

# JVC



LYT2019-002A-M

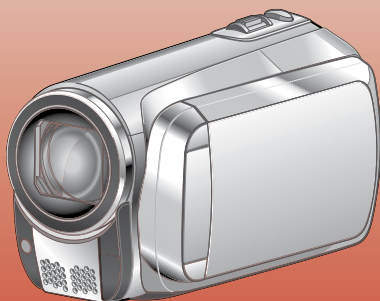
ENGLISH

**EN**

## GUIDEBOOK

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### MEMORY CAMERA GZ-MS130U



#### Dear Customer

Thank you for purchasing this memory camera. Before use, please read the safety information and precautions contained in pages 2 and 3 to ensure safe use of this product.

#### For Future Reference:

Enter the Model No. (located on the bottom of the memory camera) and Serial No. (located on the battery pack mount of the memory camera below.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_



**DOLBY**  
DIGITAL  
STEREO CREATOR

# Safety Precautions



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



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

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

## NOTES:

- The rating plate and safety caution are on the bottom and/or the back of the main unit.
- The serial number plate is on the battery pack mount.
- The rating information and safety caution of the AC adapter are on its upper and lower sides.

## For USA-California Only

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply.  
See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)

## Caution on Replaceable lithium battery

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

Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025.  
Danger of explosion or Risk of fire if the battery is incorrectly replaced.

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

When the equipment is installed in a cabinet or on a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm (3-15/16") or more on both sides, on top and at the rear).

Do not block the ventilation holes.

(If the ventilation holes are blocked by a newspaper, or cloth etc. the heat may not be able to get out.)

No naked flame sources, such as lighted candles, should be placed on the apparatus.

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

The apparatus shall not be exposed to dripping or splashing.

Do not use this equipment in a bathroom or places with water.

Also do not place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups etc.) on top of this unit. (If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

Do not point the lens directly into the sun. This can cause eye injuries, as well as lead to the malfunctioning of internal circuitry. There is also a risk of fire or electric shock.

## CAUTION!

The following notes concern possible physical damage to the camcorder and to the user.

Carrying or holding the camcorder by the LCD monitor can result in dropping the unit, or in a malfunction.

Do not use a tripod on unsteady or unlevel surfaces. It could tip over, causing serious damage to the camcorder.

## CAUTION!

Connecting cables (Audio/Video, S-Video, etc.) to the camcorder and leaving it on top of the TV is not recommended, as tripping on the cables will cause the camcorder to fall, resulting in damage.

## CAUTION:

The mains plug shall remain readily operable.

## WARNING:

Batteries, including lithium batteries installed in the camcorder and the remote control, should not be exposed to excessive heat such as direct sunshine, fire or the like.

## IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Only use attachments/accessories specified by the manufacturer.
10. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



**Remember that this camcorder is intended for private consumer use only.**

Any commercial use without proper permission is prohibited. (Even if you record an event such as a show, performance or exhibition for personal enjoyment, it is strongly recommended that you obtain permission beforehand.)

### Trademarks

- Manufactured under license from Dolby Laboratories. Dolby and double-D symbol are trademarks of Dolby Laboratories.
- Windows® is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- Macintosh is a registered trademark of Apple Inc.
- YouTube and the YouTube logo are trademarks and/or registered trademarks of YouTube LLC.
- iTunes is a trademark of Apple Inc., registered in the U. S. and other countries.
- Other product and company names included in this instruction manual are trademarks and/or registered trademarks of their respective holders.



If this symbol is shown, it is only valid in the European Union.

## Charge the battery before recording

Turn off the camcorder and attach the battery pack.

### Access lamp

Blinks: Accessing files

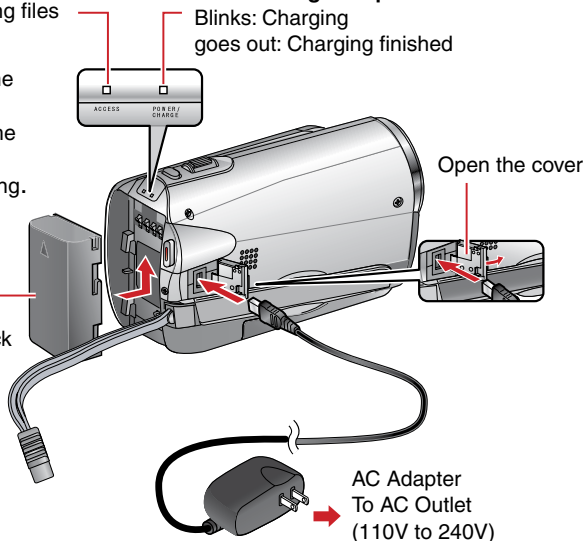
### Power/charge lamp

Blinks: Charging  
goes out: Charging finished

Do not remove the AC adapter, the battery pack or the SD card when the lamp is blinking.

Battery Pack

The battery pack is not charged at the time of purchase.



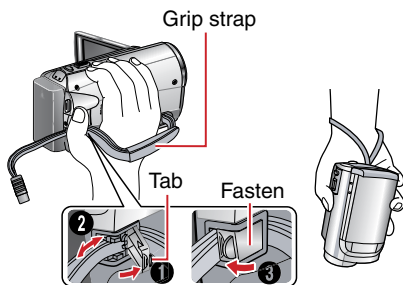
### CAUTION

Be sure to use JVC battery packs. If you use any other battery packs besides JVC battery packs, safety and performance can not be guaranteed.

## Grip Adjustment

Adjust the strap and fasten.

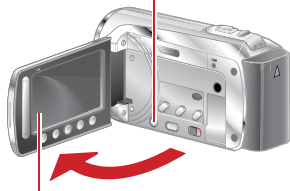
- Do not pull the strap when you open the fasten. Please use the tab to open it.
- Fasten the strap when you grip the camcorder.
- When carrying the camcorder, please be careful not to drop it.



## Date/Time Setting

- 1** Open the LCD monitor to turn on the camcorder

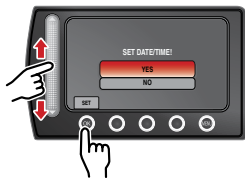
Power Button



LCD monitor

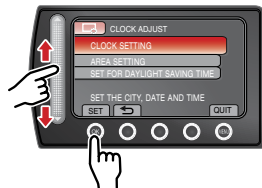
- 2** Select [YES] within 10 seconds

Slide your finger up and down on the sensor. Then touch OK.

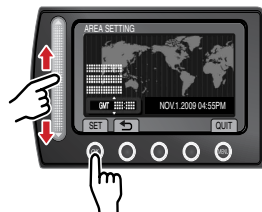


- When the message disappears, press the power button for at least 2 seconds to turn off the power, and then press it again for at least 2 seconds.
- Touch the sensors with your finger. The sensors do not function if you touch them with your finger nail or with gloves on.

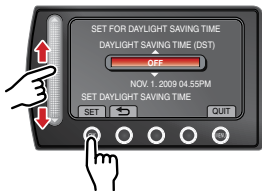
- 3** Select [CLOCK SETTING]



- 4** Select the city closest to the area where you use the camcorder

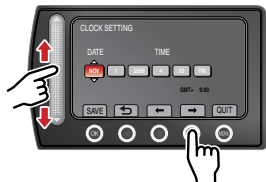


- 5** Select [ON] if daylight saving time is effective.



