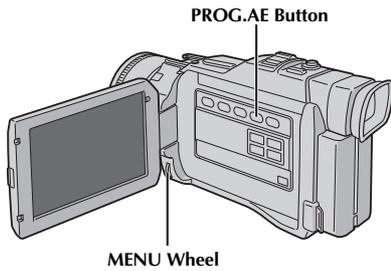
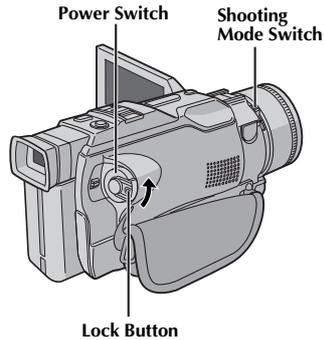


36_{EN} RECORDING Advanced Features For Video And D.S.C. (cont.)

Program AE With Special Effects



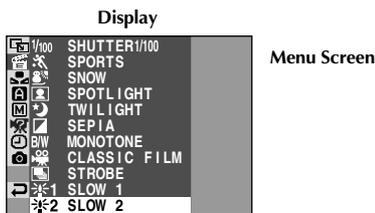
- 1** Set the Power Switch to “**M**” while pressing down the Lock Button located on the switch. Pull out the viewfinder fully or open the LCD monitor fully.
- 2** Press the **MENU** wheel. The Menu Screen appears.
- 3** Rotate the **MENU** wheel to select “**PROGRAM AE**”, then press it.
- 4** Rotate the **MENU** wheel to select the desired mode, then press it. Selection is complete.
- 5** Press the **MENU** wheel again. The Menu Screen closes.
- 6** Press **PROG.AE** so that the selected effect indicator appears.

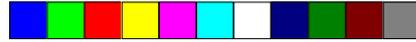
To Deactivate The Selected Mode . . .

.... press **PROG.AE** again so that the effect indicator disappears.

NOTE:

Program AE with special effects can be changed during recording or during Record-Standby.



**SHUTTER**

1/60—The shutter speed is fixed at 1/60th of a second. Black bands that usually appear when shooting a TV screen become narrower.

1/100—The shutter speed is fixed at 1/100th of a second. The flickering that occurs when shooting under a fluorescent light or mercury-vapor lamp is reduced.



 **SPORTS**
(Variable
Shutter Speed:
1/250 – 1/4000)*4

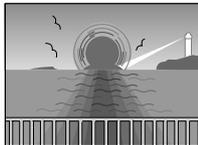
This setting allows fast-moving images to be captured one frame at a time, for vivid, stable slow-motion playback. The faster the shutter speed, the darker the picture becomes. Use the shutter function under good lighting conditions.

 **SNOW**

Compensates for subjects that may otherwise appear too dark when shooting in extremely bright surroundings such as in the snow.

 **SPOTLIGHT**

Compensates for subjects that may otherwise appear too bright when shooting under extremely strong direct lighting such as spotlights.



 **TWILIGHT**

Makes evening scenes look more natural. White Balance (☰ pg. 39) is initially set to  , but can be changed to your desired setting. When Twilight is chosen, the camcorder automatically adjusts the focus from approx. 10 m (32 ft) to infinity. From less than 10 m (32 ft), adjust the focus manually.

 **SEPIA***1

Recorded scenes have a brownish tint like old photos. Combine this with the 16:9LB mode for a classic look.

B/W MONOTONE*1

Like black and white films, your footage is shot in B/W. Used together with the 16:9LB mode, it enhances the “classic film” effect.



 **CLASSIC FILM***2

Gives recorded scenes a strobe effect.



 **STROBE***2

Your recording looks like a series of consecutive snapshots.

SLOW (Slow Shutter)*1

Lights dark subjects or areas even brighter than they would be under good natural lighting. Use “SLOW” only in dark areas.

 **SLOW 1**

Slow Shutter raises light sensitivity to allow shooting in dark environments.

 **SLOW 2**

Slow Shutter raises light sensitivity further to allow shooting in even darker environments.

NOTES:

- When using “SLOW”, the image takes on a strobe-like effect.
- If the manual focus indicator blinks when “SLOW” is used, adjust focus manually and use a tripod.



 **VIDEO ECHO***3

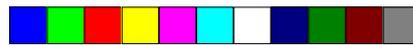
Adds a “ghost” to the subject, giving your recording a “fantasy” feeling. Zoom magnification of over 10X is not available.

*1 Not available when “CAMERA MODE” is set to “DUAL” in the Menu Screen (☰ pg. 28, 29).

*2 Available when “CAMERA MODE” is set to “VIDEO” or “PS-VIDEO”.

*3 Available when “CAMERA MODE” is set to “VIDEO”.

*4 With images shot in the UXGA mode, the shutter speed is applicable only up to 1/500 (☰ pg. 16).



38_{EN} RECORDING Advanced Features For Video And D.S.C. (cont.)

Exposure Control

Manual exposure adjustment is recommended in the following situations:

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

- 1 Set the Power Switch to "M" while pressing down the Lock Button located on the switch, then pull out the viewfinder fully or open the LCD monitor fully.
- 2 Press **EXPOSURE**. The exposure control indicator appear.
- 3 Rotate the **MENU** wheel towards "+" to brighten the image, or towards "-" to darken the image. (maximum ±6)
- 4 Press the **MENU** wheel. Exposure adjustment is complete.

To Return To Automatic Exposure Control . . .

.... press **EXPOSURE** or set the Power Switch to "A".

To Brighten The Subject Quickly . . .

.... press **BACKLIGHT**. is displayed and the subject is brightened. If pressed again, disappears and the brightness returns to the previous level.

- +4 exposure has the same effect as the **BACKLIGHT** Button.
- Using **BACKLIGHT** may cause the light around the subject to become too bright and the subject to become white.
- Backlight compensations is also available when the Power Switch is set to "A".
- Pressing the **BACKLIGHT** button has no effect when the manual Exposure Control mode is engaged.

Iris Lock

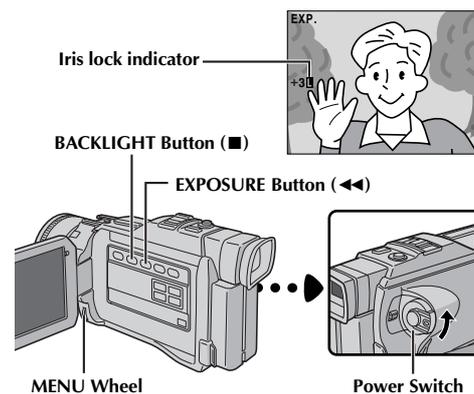
Use this function in the following situations:

- When shooting a moving subject.
- When the distance to the subject changes (so its size in the LCD monitor or the viewfinder changes), such as when the subject is backing away.
- When shooting on a reflective natural background such as at the beach or when skiing.
- When shooting objects under a spotlight.
- When zooming.

When the subject is close, keep the iris locked. Even when the subject moves away from you, the image will not darken or brighten.

Before the following steps, perform steps 1 and 2 of "Exposure Control".

- 3 Adjust zoom so that the subject fills the LCD monitor or the viewfinder, then press and hold the **MENU** wheel for over 2 seconds. The exposure control indicator and "L" appear. Press the **MENU** wheel. "L" changes to "L" and the iris is locked.



To Return To Automatic Iris Control . . .

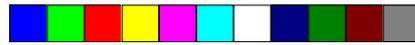
.... press **EXPOSURE** so that the exposure control indicator and "L" disappear. Or, set the Power Switch to "A".

To Lock The Exposure Control And The Iris . . .

.... after step 2 of "Exposure Control", adjust the exposure rotating the **MENU** wheel. Then lock the iris in step 3 of "Iris Lock". For automatic locking, press **EXPOSURE** again in step 2. The iris becomes automatic after about 2 seconds.

Iris

Like the pupil of the human eye, it contracts in well-lit environments to keep too much light from entering, and dilates in dim environments to allow in more light.



White Balance Adjustment

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

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

- 1** Set the Power Switch to "M" while pressing down the Lock Button located on the switch, then pull out the viewfinder fully or open the LCD monitor fully.
- 2** Press the MENU wheel. The Menu Screen appears.
- 3** Rotate the MENU wheel to select "MWB", then press it. The W.BALANCE Menu appears.
- 4** Rotate the the MENU wheel to select the desired mode.

"AUTO"	– White balance is adjusted automatically (factory preset).
"MWB"	– White balance is set manually.
"FINE"	– Outdoors on a sunny day.
"CLOUD"	– Outdoors on a cloudy day.
"HALOGEN"	– A video light or similar type of lighting is used.
- 5** Press the MENU wheel. Selection is complete. Press the MENU wheel again. The Menu Screen closes and the selected mode indicator except "AUTO" appears.

To Return To Automatic White Balance . . .

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

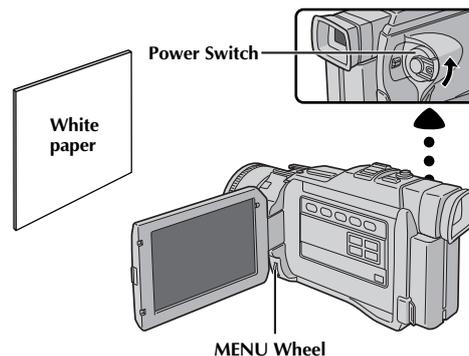
NOTE:

White balance cannot be used when Sepia or Monotone (pg. 37) is activated.

Manual White Balance Operation

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

- 1** Follow steps 1 through 4 of the white balance adjustment, and select "MWB".
- 2** Hold a sheet of plain white paper in front of the subject. Adjust zoom or position yourself so that the white paper fills the screen.
- 3** Press the MENU wheel until MWB begins blinking rapidly. When the setting is completed, MWB stops blinking.
- 4** Press the MENU wheel. The Menu Screen closes and the Manual White Balance indicator MWB is displayed.



To Change The Tint For Recording . . .

