETAKE R [Quick Review] Button  pg. 17
- ⑧ PLAY/PAUSE Button  pg. 36
- ⑨ FF Button  pg. 36
RETAKE F Button  pg. 17
- ⑩ STOP Button  pg. 36
- ⑪ EJECT Switch  pg. 9
- ⑫ PUSH Button  pg. 9
- ⑬ LIGHT OFF/AUTO/ON Switch  pg. 18
- ⑭ BATT. [Battery] RELEASE Switch  pg. 4
- ⑮ Dioptre Adjustment  pg. 10
- ⑯ Function Navigator Dial
[MENU Jog Dial]  pg. 7
- ⑰ Recording Start/Stop Button  pg. 12
- ⑱ Power Switch  pg. 12, 36
- ⑲ LENS COVER Switch  pg. 12
- ⑳ BRIGHT Dial  pg. 37
- ㉑ VOLUME Dial  pg. 37












Connectors

- ㉒ DC IN Jack  pg. 5
- The jacks ㉒ to ㉔ are located beneath the jack cover.
- ㉓ External Microphone Input Jack  pg. 49
 - ㉔ J terminal [JLIP (Joint Level Interface Protocol) Connector.]
 - Connect the editing cable when performing Random Assemble Editing ( pg. 44 – 47).
 - It is used to connect the camcorder to a device such as a personal computer.
For further detail consult your nearest JVC dealer.
 - JLIP-controlled editing from camcorder to VCR is not possible if the VCR is not equipped with a J terminal.
 - ㉕ VIDEO OUT Connector  pg. 40
 - ㉖ RF DC OUT Connector  pg. 40
 - ㉗ AUDIO OUT Connector  pg. 40

Indicators

- ㉘ Power Indicator  pg. 12
- ㉙ Tally Lamp  pg. 12

Other Parts

- ㉚ Video Light  pg. 18
- ㉛ Microphone  pg. 49
- ㉜ • Camera sensor
Be careful not to cover this area; built-in here is the sensor necessary for shooting.
• Remote Sensor  pg. 43
- ㉝ Clock Battery Compartment  pg. 6
- ㉞ Battery Pack Mount  pg. 4
- ㉟ Shoulder Strap Eyelets  pg. 11
- ㊱ Electronic Viewfinder  pg. 10
- ㊲ Grip Strap  pg. 10
- ㊳ Speaker  pg. 37
- ㊴ LCD monitor  pg. 14, 36
- ㊵ Tripod Mounting Socket  pg. 11



LCD monitor/Viewfinder Indications

- ①*Cassette Warning/
Tape Remaining Time pg. 13
When no cassette is inserted: the cassette () warning blinks.
When Erase Protection tab is not in the position that allows recording: the cassette () warning lights. Otherwise, the tape remaining time is displayed and the **tape remaining time warning†** blinks when the tape is about to reach its end.
When the Power Switch is set to "PLAY" and a tape is loaded: the cassette () mark is displayed regardless of the Erase Protection tab's position.
- ② Recording Mode [SP/LP] Indicator pg. 8
- ③, ⑨ Programme AE Indicator pg. 20
Displayed at ③ for approx. 1 second when the Select Dial is switched from one position to another. Then only the indicator remains at ⑨.
- ③, ⑩ Fade/Wipe-Standby Indicator pg. 22
Displayed at ③ for approx. 2 seconds when the Fade/Wipe is switched from one function to another by pressing the EFFECT button. Then only the indicator remains at ⑩.
- ④ Multi-Function Control
Indication pg. 22, 23
Displayed when any of the buttons located on the Multi-Function Control is pressed. The indication disappears within approx. 2 seconds.
- ⑤ Super LoLux Indicator pg. 23
- ⑥*Tape Length Indicator pg. 8
- ⑦ Zoom Indicator Bar pg. 16
- ⑧ Recording Indicator pg. 12
- ⑪ Picture Stabiliser Indicator pg. 17
- ⑫ Interval Timer/Recording Time
Indicator pg. 34
- ⑬ •Record-Standby Mode Indicator pg. 12
• Lens Cover Warning: LENS COVER pg. 13
- ⑭ Instant Title Display pg. 24
- ⑮ Date/Time/Character Display pg. 19
- ⑯*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 (**battery power warning†**), 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.
- ⑰ Focus Indicator pg. 31
- ⑱ Exposure Control Level Counter pg. 29
- ⑲ White Balance Mode Indicator pg. 32
- ⑳ Clock Battery Warning
Blinks for approx. 10 seconds when the power is turned on. This display also blinks when the clock (lithium) battery is either not installed or has discharged. Install or replace the old battery with a new one (pg. 6).
- ㉑ • Tape End Display: TAPE END pg. 13
Appears when the end of the tape is reached during playback, recording or fast-forward.
• Condensation Warning:
When this indication appears, all functions except tape eject and power on/off are disabled. Turn the unit off (without removing the power source) for a few hours, and when you turn it on again the indication should disappear.