- 6** Set the date and time

**Touch sensor:** Sets the date and time  
**→:** Moves the cursor to the right  
**OK:** Clock starts

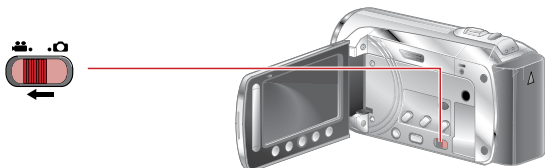


# Video recording

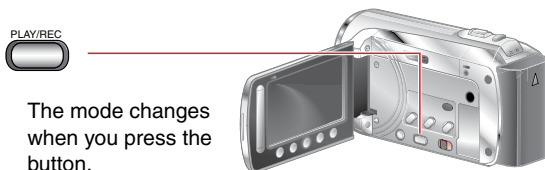
## CAUTION

Before recording an important scene, it is recommended to conduct a trial recording.

### 1 Slide the mode switch to select (video) mode

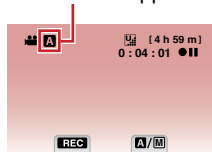


### 2 Select recording mode

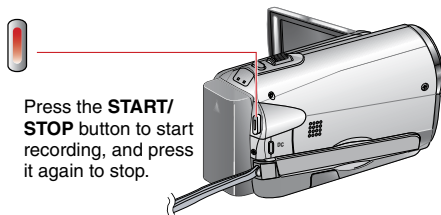


The mode changes when you press the button.

The auto recording indicator appears.



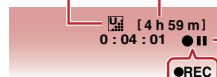
### 3 Start recording



Press the **START/STOP** button to start recording, and press it again to stop.

Remaining space on built-in memory or SD card

Video Quality      Record-standby



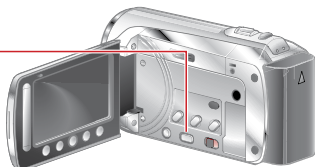
Recording

# Playing back

## 1 Select playback mode



The mode changes when you press the button.



## 2 Select the desired file



## 3 Select ► (Touch OK)



- To perform operations such as forward search or reverse search (⇨ pg. 26)
- To view files on TV (⇨ pg. 33)

It is recommended to copy your important recorded data to a DVD or other recording media for storage. JVC will not be responsible for any lost data.

### CAUTION

#### Don't forget to make copies after recording!

- To copy files onto DVD discs (⇨ pg. 43)
- To dub files using a VCR/DVD recorder (⇨ pg. 53)
- To play back a created DVD disc (⇨ pg. 46)
- To edit files on your computer (⇨ pg. 47)

# JVC Software Licence Agreement

## JVC SOFTWARE LICENCE AGREEMENT

### **IMPORTANT**

TO CUSTOMERS: PLEASE MAKE SURE TO READ THIS CAREFULLY BEFORE INSTALLING OR USING THE SOFTWARE PROGRAM NAMED "DIGITAL PHOTO NAVIGATOR" ("Program") ON YOUR PC.

The right to use the Program is granted by Victor Company of Japan, Limited ("JVC") to You only on the condition that You agree to the following. Should You not agree to the terms hereof, You may not install or use the Program. HOWEVER, INSTALLING OR USING THE PROGRAM INDICATES YOUR ACCEPTANCE OF THESE TERMS AND CONDITIONS.

### **1 COPYRIGHT; OWNERSHIP**

You acknowledge that all copyrights and other intellectual property rights in the Program are owned by JVC and its licensor, and remain vested in JVC and such licensor. The Program is protected under the copyright law of Japan and other countries, and related Conventions.

### **2 GRANT OF LICENCE**

- (1) Subject to the conditions of this Agreement, JVC grants to You a non-exclusive right to use the Program. You may install and use the Program on a HDD or other storage devices incorporated in Your PC.
- (2) You may make one (1) copy of the Program solely for your personal backup or archival purposes.

### **3 RESTRICTION ON THE PROGRAM**

- (1) You may not reverse engineer, decompile, disassemble, revise or modify the Program, except to the extent that expressly permitted by applicable law.
- (2) You may not copy or use the Program, in whole or in part, other than as expressly specified in this Agreement.
- (3) You have no right to grant a licence to use the Program, and may not distribute, rent, lease or transfer the Program to any third party or otherwise let them use the Program.

### **4 LIMITED WARRANTY**

JVC warrants that any media in which the Program is embodied are free from any defects in materials and workmanship for a period of thirty (30) days from the date of Your purchasing any our products accompanying the Program. JVC's entire liability and your exclusive remedy in connection with the Program shall be replacement of such defective media. EXCEPT FOR THE EXPRESS WARRANTIES STATED HEREIN AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, JVC AND ITS LICENSORS DISCLAIM ANY OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN REGARD TO THE PROGRAM AND THE ACCOMPANYING PRINTED MATERIALS. SHOULD THERE BE ANY PROBLEM ARISING FROM OR CAUSED BY THE PROGRAM, YOU SHOULD SETTLE ALL SUCH PROBLEM AT YOUR OWN COST AND EXPENSE.

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TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL JVC AND ITS LICENSORS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, REGARDLESS OF THE FORM OF ACTION WHETHER IN CONTRACT, TORT OR OTHERWISE ARISING OUT OF OR IN CONNECTION WITH THE USE OF OR INABILITY TO USE THE PROGRAM, EVEN IF JVC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. YOU WILL INDEMNIFY AND HOLD HARMLESS JVC FROM ANY LOSS, LIABILITY OR COST ARISING OUT OF OR IN ANY WAY CONNECTED TO CLAIMS FROM ANY THIRD PARTY RELATING TO THE USE OF THE PROGRAM.



## 6 TERM

This Agreement will become effective on the date when You install and use the Program on Your machine, and continue to be in effect until the termination under the following provision.

Should You breach any provision of this Agreement, JVC may terminate this Agreement without giving any notice to You. In this event, JVC may claim against You for any damages caused by Your breach. Should this Agreement be terminated, You must immediately destroy the Program stored in Your machine (including the erasing from any memory in Your PC), and no longer own such Program.

## 7 EXPORT CONTROL

You agree that You will not ship, transfer or export the Program or underlying information and technology to any countries to which Japan and other relevant countries have initiated an embargo on such goods.

## 8 U.S. GOVERNMENT USER

If You are an agency of the United States of America (the "Government"), You acknowledge JVC's representation that the Program is a "Commercial Item" as defined in Federal Acquisition Regulation (FAR) part 2.101 (g) consisting unpublished "Commercial Computer Software" as those items are used at FAR part 12.212 and is only licenced to You with the same use rights JVC grants all commercial end users pursuant to the terms of this Agreement.

## 9 GENERAL

- (1) No modification, change, addition, deletion or other alteration of or to this Agreement will be valid unless reduced to writing and signed by an authorized representative of JVC.
- (2) If any part of this Agreement is held invalid by or in conflict with any law having jurisdiction over this Agreement, the remaining provisions will remain in full force and effect.
- (3) This Agreement shall be governed by and interpreted under the laws of Japan. The Tokyo District Court has jurisdiction over all disputes which may arise with respect to the execution, interpretation and performance of this Agreement.