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

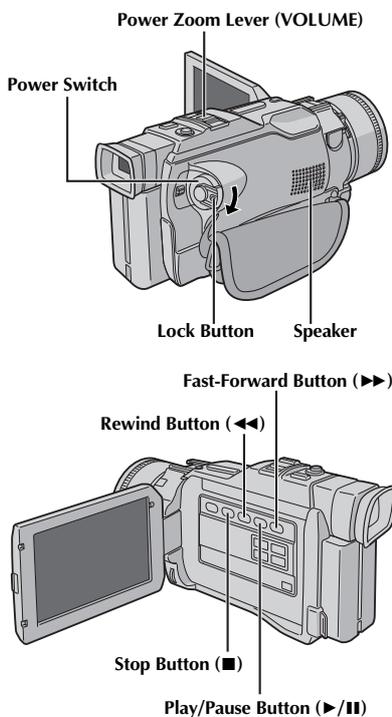
NOTES:

- In step 2, it may be difficult to focus on the white paper. In such a case, adjust focus manually (pg. 27).
- A subject can be shot under various types of lighting conditions indoors (natural, fluorescent, candlelight, etc.). Because the color temperature is different depending on the light source, the subject tint will differ depending on the white balance settings. Use this function for a more natural result.
- Once you adjust white balance manually, the setting is retained even if the power is turned off or the battery removed.



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PLAYBACK Basic Playback For Video



1 Load a tape (☞ pg. 12).

2 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch. To start playback, press ▶/||.

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

To Control The Speaker Volume . . .

... slide the Power Zoom Lever (VOLUME) towards "+" to turn up the volume, or towards "-" to turn down the volume.

NOTES:

- If Stop mode continues for 5 minutes when power is supplied from a battery, the camcorder shuts off automatically. To turn on again, set the Power Switch to "OFF", then to "PLAY".
- The playback picture can be viewed in the LCD monitor, viewfinder or on a connected TV (☞ pg. 54).
- You can also view the playback picture on the LCD monitor with it flipped over and pushed against the camera body.
- LCD monitor/viewfinder indications:
 - When power is supplied from a battery: the "☐" battery pack remaining power indicator is displayed. When power is supplied through the DC cord: "☐" does not appear.
 - During Stop mode, none of the indications are displayed.
- When a cable is connected to the AV connector, the sound is not heard from the speaker.

Still Playback: Pauses during playback.

- 1) Press ▶/|| during playback.
 - 2) To resume normal playback, press ▶/|| again.
- If still playback continues for more than about 3 minutes, the camcorder's Stop mode is automatically engaged. After 5 minutes in the Stop mode, the camcorder's power is automatically turned off.
 - When ▶/|| is pressed, the image may not pause immediately while the camcorder stabilizes the still image.

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

- 1) Press ▶▶ for forward or ◀◀ for reverse search during playback.
 - 2) To resume normal playback, press ▶/||.
- During playback, press and hold ◀◀ or ▶▶. The search continues as long as you hold the button. Once you release it, normal playback resumes.
 - A slight mosaic effect appears on screen during Shuttle Search. This is not a malfunction.

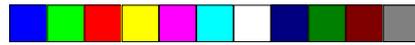
Frame-By-Frame Playback: Allows frame-by-frame search.

- 1) Engage Still Playback.
 - 2) Rotate the MENU wheel towards "+" for forward Frame-By-Frame Playback, or towards "-" for reverse Frame-By-Frame Playback during Still Playback.
- To resume normal playback, press ▶/||.
 - You can also use the provided remote control for Frame-By-Frame Playback (☞ pg. 63).

Slow-Motion Playback, Playback Zoom and Playback Special Effects

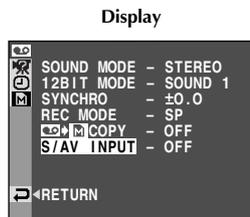
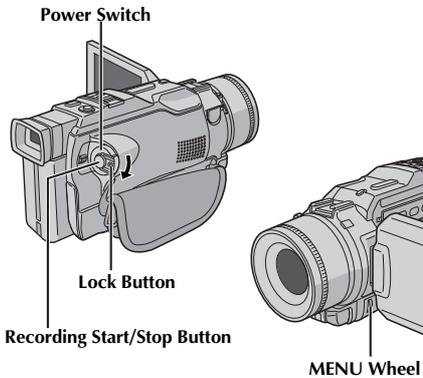
Available only with the remote control (provided) (☞ pg. 63, 64).





PLAYBACK Advanced Features For Video

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Menu Screen

Using Menus For Detailed Adjustment

The following procedure applies to all except *Synchro Comp* (☞ pg. 69, 70).

- 1 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
- 2 Press the MENU wheel. The Menu Screen appears.
- 3 Rotate the MENU wheel to select the desired function menu, and press it. The selected function menu appears.
- 4 Rotate the MENU wheel to select the desired function, and press it to display the Sub Menu.
- 5 Rotate the MENU wheel to select the desired parameter and press it. Selection is complete.
- 6 Rotate the MENU wheel to select "◀RETURN" and press it twice to close the Menu Screen.

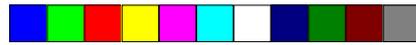
NOTES:

- It is also possible to change the ON SCREEN settings by pressing **DISPLAY** on the remote control (provided).
- "REC MODE" can be set when the Power Switch is set to "PLAY" or "M" (☞ pg. 15, 29).
- When "S/AV INPUT" is set to "ON", camcorder playback cannot be viewed on the AV output.

VIDEO	SOUND MODE	☞ pg. 42.
	12BIT MODE	☞ pg. 42.
	SYNCHRO	☞ pg. 70.
	REC MODE	Allows you to set the video recording mode (SP or LP) depending on your preference (☞ pg. 15). It is recommended you use "REC MODE" in the "VIDEO" Menu when using this camcorder as a recorder during dubbing (☞ pg. 58, 59).
	COPY	ON: Enables dubbing of images recorded on a tape to a memory card (☞ pg. 60). OFF: Enables snapshots to be taken during video playback.
	S/AV INPUT	ON: Enables audio/video signal input from the AV and S-VIDEO connectors (☞ pg. 58). OFF: Enables audio/video signal output to a TV, VCR, etc. via the AV and S-VIDEO connectors (☞ pg. 54, 58).
SYSTEM	BEEP*	Makes a beep or melody sound/activates the shutter sound effect.
	TALLY*	Turns on/off the tally lamp.
	DEMO MODE*	Starts automatic demonstration.
	MIC IND.*	Turns on/off the Microphone Level Indicator.
	COLOR BAR*	Makes color bars appear/disappear.
DISPLAY	ON SCREEN*	Makes the camcorder's indications appear/disappear from the connected TV screen.
	DATE/TIME*	Makes the date/time appear/disappear on the camcorder.
	TIME CODE*	Makes the time code appear/disappear on the camcorder.

* Each setting is linked with "DISPLAY" or "SYSTEM", which appears when the Power Switch is set to "M" (☞ pg. 30, 31). The parameters are the same as in the description on pg. 30, 31.





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PLAYBACK Advanced Features For Video (cont.)

Playback Sound

During video playback, the camcorder detects the sound mode in which the recording was made, and plays the sound back. Select the type of sound to accompany your playback picture. According to the menu access explanation on pg. 41, select "SOUND MODE" or "12BIT MODE" from the Menu Screen and set it to the desired parameter.

SOUND MODE	STEREO	Sound is output on both "L" and "R" channels in stereo.
	SOUND L	Sound from the "L" channel is output in stereo.
	SOUND R	Sound from the "R" channel is output in stereo.
12BIT MODE	SOUND 1	Original sound is output on both "L" and "R" channels in stereo.
	SOUND 2	Dubbed sound is output on both "L" and "R" channels in stereo.
	MIX	Original and dubbed sounds are combined and output in stereo on both "L" and "R" channels in stereo.

 : Factory-preset

NOTES:

- The "SOUND MODE" setting is available for both 12-bit and 16-bit sound. (In previous models' functions, "12-bit" is called "32 kHz" and "16-bit" is called "48 kHz".)
- The camcorder cannot detect the sound mode in which the recording was made during fast-forward or rewind. During playback the sound mode is displayed in the upper left corner.

Display

ON SCREEN setting:
For playback sound, tape speed and tape running.

12BIT/SOUND1 SP ▶

DATE/TIME setting:
For date/time.

DEC 25 '00
5:30 PM

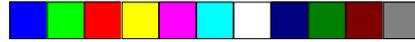
TIME CODE setting:
For time code.

12:34:24

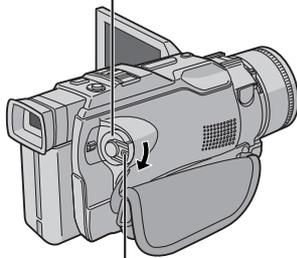
Minutes Seconds Frames*

*30 frames = 1 second



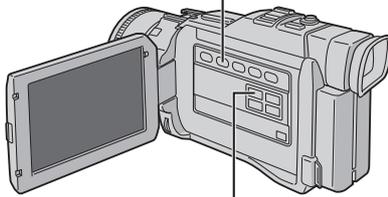


Power Switch



Lock Button

Stop Button (■)



BLANK SEARCH Button

Display



Blank Search

Helps you find where you should start recording in the middle of a tape to avoid time code interruption (pg. 23).

- 1** Load a tape (pg. 12) and set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
- 2** Press **BLANK SEARCH**.
 - "BLANK SEARCH" appears blinking and the camcorder automatically starts reverse or forward shuttle search, then stops at the spot which is about 3 seconds of tape before the beginning of the detected blank portion.

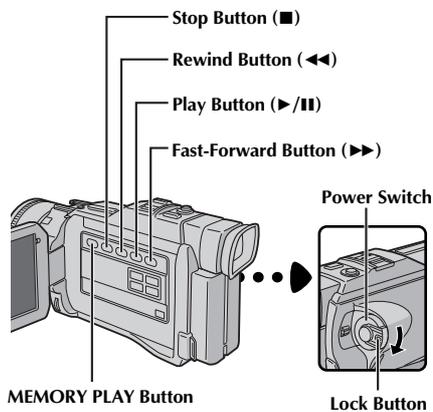
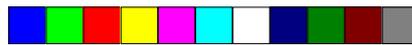
To cancel Blank Search midway . . .