*: Displayed for approx. 5 seconds on the LCD monitor when the LCD monitor is turned on, and then disappear. However, the indications marked † are not displayed.

DANGER:

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 for some time.
- When operating, keep a distance of about 30 cm between the video light and people or object.
- Do not use near flammable or explosive materials.
- It is recommended that you consult your nearest JVC dealer for replacing the video light.

General Battery Precautions

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

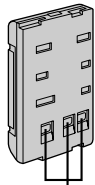
Please make note of the following rules for battery use. When misused, battery can leak or explode.

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

Battery Packs

The 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** 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.



Terminals

NOTES:

- It is normal for the battery pack to be warm after charging, or after use.
Temperature Range Specifications
Charging 10°C to 35°C
Operation 0°C to 40°C
Storage -10°C to 30°C
- 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.

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

LCD monitor

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

About moisture condensation . . .

- You may have observed that pouring a cold liquid into a glass will cause drops of water to form on the glass' outer surface. This same phenomenon occurs on the head drum of a camcorder when it is moved from a cool place to a warm place, after heating a cold room, under extremely humid conditions or in a place directly subjected to the cool air from an air conditioner.
- Moisture on the head drum can cause severe damage to the video tape, and can lead to internal damage to the camcorder itself.

Serious malfunctioning

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

For Your Maintenance

1. After Use

- ① Set the power switch to "POWER OFF" to turn off the camcorder.
- ② Press EJECT to open the cassette holder, then remove the cassette.
- ③ Close and lock the cassette holder by pressing PUSH.
- ④ Close and lock the LCD monitor.
- ⑤ Slide BATT. RELEASE to remove the battery pack.
- ⑥ 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 LCD MONITOR**
Open the LCD monitor and wipe gently with soft cloth. Be careful not to damage the monitor. Close the LCD monitor.
- ③ **CLEAN LENS**
Blow it with a blower brush, then wipe gently with lens cleaning paper.
- ④ **REMOVE EYEPIECE**
Turn the eyepiece counterclockwise and pull it out.
- ⑤ **CLEAN VIEWFINDER**
Remove dust using a blower brush.
- ⑥ **RE-ATTACH EYEPIECE**
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.
- Mould may form if the lens is left dirty.

GENERAL

Format	: VHS PAL standard
Power source	: DC 6V 
Power consumption	
LCD monitor off, viewfinder on	: 6.0 W
LCD monitor on, viewfinder off	: 6.5 W
LCD monitor on, viewfinder on	: 7.2 W
Light	: 2.9 W
Signal system	: PAL-type
Video recording system	
Luminance	: FM recording
Colour	: Converted sub-carrier direct recording Conforms to VHS standard
Cassette	:  cassette
Tape speed	
SP	: 23.39 mm/sec.
LP	: 11.70 mm/sec.
Recording time (max.)	
SP	: 60 minutes
LP	: 120 minutes (with EC-60 cassette)
Operating temperature	: 0°C to +40°C
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to +50°C
Weight	: Approx. 990 g
Dimensions	
(Including viewfinder)	: 116 (W) x 117 (H) x 242 (D) mm

CAMERA

Pick up	: 1/4" format CCD
Lens	: F1.6, f = 3.8 to 83.6 mm, 22:1 power zoom lens with auto iris and macro control, filter diameter 46 mm
Viewfinder	: Electronic viewfinder with 0.5" black/white CRT
White balance adjustment	: Auto/Manual adjustment

LCD MONITOR

Size	: 4" diagonally measured
LCD system	: LCD/TFT active matrix system



VIDEO

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

AUDIO

Output	: -8 dBs, 1 k-ohm (via AUDIO OUT connector)
Speaker	: 20 mm round x 1, monaural
External microphone input	: -68 dBs, high impedance unbalanced with ø3.5 mm (MONO)

AC POWER ADAPTER/BATTERY CHARGER (AA-V15EG)

Power requirement	: AC 110 V to 240 V \sim , 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	: 140 (W) x 42 (H) x 68 (D) mm
Weight	: Approx. 300 g

CASSETTE ADAPTER (C-P7U)

Dimensions	: 188 (W) x 25 (H) x 104 (D) mm
Weight	: Approx. 240 g
Accessory	: "AA (R6)"-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
- Compact VHS-C Cassettes EC-60/45/30
- Active Carrying Bag CB-V7U
- Remote Control Unit RM-V700U

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

Specifications shown are for SP mode unless otherwise indicated.

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