Victor Company of Japan, Limited

## NOTE

If You acquired the Program in Germany, the provisions of Sections 4 (Limited Warranty) and 5 (Limited Liability) provided above will be replaced with those of the German version of this Agreement.

## CAUTIONS:

- Operate this equipment according to the operating procedures described in this manual.
- Use only the provided CD-ROM. Never use any other CD-ROM to run this software.
- Do not attempt to modify this software.
- Changes or modifications not approved by JVC could void user's authority to operate the equipment.

## How to handle a CD-ROM

- Take care not to soil or scratch the mirror surface (opposite to the printed surface). Do not write anything or put a sticker on either the front or back surface. If the CD-ROM gets dirty, gently wipe it with a soft cloth outward from the center hole.
- Do not use conventional disc cleaners or cleaning spray.
- Do not bend the CD-ROM or touch its mirror surface.
- Do not store your CD-ROM in a dusty, hot or humid environment. Keep it away from direct sunlight.

You can find the latest information (in English) on the provided software program at our world wide web server at <http://www.jvc-victor.co.jp/english/global-e.html>

# Read This First!

## Make a backup of important recorded data

It is recommended to copy your important recorded data to a DVD or other recording media for storage. JVC will not be responsible for any lost data.

---

## Make a trial recording

Before the actual recording of important data, make a trial recording and play back the recorded data to check that the video and sound have been recorded correctly. We recommend you to use the same recording media when performing both the trial recording and the actual recording.

---

## Reset the camcorder if it does not operate correctly

Close the LCD monitor and remove the power supply (battery pack or AC adapter) from the camcorder, then reattach it.

---

## Precautions on handling batteries

- Be sure to use the JVC BN-VF808U/VF815U/VF823U battery packs. This product includes patented and other proprietary technology and is made to be used with the JVC battery and not with other batteries. JVC cannot guarantee safety or performance of this product when it is operated by other batteries.
  - If the camcorder is subjected to electrostatic discharge, turn off the power before using it again.
- 

## If a malfunction occurs, stop using the camcorder immediately and contact [www.jvc.com](http://www.jvc.com) or by phone at 1-800-252-5722

Recorded data may be erased while the camcorder is being repaired or inspected. Back up all data before requesting repairs or inspections.

---

## Because camcorder may be used for demonstration in a shop, the demonstration mode is set to on by default

To deactivate the demonstration mode, set [DEMO MODE] to [OFF]. (☞ pg. 60)

---

## When Using an SD Card

- Operations are confirmed on the following SD cards. Class 4 or higher compatible SD or SDHC card Panasonic, TOSHIBA, SanDisk, ATP SD card (256 MB to 2 GB) or SDHC card (4 GB to 32 GB)
- If other media are used, they may fail to record data correctly, or they may lose data that had already been recorded.
- MultiMediaCards are not supported.

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ENGLISH

GETTING  
STARTED

RECORDING/  
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USING WITH  
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COPYING

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## COPYING

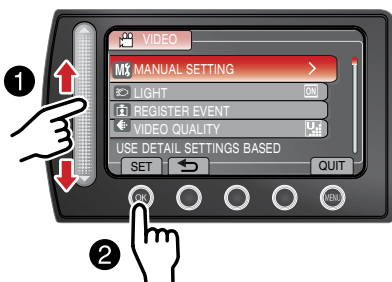
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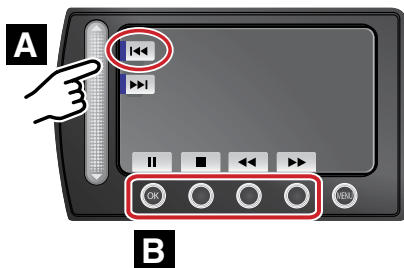
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## How to use the Touch Sensor

After the menu is displayed on the LCD monitor:



- 1 Slide your finger up and down on the sensor.
- 2 Select [SET]. (Touch OK.)



- A** To select an on-screen button appearing on the left side, touch the portion of the sensor next to the on-screen button.
- B** To select an on-screen button appearing at the bottom of the screen, touch the buttons underneath them.

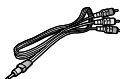
# Accessories



**AC Adapter**  
AP-V20U



**Battery Pack**  
BN-VF808U



**Audio/Video Cable**



**Remote Control**  
RM-V751U



**USB Cable**



**CD-ROM**



**Core Filter (x2)**



**Lithium Battery**  
CR2025  
Pre-installed in the remote control unit.

## NOTE

Make sure to use the provided cables for connections. Do not use any other cables.

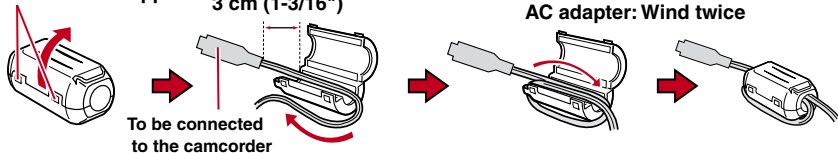
## Attaching the Core Filter

The core filter reduces interference caused when connecting to other devices.

Release the stopper.

3 cm (1-3/16")

**USB Cable: Wind once**  
**AC adapter: Wind twice**



To be connected  
to the camcorder

## Preparing the Remote Control

A battery is included inside the remote control at the time of purchase. Remove the insulation sheet before use.

### Beam Effective Area



**Remote Sensor**

Effective distance:  
5 m (16 ft)

## NOTE

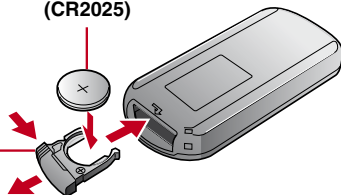
The transmitted beam may not be effective or may cause incorrect operation when the remote sensor is directly exposed to sunlight or powerful lighting.

### To Reinsert the Battery

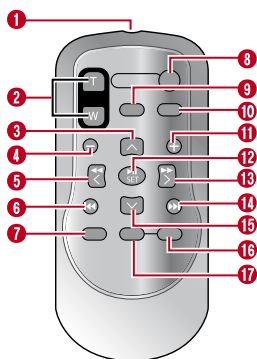
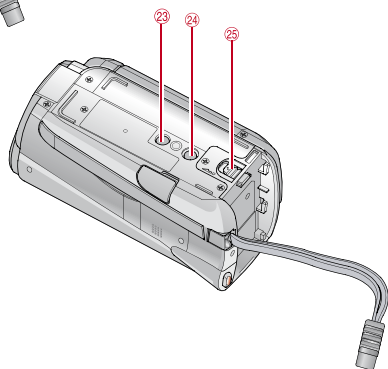
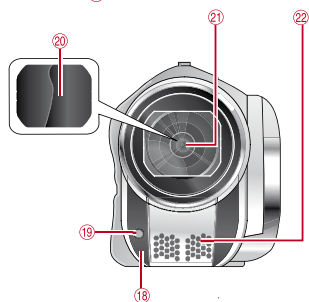
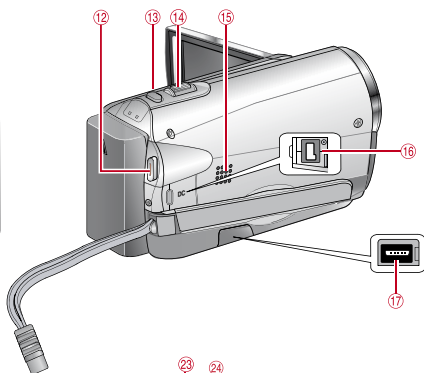
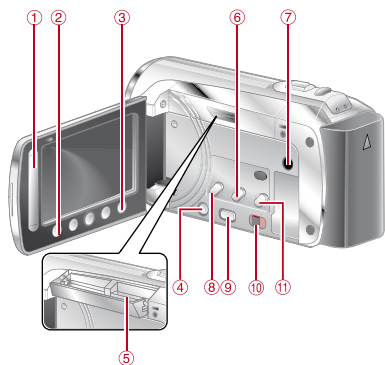
Pull out the battery holder by pressing the lock tab.