.... press ■.

NOTES:

- In step 2, if the current position is at a blank portion the camcorder searches in the reverse direction, and if the current position is at a recorded portion the camcorder searches in the forward direction.
- Blank Search does not work if "HEAD CLEANING REQUIRED. USE CLEANING CASSETTE" has appeared with the tape.
- If the beginning or end of the tape is reached during Blank Search, the camcorder stops automatically.
- A blank portion which is shorter than 5 seconds of tape cannot be detected.
- The detected blank portion may be located between recorded scenes. Before you start recording, make sure there is no recorded scene after the blank portion.



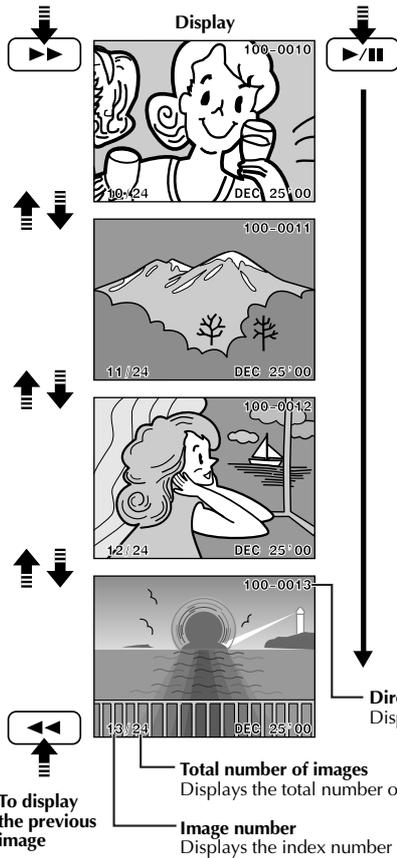


Normal Playback

Images shot with the camcorder are automatically numbered, then stored in numerical order in the memory card. You can view the stored images, one at a time, much like flipping through a photo album.

- 1 Load a memory card (☞ pg. 13).
- 2 Set the Power Switch to "PLAY" while pressing down the Lock Button. Open the LCD monitor fully or pull out the viewfinder fully.
- 3 Press **MEMORY PLAY**.
 - A stored image is displayed.
- 4 Press ▶▶ to display the next image.
Press ◀◀ to display the previous image.

[For Normal Playback] To display the next image [For Auto Playback]



Auto Playback

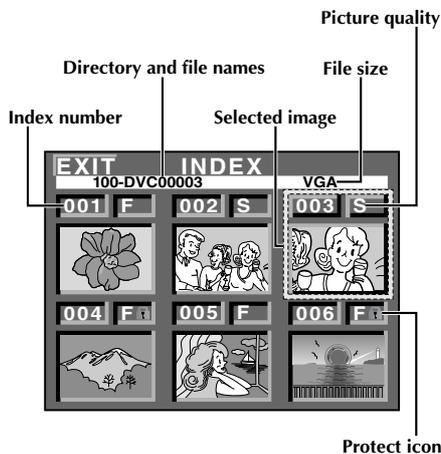
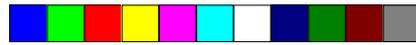
You can run through all the images stored in memory automatically.

- 1 Perform steps 1 through 3 above.
- 2 Press ▶/||.
 - If you press ◀◀ during Auto Playback, images are displayed in descending order.
 - If you press ▶▶ during Auto Playback, images are displayed in ascending order.
- 3 To end Auto Playback, press ■.

NOTE:

Even if you shoot a new image after playing back a low-numbered one, this will not overwrite an existing image, because new images are automatically stored after the last-recorded one.





INDEX Screen

The images you shot can be displayed together with their index information. Convenient for checking images shot beforehand, the INDEX Screen also shows the Picture quality, directory and file names as well as which images are protected against accidental erasure.

100-DVC00003: Directory and File names

Shows that the selected shot is in a directory called "100" and its file name is "DVC00003".

Each time shooting takes place, a file name is made using a number which is larger by one than the largest number of the file names which are in use. If the file name reaches DVC09999, a new directory will be made and the file name will start again from DVC00001.

In the playback screen (pg. 44), the directory and only the last four digits of the file name are displayed.

VGA: File size

Displays the file size of the stored image. There are 3 modes available: UXGA, XGA and VGA (pg. 16).

001: Index number

Index numbers are marked from 001. For example, when 10 images are stored (index number: 001 to 010), if three images with index numbers 002, 004 and 006 are deleted from memory, the remaining images are automatically moved up to fill any gaps in the numerical sequence. Therefore, the number of remaining images is 7, and the new index numbers range from 001 to 007.

F/S: Picture Quality

Displays the quality of the stored image. There are 2 modes available: FINE and STANDARD (in order of quality) (pg. 16).

Protect icon

When an image is protected against its accidental erasure, a padlock mark appears next to the Picture Quality indicator, and that image cannot be deleted.

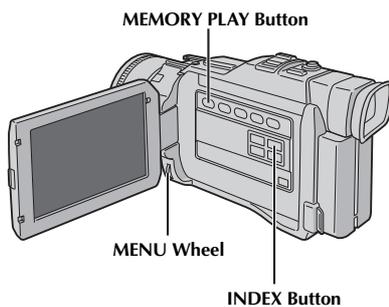
Selected Image

An image is framed in green when it is selected. Rotate the MENU wheel to move the green frame to the desired image.

Index Playback

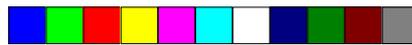
You can view the images stored in memory six at a time. Use this mode when looking for an image you wish to view.

- 1** Perform steps 1 through 3 of "Normal Playback" on pg. 44.
- 2** To access the INDEX Screen, press **INDEX**.
- 3** Rotate the **MENU** wheel to move the green frame to the desired image and press it. The image selected in the INDEX Screen is displayed.



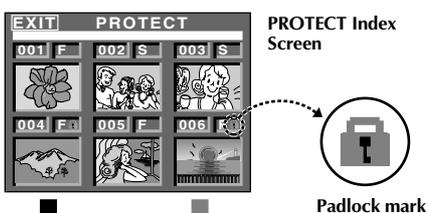
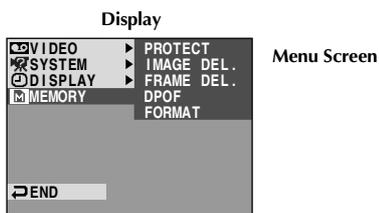
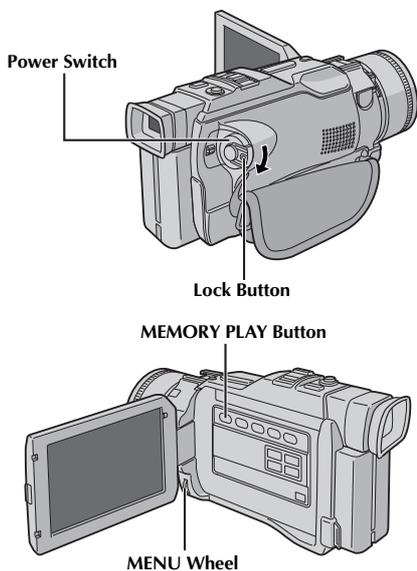
Playback Screen





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PLAYBACK Advanced Features For D.S.C.



Normal playback

If Protection is removed



Normal playback

Protecting Images

The Protect mode helps prevent the accidental erasure of images. When a padlock mark is displayed next to the Picture Quality indication, that image cannot be deleted.

- 1 Set the Power Switch to "PLAY" while pressing down the Lock Button. Open the LCD monitor fully or pull out the viewfinder fully.
- 2 Press MEMORY PLAY.
 - A stored image is displayed.
- 3 Press the MENU wheel. The Menu Screen appears. Press the MENU wheel again. The MEMORY Menu appears.
- 4 Rotate the MENU wheel to select "PROTECT" and press it. The PROTECT Index Screen appears.

TO PROTECT AN IMAGE

Before doing the following, perform steps 1 through 4 above.

- 5 Rotate the MENU wheel to move the green frame to the desired image and press it. A "🔒" padlock mark appears on the selected image. Repeat this procedure for all images you do not wish to delete by accident.
- 6 Rotate the MENU wheel upward to select "EXIT" and press it. The normal playback screen appears.

NOTE:

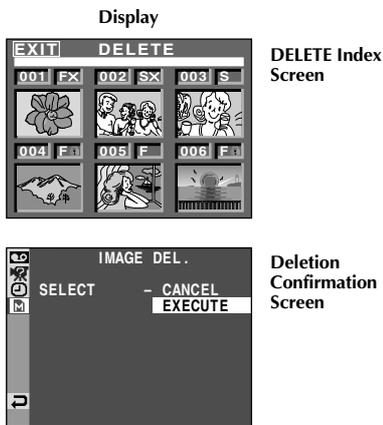
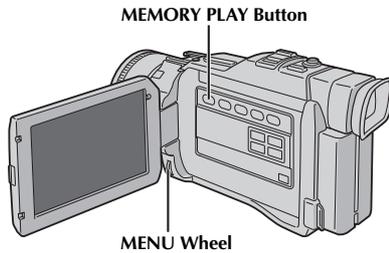
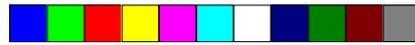
When the memory is initialized or corrupted, even protected images are deleted. If you do not want to lose important images, transfer them to a PC and save them.

TO REMOVE PROTECTION

Before doing the following, perform steps 1 through 4 above.

- 5 Rotate the MENU wheel to move the green frame to the desired image and press it. The "🔒" padlock mark located above the image disappears and the image is no longer protected. Repeat this procedure for all images from which you wish to remove protection.
- 6 Rotate the MENU wheel upward to select "EXIT" and press it. The normal playback screen appears.



**CAUTION:**

Do not remove the memory card or perform any other operation (such as turning off the camcorder) during deletion. Also, be sure to use the provided AC Power Adapter/Charger, as the memory card may be corrupted if the battery becomes exhausted during deletion. If the memory card becomes corrupted, initialize it. (pg. 49)

NOTES:

- Protected images (pg. 46) cannot be deleted with the above operation. To delete them, remove protection first.
- Once images are deleted, they cannot be restored. Check images before deleting.

Deleting Images

Previously shot images can be deleted either one at a time or all at once.

- 1 Perform steps 1 through 3 of "Protecting Images" on pg. 46.
- 2 Rotate the **MENU** wheel to select "IMAGE DEL." and press it. The Sub Menu appears.

TO DELETE THE DISPLAYED IMAGE

Before doing the following, perform steps 1 and 2 above.

- 3 Rotate the **MENU** wheel to select "CURRENT" and press it. The Deletion Confirmation Screen appears.
- 4 Rotate the **MENU** wheel to select "EXECUTE" and press it. The currently displayed image is deleted.
 - To cancel deletion, rotate the **MENU** wheel to select "CANCEL" and press it.

TO SELECT AN IMAGE BY BROWSING IMAGES STORED IN MEMORY

Before doing the following, perform steps 1 and 2 above.

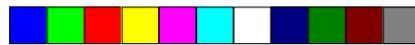
- 3 Rotate the **MENU** wheel to select "SELECT" and press it. The DELETE Index Screen appears.
- 4 Rotate the **MENU** wheel to move the green frame to the desired image that you wish to delete and press it. An "X" appears above the selected image. Repeat this procedure for all images that you wish to delete.
 - To deselect an image, press the **MENU** wheel again. The "X" disappears.
- 5 Rotate the **MENU** wheel upward to select "EXIT" and press it. The Deletion Confirmation Screen appears.
- 6 Rotate the **MENU** wheel to select "EXECUTE" and press it. The selected images are deleted and the normal playback screen appears.
 - To cancel deletion, rotate the **MENU** wheel to select "CANCEL" and press it.

TO DELETE ALL IMAGES

Before doing the following, perform steps 1 and 2 above.

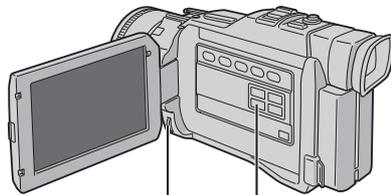
- 3 Rotate the **MENU** wheel to select "ALL" and press it. The Deletion Confirmation Screen appears.
- 4 Rotate the **MENU** wheel to select "EXECUTE" and press it. All the images are deleted.
 - To cancel deletion, rotate the **MENU** wheel to select "CANCEL" and press it.





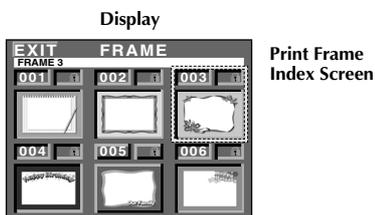
48_{EN}

PLAYBACK Advanced Features For D.S.C. (cont.)



MENU Wheel

PRINT FRAME Button



Superimposing A Print Frame

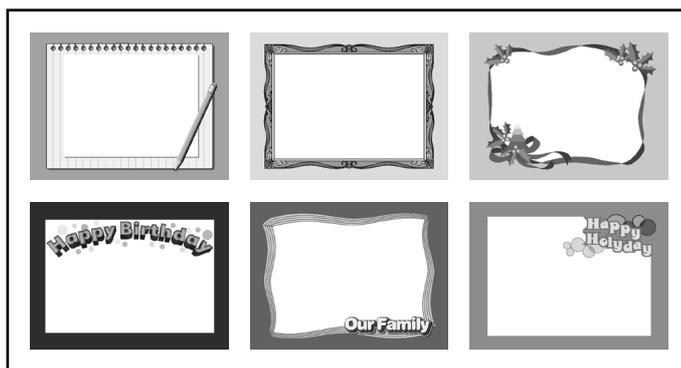
A selection of print frames are stored in the camcorder. A frame can be superimposed over a still image.

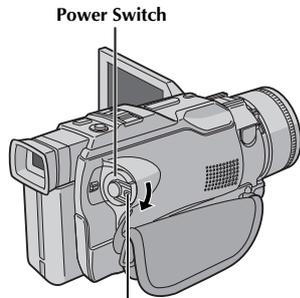
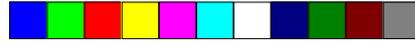
- 1 Play back an image stored in the memory card.
- 2 Press **PRINT FRAME**. The Print Frame Index Screen appears.
- 3 Rotate the **MENU** wheel to move the green frame to the desired print frame and press it. Selection is complete. The selected print frame is superimposed over the still image.

To Make The Print Frame Disappear . . .
.... press **PRINT FRAME**.

NOTES:

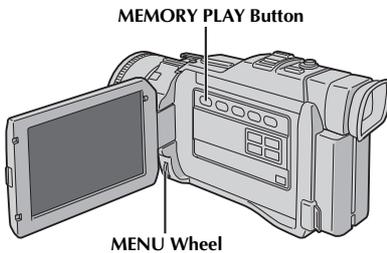
- A print frame created on a PC can be transferred to a memory card using the provided software. Transferred print frames are displayed from print frame index number 007, and they can be used together with the print frames in the camcorder's memory. For details on creating/transferring print frames, refer to the software instructions.
- Depending on the images you play back, the print frame outline may become grainy or vague.





Power Switch

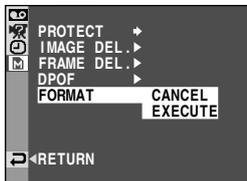
Lock Button



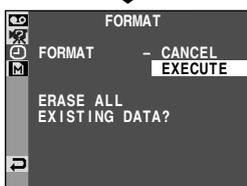
MEMORY PLAY Button

MENU Wheel

Display



Menu Screen



Initializing A Memory Card

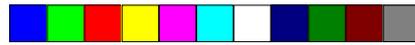
You can initialize a memory card anytime. **After initializing, all images and data stored in the memory card, including those which have been protected, are cleared.**

- 1** Set the Power Switch to "PLAY", while pressing down the Lock Button located on the switch. Open the LCD monitor fully or pull out the viewfinder fully.
- 2** Press MEMORY PLAY.
- 3** Press the MENU wheel. The Menu Screen appears.
- 4** Press the MENU wheel again. The MEMORY Menu appears.
- 5** Rotate the MENU wheel to select "FORMAT" and press it. The Confirmation Screen appears.
- 6** Rotate the MENU wheel to select "EXECUTE" and press it. The memory card is initialized. When initialization is finished, "NO IMAGES STORED" appears.
 - To cancel initialization, rotate the MENU wheel to select "CANCEL" and press it.

CAUTION:

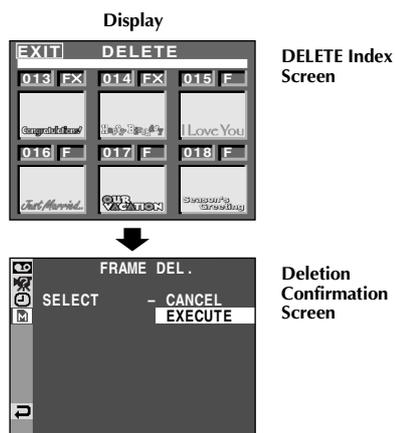
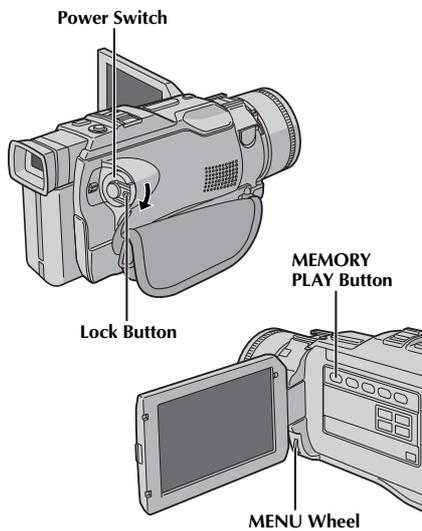
Do not perform any other operation (such as turning off the camcorder) during initialization. Also, be sure to use the provided AC Power Adapter/Charger, as the memory card may be corrupted if the battery becomes exhausted during initialization. If the memory card becomes corrupted initialize it.





50_{EN}

PLAYBACK Advanced Features For D.S.C. (cont.)



Print Frame Deletion

A print frame created on a PC can be transferred to a memory card using the provided software. Print frames that have been transferred to a memory card can be deleted when they are no longer needed.

There are 2 ways of deleting previously created print frames: by browsing through print frames individually or by deleting them all at once.

TO SELECT A PRINT FRAME BY BROWSING PRINT FRAMES STORED IN MEMORY

- 1 Set the Power Switch to "PLAY", while pressing down the Lock Button located on the switch. Open the LCD monitor fully or pull out the viewfinder fully.
- 2 Press MEMORY PLAY.
- 3 Press the MENU wheel. The Menu Screen appears.
- 4 Press the MENU wheel again. The MEMORY Menu appears.
- 5 Rotate the MENU wheel to select "FRAME DEL." and press it. The Sub Menu appears.
- 6 Rotate the MENU wheel to select "SELECT" and press it. The DELETED Index Screen appears.
- 7 Rotate the MENU wheel to move the green frame to the desired print frame that you wish to delete and press it. An "X" appears above the selected print frame. Repeat this procedure for all print frames that you wish to delete.
To deselect a print frame, press the MENU wheel again. The "X" disappears.
- 8 Rotate the MENU wheel upward to select "EXIT" and press it. The Deletion Confirmation Screen appears.
- 9 Rotate the MENU wheel to select "EXECUTE" and press it. The selected print frames are deleted and the normal playback screen appears.
 - To cancel deletion, rotate the MENU wheel to select "CANCEL" and press it.

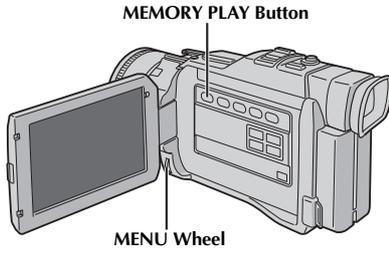
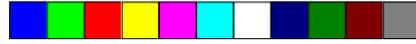
CAUTION:

Do not remove the memory card or perform any other operation (such as turning off the camcorder) during deletion. Also, be sure to use the provided AC Power Adapter/Charger, as the memory card may be corrupted if the battery becomes exhausted during deletion. If the memory card becomes corrupted, initialize it. (pg. 49)

NOTES:

- If print frames created on a PC have not been transferred to a memory card, it is not possible to delete them using these steps.
- The print frames in the camcorder's memory cannot be deleted.