**Lock Tab**

**Lithium Battery**  
(CR2025)

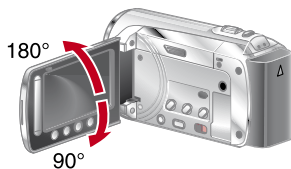


# Index






## NOTE

- The LCD monitor can rotate 270°.



- Be careful not to cover 18, 19, 21 and 22 during shooting.

## Camcorder

- ① Touch Sensor
- ② **OK** Button
- ③ **MENU** Button
- ④ Power (⏻) Button
- ⑤ SD Card Slot (⇨ pg. 21)
- ⑥ **EXPORT** Button
- ⑦ AV Connector
- ⑧ **UPLOAD** Button (⇨ pg. 56)
- ⑨ **PLAY/REC** Button (⇨ pg. 22, 23, 26, 27)
- ⑩ Mode Switch [, 
- ⑪ **DIRECT DVD** Button (⇨ pg. 44)  
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- ⑫ **START/STOP** Button (⇨ pg. 22)
- ⑬ **SNAPSHOT** Button (⇨ pg. 22, 23)
- ⑭ Zoom Lever [W , T] (⇨ pg. 24)  
Speaker Volume Control (⇨ pg. 26)
- ⑮ Speaker
- ⑯ DC Connector
- ⑰ USB Connector (⇨ pg. 43, 48)
- ⑱ Camera Sensor
- ⑲ LED Light (⇨ pg. 24)
- ⑳ Lens Cover
- ㉑ Lens
- ㉒ Stereo Microphone
- ㉓ Stud Hole
- ㉔ Tripod Mounting Socket (⇨ pg. 20)
- ㉕ Battery Release Button [BATT.] (⇨ pg. 18)

## Remote Control

- ① Infrared Beam Transmitting Window
- ② **ZOOM** (T/W) Buttons (Zoom in/out)
- ③ Up Button
- ④ Skip Backward Button
- ⑤ Left Button
- ⑥ Back Button
- ⑦ **PLAYLIST** Button
- ⑧ **START/STOP** Button
- ⑨ **S. SHOT (SNAPSHOT)** Button
- ⑩ **INFO** Button
- ⑪ Skip Forward Button
- ⑫ **PLAY/PAUSE** Button
- ⑬ Right Button
- ⑭ Next Button
- ⑮ Down Button
- ⑯ **INDEX** Button\*
- ⑰ **DISP** Button

\* Each time you press INDEX, the screen switches as shown below:



**mode:**

Index Screen ↔ Group Index Screen

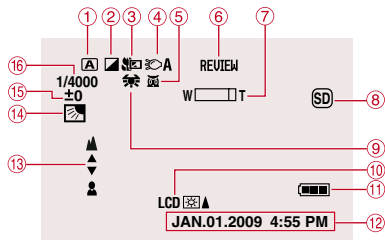


**mode:**

Index Screen ↔ Date Index Screen

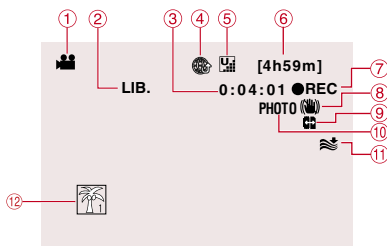
# Indications on LCD Monitor

## During both Video and Still Image Recording



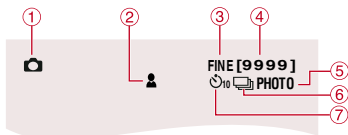
- ① Selected Operation Mode Indicator (↗ pg. 30)  
**A** : Auto Mode  
**M** : Manual Mode
- ② Effect Mode Indicator (↗ pg. 32)
- ③ Tele Macro Mode Indicator (↗ pg. 32)
- ④ LED Light Indicator (↗ pg. 24)
- ⑤ Scene Select Mode Indicator (↗ pg. 31)
- ⑥ Quick Review Indicator (↗ pg. 22, 23)
- ⑦ Zoom Indicator (↗ pg. 24)
- ⑧ Recording Medium Indicator (↗ pg. 62)  
 : SD Card  
 : Built-in memory
- ⑨ White Balance Indicator (↗ pg. 32)
- ⑩ Monitor Backlight Indicator (↗ pg. 60)
- ⑪ Battery Indicator
- ⑫ Date/Time (↗ pg. 19)
- ⑬ Manual Focus Adjustment Indicator (↗ pg. 31)
- ⑭ Backlight Compensation Indicator (↗ pg. 30)
- ⑮ Brightness Control Indicator (↗ pg. 31)  
 : Photometry Area Control Indicator (↗ pg. 32)
- ⑯ Shutter Speed (↗ pg. 31)

## During Video Recording Only



- ① Mode Indicator
- ② EXPORT Mode Indicator (↗ pg. 54)
- ③ Counter
- ④ Upload Mode Indicator (↗ pg. 56)
- ⑤ Video Quality:  
 (ULTRA FINE), (FINE),  
 (NORMAL), (ECONOMY) (↗ pg. 58)
- ⑥ Remaining Time
- ⑦ ● REC: (Appears during recording.)  
 ● ||: (Appears during record-standby mode.)
- ⑧ Digital Image Stabilizer (DIS) Indicator (Appears when [DIS] is set to [OFF].) (↗ pg. 59)
- ⑨ Auto switch record media (↗ pg. 59)
- ⑩ Shooting Indicator (↗ pg. 22)
- ⑪ Wind Cut Indicator (↗ pg. 59)
- ⑫ Event Indicator (↗ pg. 25)

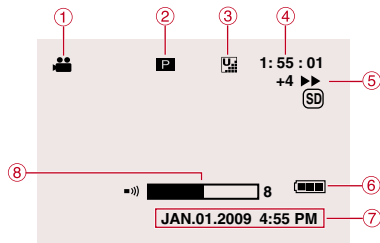
## During Still Image Recording Only



- ① Mode Indicator
- ② Focus Indicator (↗ pg. 23)
- ③ Image Quality: FINE (fine) or STD (standard) (↗ pg. 58)
- ④ Remaining Number of Shots
- ⑤ Shooting Indicator (↗ pg. 23)
- ⑥ Shutter Mode Indicator (↗ pg. 58)
- ⑦ Self-Timer Indicator (↗ pg. 58)