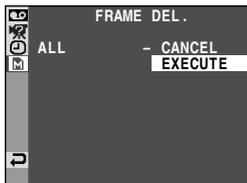


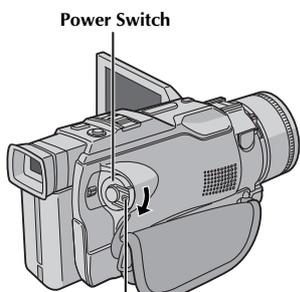
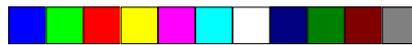


TO DELETE ALL PRINT FRAMES

- 1 Perform steps 1 through 5 on pag. 50.
- 2 Rotate the **MENU** wheel to select "ALL" and press it. The Deletion Confirmation Screen appears.
- 3 Rotate the **MENU** wheel to select "EXECUTE" and press it. All the print frames are deleted.
 - To cancel deletion, rotate the **MENU** wheel to select "CANCEL" and press it.

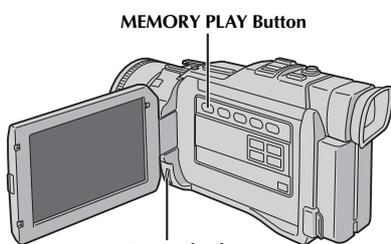
Display





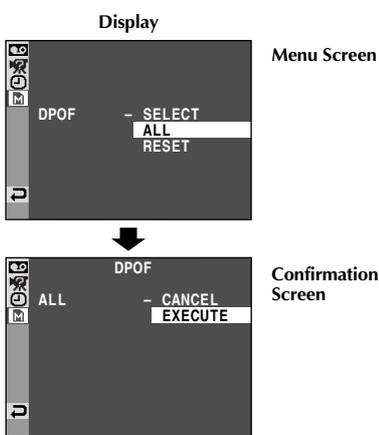
Power Switch

Lock Button



MEMORY PLAY Button

MENU Wheel



Setting Print Information (DPOF Setting)

This camcorder is compatible with the DPOF (Digital Print Order Format) standard in order to support future systems such as automatic printing, which records information about the still images you wish to print (such as the number of prints to make). There are 2 print information settings available: "To print all still images (one print for each)" explained below and "To print by selecting still images and no. of prints" (☞ pg. 53).

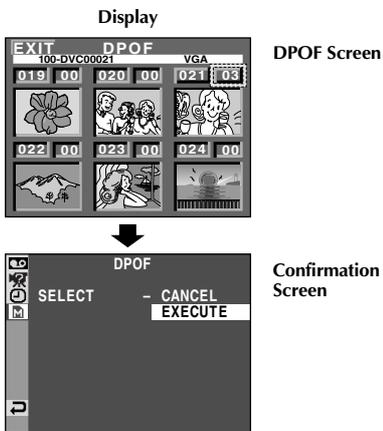
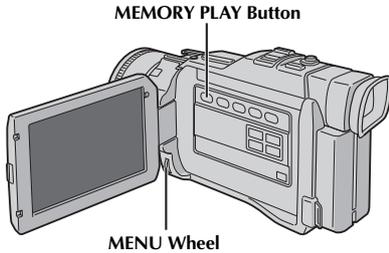
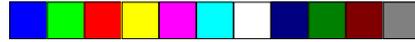
TO PRINT ALL STILL IMAGES (ONE PRINT FOR EACH)

- 1** Set the Power Switch to "PLAY", while pressing down the Lock Button located on the switch. Open the LCD monitor fully or pull out the viewfinder fully.
- 2** Press MEMORY PLAY.
- 3** Press the MENU wheel. The Menu Screen appears.
- 4** Press the MENU wheel again. The MEMORY Menu appears.
- 5** Rotate the MENU wheel to select "DPOF" and press it. The Sub Menu appears.
- 6** Rotate the MENU wheel to select "ALL" and press it. Selection is complete. The Confirmation Screen appears.
- 7** Rotate the MENU wheel to select "EXECUTE" and press it. The normal playback screen appears.
 - To cancel selection, rotate the MENU wheel to select "CANCEL" and press it.

To Reset The Setting . . .

.... select "RESET" in step 6. The setting is reset to 0 for all still images.





TO PRINT BY SELECTING STILL IMAGES AND NO. OF PRINTS

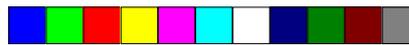
- 1 Perform steps 1 through 5 on pg. 52.
2 Rotate the MENU wheel to select "SELECT" and press it. Selection is complete. The DPOF Screen appears.
3 Rotate the MENU wheel to move the green frame to the image you wish to print and press it.
4 Select the number of prints by rotating the MENU wheel towards "+" to increase the number, or towards "-" to decrease the number and press it. Repeat steps 3 and 4 for the desired number of prints.
5 Rotate the MENU wheel upward to select "EXIT" and press it. Selection is complete. The Confirmation Screen appears.
6 Rotate the MENU wheel to select "EXECUTE" and press it. The normal playback screen appears.

To Reset The No. Of Prints . . .
.... select "RESET" in step 6 on pg. 52. The number of prints is reset to 0 for all still images.

CAUTION:
While performing the above, never disconnect power, as this may cause the memory to be corrupted. For safety, all buttons including the Power Switch are disabled in step 5.

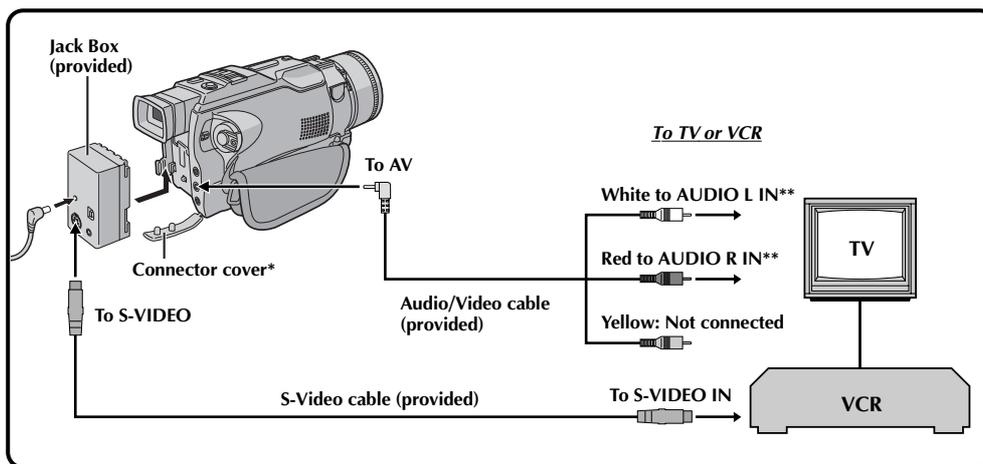
- NOTES:
• If you load a memory card already set as shown above in a printer compatible with DPOF, it will make prints of the selected still images automatically.
• To print images recorded on a tape, first dub them to a memory card (pg. 60).





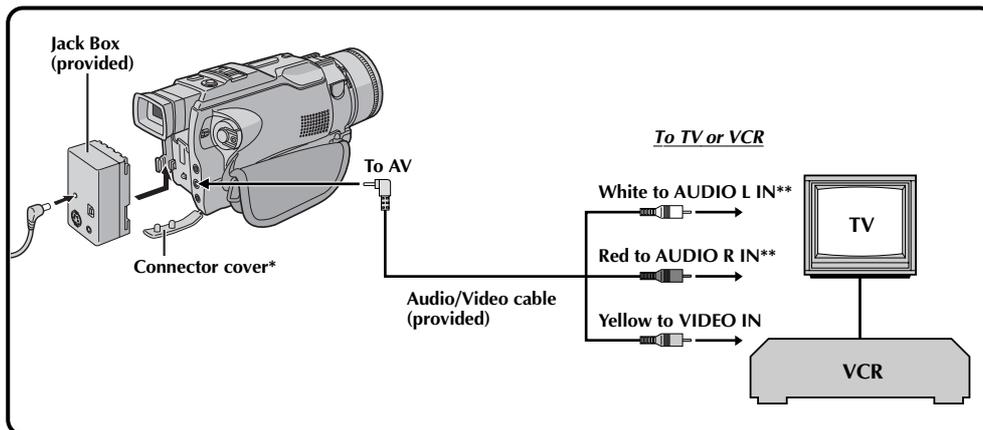
These are some basic types of connections. When making the connections, refer also to your VCR and TV instruction manuals.

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



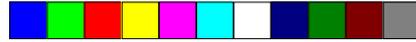
* When connecting the cables, open this cover.
 ** The Audio cable is not required for watching still images only .

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



* When connecting the cables, open this cover.
 ** The Audio cable is not required for watching still images only .





- 1** Make sure all units are turned off.
- 2** Connect the camcorder to a TV or VCR as shown in the illustration (☞ pg. 54).
If using a VCR . . . go to step 3.
If not . . . go to step 4.
- 3** Connect the VCR output to the TV input, referring to your VCR's instruction manual.
- 4** Turn on the camcorder, the VCR and the TV.
- 5** Set the VCR to its AUX input mode, and set the TV to its VIDEO mode.

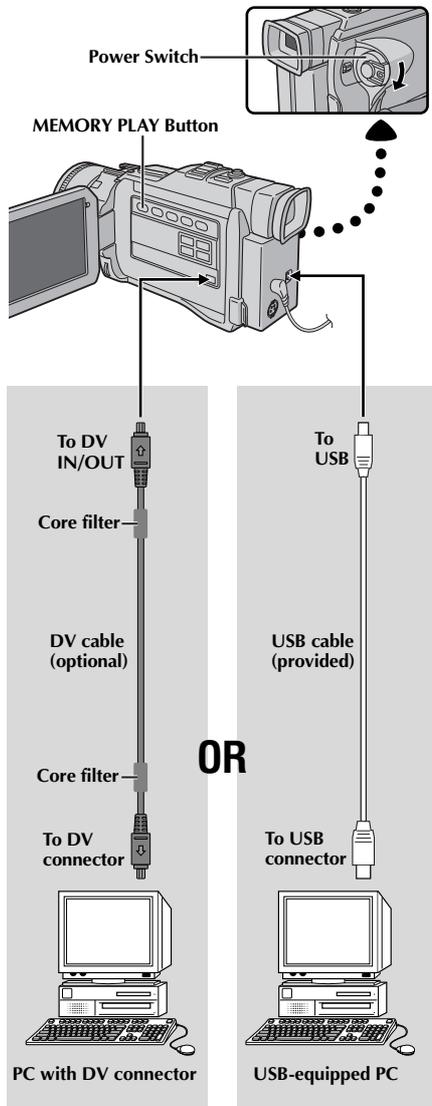
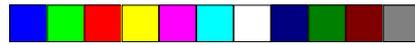
To choose whether or not the following displays appear on the connected TV . . .

- Date/Time
..... set "DATE/TIME" to "AUTO", "ON" or "OFF" in the Menu Screen (☞ pg. 41).
- Time Code
..... set "TIME CODE" to "ON" or "OFF" in the Menu Screen (☞ pg. 41).
- Playback Sound Mode, Tape Speed And Tape Running Displays for video playback
Or
Directory/File Names and Image Number/Total Number of Images for D.S.C. Playback
..... set "ON SCREEN" to "LCD" or "LCD/TV" in the Menu Screen (☞ pg. 41).
Or, press **DISPLAY** on the remote control.

NOTES:

- **It is recommended to use the AC Power Adapter/Charger as the power supply instead of the battery pack (☞ pg. 9).**
- *To monitor the picture and sound from the camcorder without inserting a tape or memory card, set the camcorder's Power Switch to "A" or "M", then set your TV to the appropriate input mode.*
- *Make sure you adjust the TV sound volume to its minimum level to avoid a sudden burst of sound when the camcorder is turned on.*
- *If you have a TV or speakers that are not specially shielded, do not place the speakers adjacent to the TV as interference will occur in the camcorder playback picture.*
- *If no image is displayed or no sound is heard from the TV, set "S/AV INPUT" to "OFF" in the Menu Screen (☞ pg. 41).*





Connection To A Personal Computer

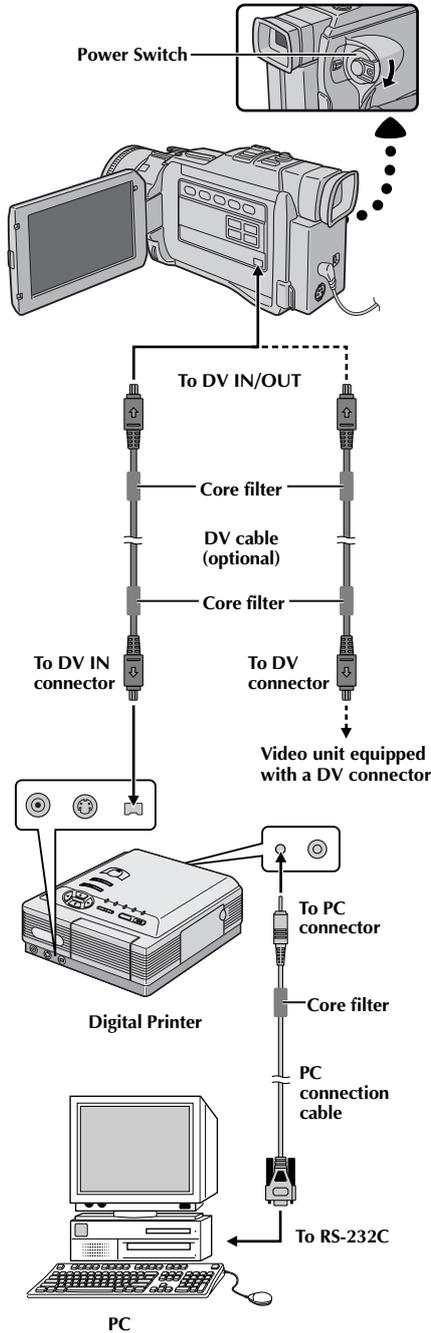
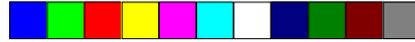
This camcorder can transfer still images to a PC via DV or USB connection as shown in the illustration.

- 1 Make sure the camcorder and PC are turned off.
- 2 Connect the camcorder to your PC using the appropriate cable as shown in the illustration.
- 3 Turn the camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch and turn on the PC.
If you have connected via the USB cable ... go to step 4.
- 4 Press **MEMORY PLAY**.
 - "USB MODE ACCESSING FILE" appears on the LCD monitor.
 - If the PC connected to the camcorder via the USB cable is not powered, the camcorder does not enter the USB mode.
- 5 When finished, turn off the PC first, then the camcorder.

NOTES:

- It is recommended to use the AC Power Adapter/Charger as the power supply instead of the battery pack (pg. 9).
- Never connect the USB cable and the DV cable simultaneously to the camcorder. Connect only the cable you wish to use to the camcorder.
- The date/time information cannot be captured into the PC.
- Refer to the instruction manuals of the PC and provided Software.
- The still images can also be transferred to a PC with a DV connector-equipped capture board.
- When using a DV cable, be sure to use the optional JVC VC-VDV206U or VC-VDV204U DV cable depending on the type of DV connector (4 or 6 pins) on the PC, or use the DV cable provided with the capture board.

Never disconnect the USB cable while "ACCESSING FILE" is displayed on the LCD monitor since this can result in product damage.



Connection To A Video Unit Equipped With A DV Connector

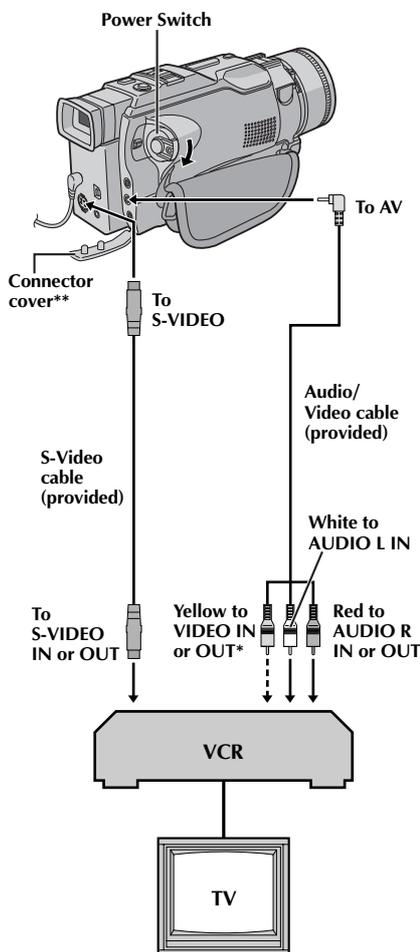
Connection to the GV-DT3 Digital Printer (optional) allows you to print out images or transfer them to a PC. It is also possible to copy recorded scenes from the camcorder onto another video unit equipped with a DV connector. This function is called Digital Dubbing (pg. 59), which offers virtually no image or sound deterioration.

- 1 Make sure all units are turned off.
- 2 Make connections to the device you want to connect to using a DV cable, as shown in the illustration.
- 3 If necessary, connect the PC connection cable (provided with GV-DT3) to the printer's PC connector and the PC's RS-232C connector.
- 4 Turn the camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch and turn on the other units.

NOTES:

- It is recommended to use the AC Power Adapter/Charger as the power supply instead of the battery pack (pg. 9).
- For Digital Dubbing, this camcorder can be connected only to one device at a time. This camcorder can also be used as a recorder (pg. 59).
- If Still Playback, Slow-Motion Playback, Fast-Forward or Rewind is attempted with the camcorder connected to a video unit via the DV connector, the image will take on an effect similar to a colored mosaic pattern or it will become black.
- Also refer to the instruction manuals of the connected units.
- When using a DV cable, be sure to use the optional JVC VC-VDV204U DV cable.





- * Connect when an S-Video cable is not used.
 ** When connecting the cables, open this cover.

Dubbing To Or From A VCR

[To use this camcorder as a player]

- 1** Following the illustration, connect the camcorder and the VCR. Also refer to pg. 54 and 55.
- 2** Set the camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch, turn on the VCR's power, and insert the appropriate cassettes in the camcorder and the VCR.
- 3** Engage the VCR's AUX and Record-Pause modes.
- 4** Engage the camcorder's Play mode to find a spot just before the edit-in point. Once it is reached, press ►/|| on the camcorder.
- 5** Press ►/|| on the camcorder and engage the VCR's Record mode.
- 6** Engage the VCR's Record-Pause mode and press ►/|| on the camcorder.
- 7** Repeat steps 4 through 6 for additional editing, then stop the VCR and camcorder when finished.

NOTES:

- You can use Playback Zoom (☞ pg. 63) or Playback Special Effects (☞ pg. 64) in step 5.
- Before you start dubbing, make sure that the indications do not appear on the connected TV. If they do, they are being recorded onto the new tape.

To choose whether or not the following displays appear on the connected TV . . .

- Date/Time
 set "DATE/TIME" to "AUTO", "ON" or "OFF" in the Menu Screen (☞ pg. 41).
- Time Code
 set "TIME CODE" to "ON" or "OFF" in the Menu Screen (☞ pg. 41).
- Playback Sound Mode, Tape Speed And Tape Running Displays
 set "ON SCREEN" to "LCD" or "LCD/TV" in the Menu Screen (☞ pg. 41). Or, press **DISPLAY** on the remote control.