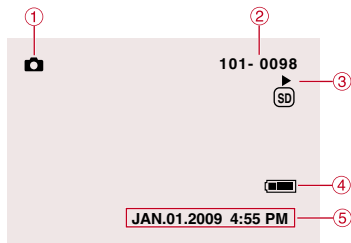


## During Video Playback



- ① Mode Indicator
- ② Playlist Playback Indicator (Appears when playing back a playlist.) (⇨ pg. 41)
- ③ Video Quality:  
 ■ (ULTRA FINE), ■ (FINE),  
 ■ (NORMAL), ■ (ECONOMY) (⇨ pg. 58)
- ④ Counter
- ⑤ Playback Mode  
 ▶ : Playback  
 ■■ : Pause  
 ▶▶ : Forward Search  
 ◀◀ : Reverse Search  
 ▶▶ : Forward Slow-Motion  
 ◀◀ : Reverse Slow-Motion  
 (The number on the left shows speed.)
- ⑥ Battery Indicator
- ⑦ Date/Time (⇨ pg. 19)
- ⑧ Volume Level Indicator

## During Still Image Playback

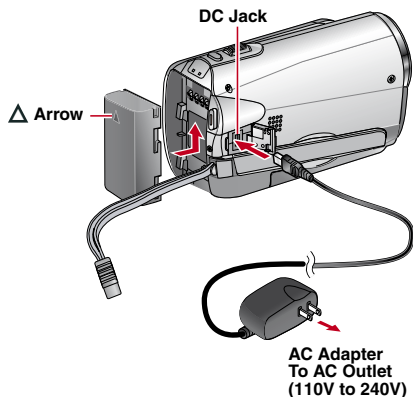


- ① Mode Indicator
- ② Folder/File Number
- ③ Slide Show Playback Indicator
- ④ Battery Indicator
- ⑤ Date/Time (⇨ pg. 19)

# Necessary Settings before Use

## Charging the Battery Pack

- 1 Close the LCD monitor to turn off the camcorder.
- 2 Attach the battery pack, then connect the AC adapter.
  - With the “ $\Delta$ ” (arrow) on the battery pack pointing at the correct direction, slide the battery pack until it locks in place.



- The power/charge lamp blinks to indicate charging has started.
- When the lamp goes out, charging is finished.

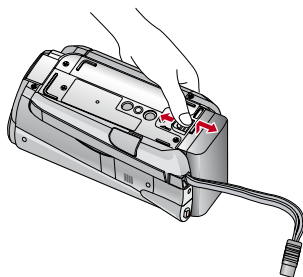
- To check the remaining battery power  
See page 24.

- Required charging/recording time (approx.)

\*When the LED light is off and the monitor backlight is set to [STANDARD] mode.

Battery pack	Charging time	Recording time
BN-VF808U (Provided)	1 hr. 50 min.	2 hr. 45 min.*
BN-VF815U	2 hr. 40 min.	5 hr. 25 min.*
BN-VF823U	3 hr. 40 min.	8 hr. 10 min.*

- To detach the battery pack



### NOTE

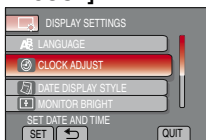
- You can also use the camcorder with just the AC adapter.
- The actual recording time may shorten depending on the recording environment, such as when recording scenes with fast moving subject.
- Please do not pull or bend the AC adapter plug and cable. This may damage the AC adapter.

## Date/Time Setting

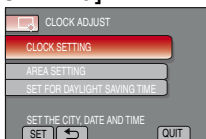
- 1 Open the LCD monitor to turn on the camcorder.
- 2 Touch MENU.
- 3 Select [DISPLAY SETTINGS].



- 4 Select [CLOCK ADJUST].



- 5 Select [CLOCK SETTING].



- 6 Select the city closest to the area where you use the camcorder.

Selected area is highlighted

Principal city of the selected area

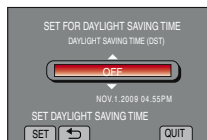
Time difference to GMT



- 7 Select [ON] if daylight saving time is effective.

[ON]: Clock is advanced one hour from the normal time which you set.

[OFF]: Deactivates the function.



- 8 Set the date and time.

Select the item by using the touch sensor and select [→] to set.



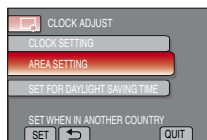
- 9 Select [SAVE].

To reset the setting, select [QUIT]

### Setting the clock to local time when traveling

After performing steps 1-4

- 5 Select [AREA SETTING].



- 6 Select the city closest to the area you are traveling.



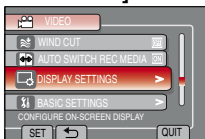
- To return to the previous screen  
Select [←].
- To quit the screen  
Select [QUIT].

# Other Settings

## Language Setting

The language on the display can be changed.


- 1 Open the LCD monitor to turn on the camcorder.
- 2 Touch MENU.
- 3 Select [DISPLAY SETTINGS].



- 4 Select [LANGUAGE].

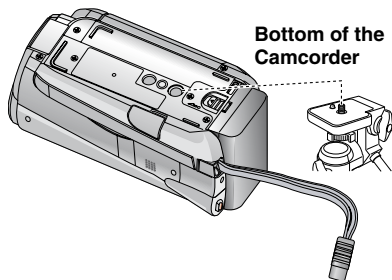


- 5 Select the desired language.

- 
- To return to the previous screen  
Select .
  - To quit the screen  
Select [QUIT]

## Tripod Mounting

Align the camcorder stud hole with the tripod stud, and the mounting socket with the screw, and then rotate the camcorder clockwise to mount it to the tripod.



### NOTE

Do not use a tripod on unsteady or unlevel surfaces. It could tip over, causing serious damage to the camcorder.

## Using an SD Card

If you want to record to an SD card, the following operations need to be performed.

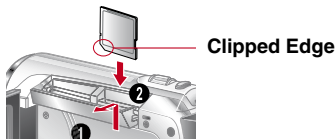
- Operations are confirmed on the following SD cards: Class 4 or higher compatible SD or SDHC card Panasonic, TOSHIBA, SanDisk, ATP SD card (256 MB to 2 GB) or SDHC card (4 GB to 32 GB).
- If other media are used, they may fail to record data correctly, or they may lose data that had already been recorded.
- MultiMediaCards are not supported.
- Cards used to record video on this camcorder cannot be played back on other devices.
- Some card readers (including internal card readers in PCs) may not be able to support SDHC format. If you use an SDHC card for recording and encounter any reading error, the card reader you are using might be a non-SDHC supported device. Please use the camcorder or other SDHC compatible devices to access the card.

### 1 Insert an SD card

#### Preparation:

Press Power (⏻) button to turn off the camcorder.

- 1 Open the SD card cover.
- 2 Firmly insert the card with its clipped edge first.



- 3 Close the SD card cover.

#### ■ To remove an SD card

Push the SD card once.

After the card comes out a little, pull it out.