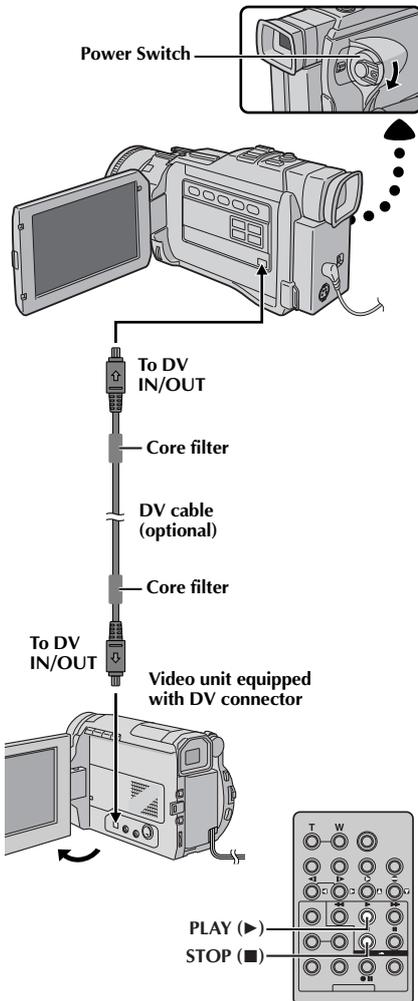
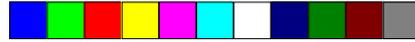
To Use This Camcorder As A Recorder . . .

1. Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
2. Set "S/AV INPUT" to "ON" and set "REC MODE" to "SP" or "LP" (☞ pg. 41).
3. Connect the cables as shown in the illustration and load a cassette to record on.
4. Press the Recording Start/Stop button to engage the Record-Pause mode. "AV.IN" appears on the screen.
5. Press the Recording Start/Stop button to start recording. ⏻ rotates.
6. Press the Recording Start/Stop button again to engage the Record-Pause mode. ⏻ stops rotating.

NOTES:

- After dubbing, set "S/AV INPUT" back to "OFF".
- Analog signals can be converted to digital signals with this procedure.
- It is also possible to dub from another camcorder.





Dubbing To Or From A Video Unit Equipped With A DV Connector (Digital Dubbing)

It is also possible to copy recorded scenes from the camcorder onto another video unit equipped with a DV connector. Since a digital signal is sent, there is little if any image or sound deterioration.

[To use this camcorder as a player]

- 1** Make sure all units are turned off. Connect the camcorder to a video unit equipped with a DV input connector using a DV cable as shown in the illustration.
- 2** Set the camcorder's Power Switch to "**PLAY**" while pressing down the Lock Button located on the switch, turn on the video unit's power, and insert the appropriate cassettes in the camcorder and the video unit.
- 3** Press ▶ to play back the source tape.
- 4** While watching the playback on the monitor, engage the DV connector-equipped video unit's record mode from the spot on the source tape you want to begin recording.

NOTES:

- **It is recommended to use the AC Power Adapter/Charger as the power supply instead of the battery pack** (☞ pg. 9).
- If the remote control is used when both the player and recorder are JVC video units, both units will perform the same operation. To prevent this from happening, press the buttons on both units.
- For Digital Dubbing, this camcorder can be connected only to one device at a time. This camcorder can also be used as a recorder.
- If a blank portion or disturbed image is played back on the player during dubbing, the dubbing may stop so that an unusual image is not dubbed.
- Even though the DV cable is connected correctly, sometimes the image may not appear in step 4. If this occurs, turn off the power and make connections again.
- If "Playback Zoom" (☞ pg. 63), "Playback Special Effects" (☞ pg. 64) or "Snapshot" is attempted during playback, only the original playback image recorded on the tape is output from the DV IN/OUT connector.
- **When using a DV cable, be sure to use the optional JVC VC-VDV204U DV cable.**

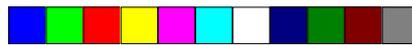
To Use This Camcorder As A Recorder . . .

1. Turn the Power Switch to "**PLAY**" while pressing down the Lock Button located on the switch.
2. Set "REC MODE" to "SP" or "LP" in the Menu Screen (☞ pg. 41).
3. Connect the DV cable as shown in the illustration and load a cassette to record on.
4. Press the Recording Start/Stop button to engage the Record-Pause mode. "**DV.IN**" appears on the screen.
5. Press the Recording Start/Stop button to start recording. ⚙ rotates.
6. Press the Recording Start/Stop button again to engage the Record-Pause mode. ⚙ stops rotating.

NOTES:

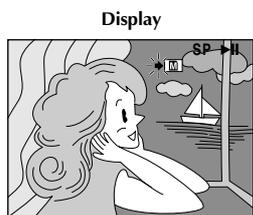
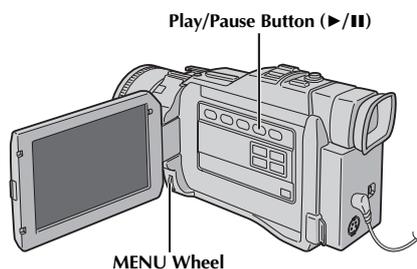
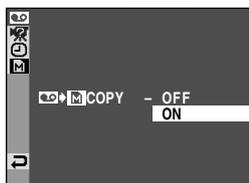
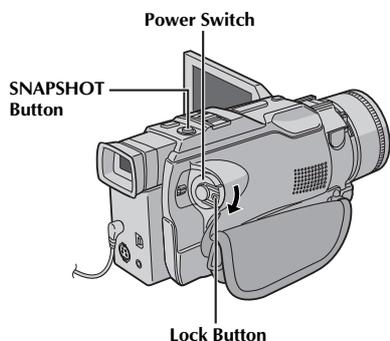
- Digital Dubbing is performed in the sound mode recorded on the original tape, regardless of the current "SOUND MODE" setting (☞ pg. 29).
- During Digital Dubbing, no signals are output from the AV connector.





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DUBBING (cont.)



Dubbing Images Recorded On A Tape To A Memory Card

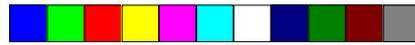
Images can be dubbed from a tape to a memory card.

- 1** Load a memory card (☞ pg. 13) and cassette (☞ pg. 12).
- 2** Set the Power Switch to "PLAY" while pressing down the Lock Button. Open the LCD monitor fully or pull out the viewfinder fully.
- 3** Press the MENU wheel. The Menu Screen appears. Rotate it to select "VIDEO" and press it. The VIDEO Menu appears.
- 4** Rotate the MENU wheel to select "COPY" and press it. The Sub Menu appears. Rotate it to select "ON" and press it. Selection is complete.
- 5** Rotate the MENU wheel to select "RETURN" and press it twice. The normal playback screen resumes.
- 6** To select a video image to be dubbed, start playback by pressing ▶/⏸. At the moment you find the image you wish to dub, press it again to engage Still Playback.
- 7** To start dubbing, press SNAPSHOT. The selected image is stored in the memory card.
 - "▶" blinks during dubbing.

NOTES:

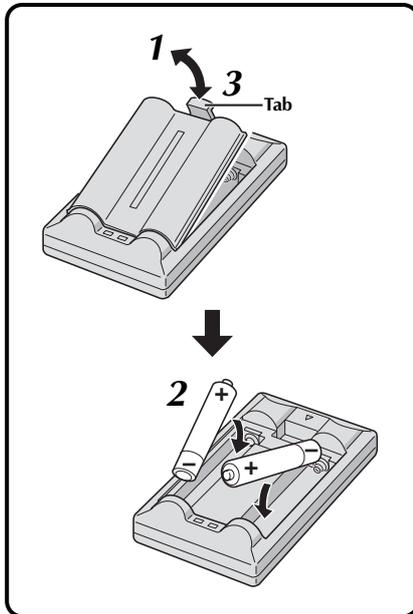
- If SNAPSHOT is pressed in step 7 when a memory card is not loaded, the message "COPYING FAILED" is displayed.
- If an image recorded on the tape using the WIDE mode (☞ pg. 30) is dubbed to a memory card, the WIDE mode identifying signal is not dubbed with it.
- To use Playback Special Effects with a video image you wish to dub, perform up to step 7 using the remote control (provided) (☞ pg. 64).
- Images are dubbed in VGA file size.





USING THE REMOTE CONTROL UNIT

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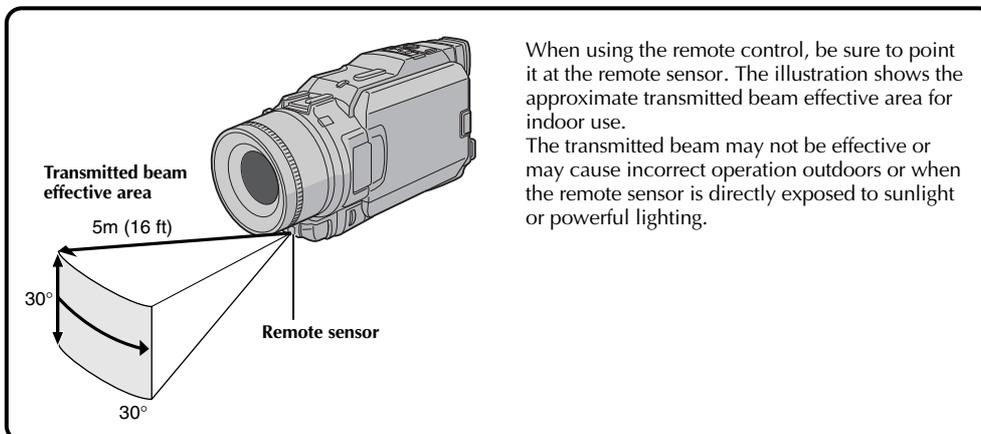


The Full-Function Remote Control Unit can operate this camcorder from a distance as well as the basic operations (Playback, Stop, Pause, Fast-Forward and Rewind) of your VCR. It also makes additional playback functions possible.

Installing The Batteries

The remote control uses two "AAA (R03)" size batteries. See "General Battery Precautions" (pg. 89).