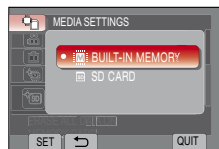
#### NOTE

- Insert and remove the SD card only while the power is turned off. Otherwise, data on the card may be corrupted.
- Do not touch the terminal on the reverse side of the label.

### 2 Change the recording medium

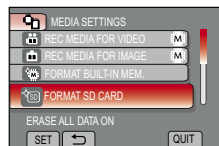
The camcorder is programmed to record on the BUILT-IN MEMORY flash when it is shipped from the factory. You can change the recording medium to SD card.

Set [REC MEDIA FOR VIDEO] to [SD CARD] and [REC MEDIA FOR IMAGE] to [SD]. (ⓘ p. 62)



### 3 Format an SD card when using it for the first time


Select [FORMAT SD CARD] to format the card. (ⓘ pg. 62)



It is recommended to copy your important recorded data to a DVD or other recording media for storage. JVC will not be responsible for any lost data.

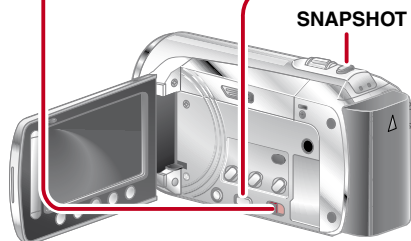
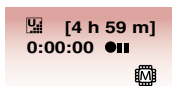
# Recording Files

## Video Recording

- 1** Slide the mode switch to select  (video) mode.



- 2** Press the **PLAY/REC** button to select recording mode.





SNAPSHOT

- 3** Press the **START/STOP** button to start recording.



Approximate remaining time for recording appears.

You can also start/stop recording by selecting [REC] on the LCD monitor. (On-screen recording control).


- **To stop recording**  
Press the **START/STOP** again.
- **To view the last recorded scene**  
Select  while recording is paused.  
Selecting  during playback deletes that scene.
- **To record a still image during video recording**  
Press **SNAPSHOT**.


- **To change the picture quality**  
Change the settings in [VIDEO QUALITY]. (⇨ pg. 58)
- **To change the aspect ratio of the image (16:9/4:3)**  
Change the settings in [SELECT ASPECT RATIO]. (⇨ pg. 59)

### NOTE



- The video recording mode is automatically selected when you turn off the camcorder and then on again.
- If the camcorder is not operated for 5 minutes while the power is on, it turns itself off automatically to conserve power.
- After recording video for 12 consecutive hours, recording stops automatically.
- A new file will be created for every 4 GB of continuous shooting.
- This camcorder records video in MPEG2 format compliant with SD-VIDEO format. This camcorder is not compatible with other digital video formats.

## Still Image Recording



**1** Slide the mode switch to select  (still image) mode.




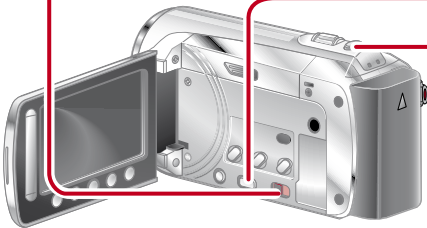
**2** Press the PLAY/REC button to select recording mode.





**3** Press and hold the SNAPSHOT button halfway.



The  indicator becomes green when the captured image is focused.



### ■ To view the last recorded image

Select  after shooting.  
Selecting  during playback deletes that image.

### ■ To change the picture quality

Change the settings in [IMAGE QUALITY]. (➔ pg. 58)

### ■ To record still images continuously

Set to [CONTINUOUS SHOOTING] in [SHUTTER MODE]. (➔ pg. 58)

**4** Press the SNAPSHOT button fully to take the photo/picture.





### NOTE

- DIS (Digital Image Stabilizer) does not function during still image recording.
- If the camcorder is not operated for 5 minutes while the power is on, it turns itself off automatically to conserve power.

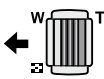
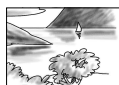
# Recording Files (Continued)

## Zooming

### Preparation:

- Slide the mode switch to select  or  mode.
- Press the **PLAY/REC** button to select recording mode.

### Zoom out



### Zoom in



**W:** Wide angle

**T:** Telephoto

You can also zoom out/zoom in by selecting [W] or [T] on the LCD monitor (On-screen zoom control)

Zoom Ratio (Factory-preset)

 mode	 mode
[80X/DIGITAL]	[35X/OPTICAL]

### ■ To change the maximum zoom ratio (for mode only)



Change the settings in [ZOOM]. (pg. 59)

#### NOTE

Macro shooting is possible as close as approx. 5 cm (2") to the subject when the zoom lever is set all the way to **W**.

## LED Light

### Preparation:

- Slide the mode switch to select  or  mode.
- Press the **PLAY/REC** button to select recording mode.

**1** Touch **MENU**.

**2** Select [**LIGHT**].

**3** Select the desired setting.

<b>ON</b>	The LED light remains on regardless of the surrounding conditions.
<b>AUTO</b>	The LED light turns on automatically when shooting in insufficient light conditions.


**OFF** Deactivates this function

## Checking the Remaining Battery Power

### Preparation:

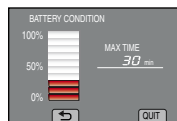
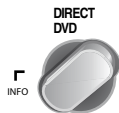
- Attach the battery pack.
- Press the **PLAY/REC** button to select recording mode.

For  mode:

Press the **INFO** button three times or **INFO** and then select .

For  mode:

Press **INFO**.



### ■ To return to the normal screen

Select [QUIT] or press **INFO**.

#### NOTE

The recordable time display should only be used as a guide. It is displayed in 10 minute units.



## Checking the Remaining Space on the recording medium

### Preparation:

- Slide the mode switch to select **MEMO** mode.
- Press the **PLAY/REC** button to select recording mode.

Press the **INFO** button once (**BUILT-IN MEMORY**) or twice (**SD CARD**).



The maximum recording time is displayed for each video quality mode.

### ■ To change the picture quality

- 1) Select the video quality.
- 2) Select [SET].

### ■ To Change the Recording Media

- 1) Press INFO to select Built-in Memory or SD.
- 2) Select [SET].

### ■ To quit the screen

- Select [QUIT].

## Registering Files to Events

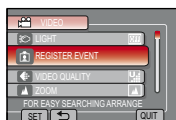
If you select an event to register the file to before starting recording, the file will be registered to the selected event, thus making the file easy to find at playback.

### Preparation:

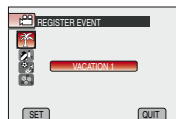
- Slide the mode switch to select **MEMO** mode.
- Press the **PLAY/REC** button to select recording mode.

### 1 Touch MENU.

### 2 Select [REGISTER EVENT].



### 3 Select the event.



The selected event is displayed on the screen.

### ■ To quit the screen

Select [QUIT].

### ■ To cancel the event registration

Select [CANCEL] in step 3.

### ■ To search a file by the event


See page 29.

### NOTE

Once you select a certain event to register a file, the setting will remain even if you turn off the camcorder.

# Playing Back Files

## Video Playback

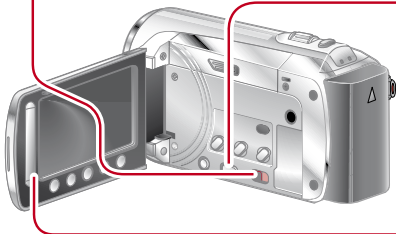
- 1** Slide the mode switch to select  (video) mode.




- 2** Press **PLAY/REC** to select the playback mode.



- The index screen appears.  
Select the desired file.



- To move to the previous or next page  
Touch **[▲]** or **[▼]** for over a second.
- To play back a few seconds from each select scene of the recorded videos  
Touch **[DIGEST]**.

- To delete a video  
Select  when playback is stopped.
- To change the number of thumbnails (6 thumbnails / 20 thumbnails)  
Move the zoom lever to **[T]** or **[W]**.

### Operations during Video Playback

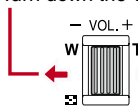
#### On-screen buttons

- ◀◀: Return to the first scene of the file
- ▶▶: Go to the first scene of the next file
- : Return to the index screen
- ◀◀: Reverse search (during playback)
- ◀|: Frame-by-frame playback in reverse direction (during pause)\*
- ▶: Playback
- ||: Pause
- ▶▶: Forward search (during playback)
- ▶|: Frame-by-frame playback in forward direction (during pause)\*

\* Slow playback starts when you keep touching the sensor button under **◀|/▶|** for a while.


### Speaker volume

—: Turn down the volume



+ : Turn up the volume

## Still Image Playback

**1** Slide the mode switch to select  (still image) mode.



**2** Press **PLAY/REC** to select the playback mode.

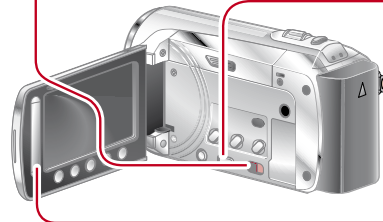


The index screen appears.

Select the desired file.



**3**



### ■ To move to the previous or next page

Touch **[▲]** or **[▼]** for over a second.

### ■ To delete a still image

Select .

### ■ To change the number of thumbnails (6 thumbnails/20 thumbnails)

Move the zoom lever to **[T]** or **[W]**.



### ■ Operations during Still Image Playback On-screen buttons

- ◀ : Change playback order of slide show in reverse direction
- ▶ : Change playback order of slide show in forward direction
- : Return to the index screen
- ◀◀ : Display the previous file
- ▶▶ : Start the slide show
- || : End the slide show
- ▶▶| : Display the next file

# Playing Back Files (Continued)

## File Search Function

### Preparation:

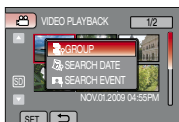
- Slide the mode switch to select  or  mode.
- Select the playback mode.

### Group Index Screen

You can search the desired file by the group. The group is created automatically based on recording date and time. And the contents of the group are changed when adding/deleting or editing scenes.

1 Select .

2 Select [GROUP].



3 Select the file you want to play back.



The number of files in the group is displayed in the thumbnails.

### ■ To return to the index screen

Select .

### ■ To quit the screen

Select [QUIT].


### NOTE

- The contents of the group may be changed depending on the interval of the recording time. To change the contents, register the event. (p. 25)
- The created groups may not be listed by recording date such as when copying the files to an SD card.

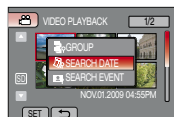
## Date Index Screen

You can search the desired file by the recording date.

1 Select .

In case of  mode, go to step 3.

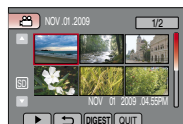
2 Select [SEARCH DATE].



3 Select the recording date.



4 Select the file you want to play back.



### ■ To return to the index screen

Select .

### ■ To quit the screen

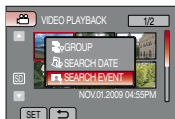
Select [QUIT].

## Event Screen

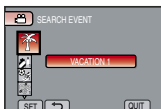


You can search the desired file by the event that you registered the file to when recording. (p. 25) After searching by the event, you can search by the recording date to narrow down the search.

- 1 Select **Q**.
- 2 Select the **[SEARCH EVENT]**.



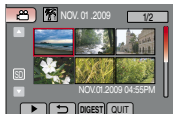
- 3 Select the event.



- 4 Select the recording date.  
To display all the files, select **[ALL]**.



- 5 Select the file you want to play back.



- To return to the index screen  
Select **↶**.
- To quit the screen  
Select **[QUIT]**.
- To change the event registration of a file  
See page 38.

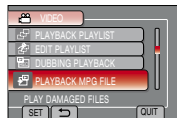
## Playing Back MPG Files

A MOD file is created in the EXTMOV folder when management information is corrupted. Follow the procedure below to play back the MPG files in the EXTMOV folder.

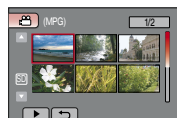
### Preparation:

- Slide the mode switch to select **MODE** mode.
- Press the **PLAY/REC** button to select playback mode.

- 1 Touch **MENU**.
- 2 Select **[PLAYBACK MPG FILE]**.



- 3 Select the file you want to play back.



- To return to the normal file playback mode  
Select **↶**.

### NOTE



Depending on the condition of the damaged file, playback might fail or may not run smoothly.

# Manual Recording

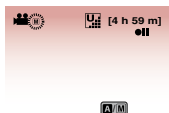
Manual recording mode enables you to set the focus and screen brightness etc. manually.

## Change to Manual Recording Mode

### Preparation:

- Slide the mode switch to select  or  mode.
- Press the **PLAY/REC** button to select recording mode.

Select **[A/M]** twice.



### ■ To return to the auto recording mode

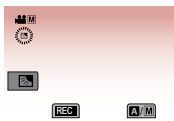
Select **[A/M]** so that the **[A]** indicator appears.

## Backlight Compensation

Backlight compensation brightens the subject by increasing the exposure.

In the manual recording mode;


Select .



### ■ To cancel backlight compensation

Select  again.

### NOTE

If the LCD monitor is turned upside down,  is not displayed. Change the setting when the LCD monitor is in the normal position.

## Manual Setting Menu

In the manual recording mode:

- 1 Touch **MENU**.
- 2 Select **[MANUAL SETTING]**.



- 3 Select the desired menu.



- 4 Select the desired setting.




















Depending on the kind of settings you select, you can set the value by using the touch sensor.

### ■ To return to the previous screen











Select .

### ■ To quit the screen

Select **[QUIT]**.