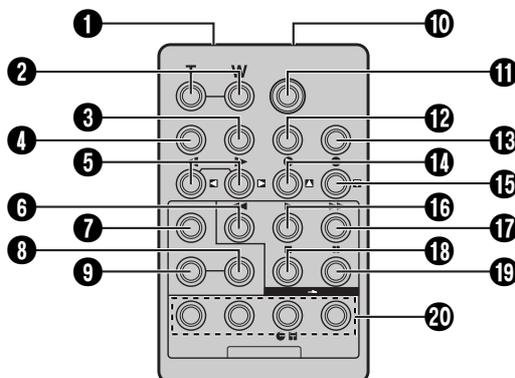
- 1 Remove the battery compartment cover while pushing up the tab as illustrated.
- 2 Insert two "AAA (R03)" size batteries in the correct direction.
- 3 Re-attach the battery compartment cover.



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

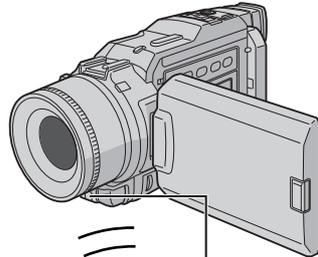
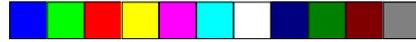
The transmitted beam may not be effective or may cause incorrect operation outdoors or when the remote sensor is directly exposed to sunlight or powerful lighting.



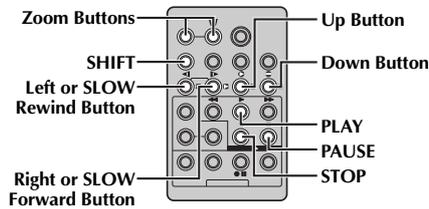


Buttons	Functions	
	With the camcorder's Power Switch set to the camera position ("A" or M).	With the camcorder's Power Switch set to "PLAY".
1 Infrared beam transmitting window	Transmits the beam signal.	
2 Zoom (T/W) Buttons	Zoom in/out (pg. 22)	Zoom in/out (pg. 63)
3 DISPLAY Button	—	pg. 66
4 SHIFT Button	—	pg. 63, 65
5 SLOW Rewind/Forward Buttons Left/Right Buttons	— —	pg. 63 pg. 63
6 REW Button	—	<ul style="list-style-type: none"> Rewind/Reverse Shuttle Search on the tape (pg. 40) Displays previous image in the memory card (pg. 44)
7 FADE/WIPE Button	—	pg. 67
8 EFFECT ON/OFF Button	—	pg. 64
9 EFFECT Button	—	pg. 64
10 PAUSE IN Connector	—	pg. 66
11 START/STOP Button	Functions the same as the Recording Start/Stop Button on the camcorder.	
12 MBR SET Button	—	pg. 65
13 SNAPSHOT Button	Functions the same as SNAPSHOT on the camcorder.	
14 Up Button INSERT Button	— —	pg. 63 pg. 72
15 Down Button A. DUB Button	— —	pg. 63 pg. 71
16 PLAY Button	—	<ul style="list-style-type: none"> Starts Playback of the tape (pg. 40) Starts Auto Playback of the memory card (pg. 44)
17 FF Button	—	<ul style="list-style-type: none"> Forward/Forward Shuttle Search on the tape (pg. 40) Displays next image in the memory card (pg. 44)
18 STOP Button	—	<ul style="list-style-type: none"> Stops the tape (pg. 40) Stops Auto Playback (pg. 44)
19 PAUSE Button	—	Pauses the tape (pg. 63)
20 R.A.EDIT Buttons	—	pg. 65 – 70





Remote sensor



Normal playback



Press T



To move image, press (Right) while keeping SHIFT held down.

FEATURE: Slow-Motion Playback**PURPOSE:**

To allow slow-speed search in either direction during video playback.

OPERATION:

- 1) To change from normal to Slow-Motion Playback, press **SLOW** (or) more than approx. 2 seconds. After approx. 1 minute in Slow Rewind or approx. 2 minutes in Slow Forward, normal playback resumes.
 - To stop Slow-Motion Playback, press **PLAY** ()

NOTES:

- You can also engage Slow-Motion Playback from Still Playback by pressing **SLOW** more than approx. 2 seconds.
- During Slow-Motion Playback, due to digital image processing, the picture may take on a mosaic effect.
- After **SLOW** (or) is pressed and held, the still image may be displayed for a few seconds, followed by a blue screen for a few seconds. This is not a malfunction.
- There may be a small margin between the slow-motion playback start point you chose and the actual start point for Slow-Motion Playback.
- During Slow-Motion Playback, there will be disturbances in video and the picture may seem unstable, especially with steady images. This is not a malfunction.
- During Slow-Motion Playback, press **PAUSE** () to pause playback.

FEATURE: Frame-By-Frame Playback**PURPOSE:**

To allow frame-by-frame search during video playback.

OPERATION:

- 1) To change from normal to Frame-By-Frame Playback, press **SLOW** () repeatedly for forward or **SLOW** () repeatedly for reverse. Each time it is pressed, the frame is played back.

NOTE:

You can also engage Frame-By-Frame Playback from Still Playback by pressing **SLOW** (or) repeatedly.

FEATURE: Playback Zoom**PURPOSE:**

To magnify the recorded image up to 10X at any time during playback.

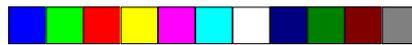
OPERATION:

- 1) Press **PLAY** () to find the scene of interest.
- 2) Press the Zoom Buttons (**T/W**) on the remote control. Make sure the remote control is pointed at the camcorder's remote sensor. Pressing **T** zooms in.
- 3) You can move the image on screen around to find a particular portion of the picture. While holding down **SHIFT**, press (Left), (Right), (Up) and (Down).
 - To end zoom, press and hold **W** until magnification returns to normal. Or, press **STOP** () and then press **PLAY** ()

NOTES:

- Zoom can also be used during slow-motion and still playback.
- Due to digital image processing, the quality of the image may suffer.
- Playback Zoom cannot be used on images that were recorded when "CAMERA MODE" is set to "PS-VIDEO" (see pg. 28, 29).



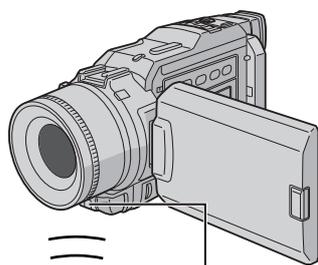


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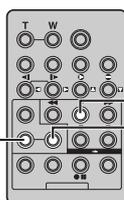
USING THE REMOTE CONTROL UNIT (cont.)

PLAYBACK EFFECT	
OFF	
1	CLASSIC FILM
2	MONOTONE
3	SEPIA
4	STROBE
5	VIDEO ECHO

PLAYBACK EFFECT
Select Menu



Remote sensor



EFFECT

PLAY

EFFECT ON/OFF

FEATURE: Playback Special Effects

PURPOSE:

To allow you to add creative effects to the video playback image.

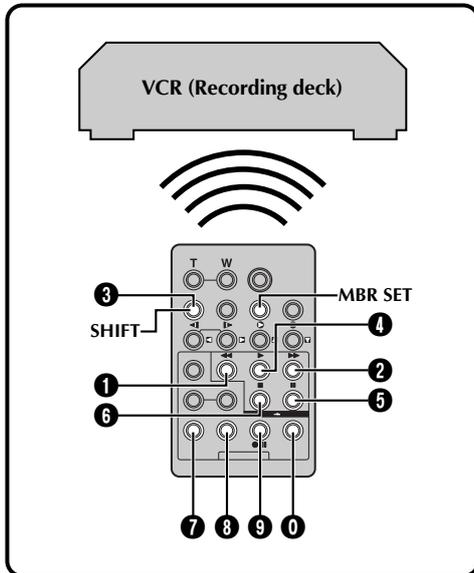
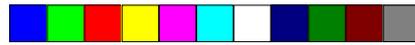
OPERATION:

- 1) To start playback, press **PLAY** (▶).
- 2) Point the remote control at the camcorder's remote sensor and press **EFFECT**. The **PLAYBACK EFFECT Select Menu** appears.
- 3) Move the highlight bar to the desired effect by pressing **EFFECT**. The selected function is activated and after 2 seconds the menu disappears.
 - To deactivate the selected effect, press **EFFECT ON/OFF** on the remote control. Pressing it again re-activates the selected effect.
 - To change the selected effect, repeat from step 2 above.

NOTES:

- When some Playback Special Effects are used, the Multi-Analyzer 4 and Multi-Analyzer 9 Snapshot modes (☞ pg. 20) are not available.
- The effects that can be used during playback are Classic Film, Monotone, Sepia, Strobe and Video Echo. The effects work the same in playback as they did in recording. Refer to page 37 for more information.





Random Assemble Editing [R.A.Edit]

Create edited videos easily using your camcorder as the source player. You can select up to 8 "cuts" for automatic editing, in any order you like. R.A.Edit is more easily performed when the MBR (Multi-Brand Remote) 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 batteries are installed in the remote control (pg. 61).

SET REMOTE/VCR CODE

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, press and hold **MBR SET**, and press button (A) and then (B). The code is automatically set once you release **MBR SET**, and the VCR's power comes on.

2 Make sure the VCR's power is on. Then, while holding **SHIFT**, 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 do not need to press **SHIFT** for this one).

You are 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 does not come on in step 1, try another code from the VCR CODE LIST.
- Some brands of VCR do not come on automatically. In this case, turn the power on manually and try step 2.
- If the remote control is not able to control the VCR, use the controls on the VCR.
- When the remote control's batteries run out, the VCR brand you have set will be erased. In that case, replace the old battery with a new one to reset the VCR brand.

VCR CODE LIST

VCR BRAND NAME	BUTTONS (A) (B)	VCR BRAND NAME	BUTTONS (A) (B)
GE	1 1 9 2 9 0 9 4	PHILIPS	3 3 7 2
HITACHI	6 6 6 3	PANASONIC	1 3 1 7 1 1 9 4 1 8
JVC A B C	9 1 9 6 9 3	RCA	9 2 9 4 6 6 6 3 9 0
MAGNAVOX	9 5 1 1 7 1 7 6	SANYO	3 6 3 5
MITSUBISHI	6 7 6 8	SHARP	1 5 1 0
NEC	3 7 3 8	SONY	6 5 6 0 3 9 3 1
PHILIPS	1 9 9 5 1 1 9 4 9 1 9 6 1 2	TOSHIBA	6 9 6 1
		ZENITH	1 6