Menus	Settings: [ ] = Factory-preset
<p> <b>SCENE SELECT</b> Adjusts the exposure and shutter speed to suit your surroundings or the subject.</p>	<p> <b>[OFF]</b>: Deactivates the function.</p> <p> <b>NIGHT</b>: Records with more sensitivity in dim locations by adjusting the shutter speed automatically.</p> <p> <b>TWILIGHT</b>: Makes evening scenes look more natural.</p> <p> <b>PORTRAIT</b>: The subject in the foreground is accentuated by blurring the background.</p> <p> <b>SPORTS</b>: Records fast moving subjects clearly.</p> <p> <b>SNOW</b>: Compensates for subjects that may appear too dark when shooting in extremely bright surroundings, such as in snow.</p> <p> <b>SPOTLIGHT</b>: Select this when a spotlight makes a subject appear too bright.</p>
<p> <b>FOCUS</b> Adjusts the focus.</p>	<p><b>[AUTO]</b>: The focus is adjusted automatically.</p> <p><b>[M] MANUAL</b> :</p> <p> <b>▲▲▼</b>  : Adjusts the focus manually. (When zooming, the subject will not go out of focus if you adjust the focus at the telephoto (T) side before zooming to the wide-angle (W) side.)</p>
<p> <b>ADJUST BRIGHTNESS</b> Adjusts the brightness.</p>	<p> <b>mode</b></p> <p><b>[A] [AUTO]</b>: The brightness is adjusted automatically.</p> <p><b>[M] MANUAL</b> :</p> <p><b>-6 to +6</b>: Corrects the brightness within this range in increments of 1.</p> <p> <b>mode</b></p> <p><b>[A] [AUTO]</b>: The brightness is adjusted automatically.</p> <p><b>[M] MANUAL</b> :</p> <p><b>-2.0 to +2.0 (EV)</b>: Corrects the brightness within this range in increments of 1/3EV.</p>
<p> <b>SHUTTER SPEED</b> A fast shutter speed can freeze the motion of a fast-moving subject, and a slow shutter speed can blur the subject to give the impression of motion.</p>	<p> <b>mode</b></p> <p><b>[A] [AUTO]</b>: The shutter speed is adjusted automatically.</p> <p><b>[M] MANUAL</b> :</p> <p><b>1/2 to 1/4000</b>: The smaller the value, the faster the shutter speed.</p> <p> <b>mode</b></p> <p><b>[A] [AUTO]</b>: The shutter speed is adjusted automatically.</p> <p><b>[M] MANUAL</b> :</p> <p><b>1/2 to 1/500</b>: The smaller the value, the faster the shutter speed.</p> <p><b>NOTE</b></p> <p>It is recommended to use a tripod when recording with a slow shutter speed.</p>

# Manual Recording (Continued)

Menus	Settings: [ ] = Factory-preset
<p><b>WB WB</b> Adjusts the white balance to achieve the optimum colors for the amount of light in your surroundings during recording.</p>	<p><b>A [AUTO]:</b> White balance is adjusted automatically.  <b>M MANUAL :</b>  <input checked="" type="checkbox"/> <b>MWB:</b> Adjusts the white balance manually depending on the light source.</p> <ol style="list-style-type: none"> <li>1) Hold a sheet of plain white paper in front of the subject so that the white paper fills the screen.</li> <li>2) Keep touching the <b>OK</b> button until the  indicator starts blinking then stops blinking.</li> </ol> <p>   <b>FINE:</b> When shooting outdoors on a sunny day.   <b>CLOUD:</b> When shooting outdoors on a cloudy day.   <b>HALOGEN:</b> When a video light or similar type of lighting is used.</p>
<p><input type="checkbox"/> <b>PHOTOMETRY AREA</b> Enables you to adjust the brightness in the desired spot when backlight compensation does not work well.</p>	<p><input type="checkbox"/> <b>[WHOLE SCREEN]:</b> Brightness is adjusted automatically for whole screen.  <input checked="" type="checkbox"/> <b>SPOT:</b> Brightness for the specified spot is adjusted automatically.</p>
<p> <b>EFFECT</b> Enables you to record videos or still images with special effects.</p>	<p><input checked="" type="checkbox"/> <b>[OFF]:</b> No effect is used.  <input checked="" type="checkbox"/> <b>SEPIA:</b> The image has a brownish tint like old still images.  <b>B/W MONOTONE:</b> The image becomes black and white like old movies.   <b>CLASSIC FILM*:</b> This effect skips frames to give images of an old movie atmosphere.   <b>STROBE*:</b> The image looks like a series of consecutive snapshots.  *  mode only.</p>
<p> <b>TELE MACRO</b> Enables you to shoot a subject as large as possible at a distance of approx. 50 cm (1.64 ft).</p>	<p><input checked="" type="checkbox"/> <b>[OFF]:</b> Disables the function.  <input type="checkbox"/> <b>[ON]:</b> Activates the function.</p> <p><b>NOTE</b>  Set [TELE MACRO] to [OFF] if you will not take close-up still images.  Non-close-up still images will be blurred if [TELE MACRO] is set to [ON].</p>



# Viewing Files on TV

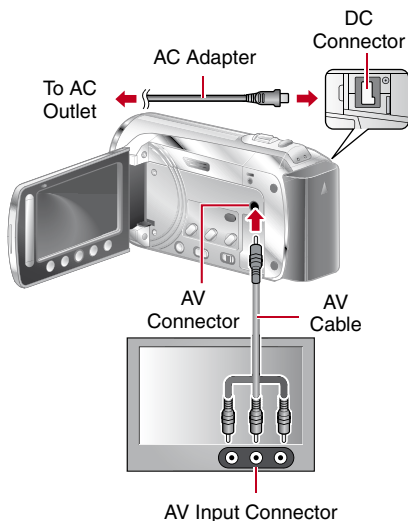
This camcorder is designed to be used with NTSC-type color television signals. It cannot be used with a television of a different standard.

## Connection with TV

### ■ To connect using the AV connector.

#### Preparation:

Turn off all units.



## Playback Operation

After the connection with TV is completed

- 1 Turn on the camcorder and the TV.
- 2 Set the TV to its VIDEO mode.
- 3 (Only when connecting the camcorder to the VCR/DVD recorder)  
Turn on the VCR/DVD recorder, and set the VCR/DVD recorder to its AUX input mode.
- 4 Start playback on the camcorder. (☞ p. 26, 27)

### ■ To display camcorder's on-screen display on TV

Set [DISPLAY ON TV] to [ON]. (☞ p. 61)

# Managing Files


## CAUTION

Do not remove the recording medium or perform any other operation (such as turning off the power) while accessing files. Also, be sure to use the provided AC adapter, as the data on the recording medium may be corrupted if the battery becomes exhausted during operation. If the data on the recording medium becomes corrupted, format the recording medium to use the medium again. (▶ pg. 62)

## Capture a Still Image from a Video

You can capture the desired scene from a recorded video, and store it as a still image.

### Preparation:

- Slide the mode switch to select  mode.
- Press the **PLAY/REC** button to select playback mode.

Press **SNAPSHOT** when playback is paused.





## NOTE

- Captured still images are stored at a resolution of 640 x 360 (if the video was recorded in 16:9) or 640 x 480 (if the video was recorded in 4:3). The image can be elongated in the horizontal or vertical directions depending on the quality of the source video file.
- The continuous shooting function cannot be used to capture images.
- You cannot capture video during playback.

## Deleting Files

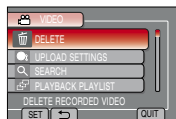
- Protected files cannot be deleted. To delete them, release the protection first.
- Once files are deleted, they cannot be restored. Check files before deleting.

### Preparation:

- Slide the mode switch to select  or  mode.
- Press the **PLAY/REC** button to select playback mode.

1 Touch **MENU**.

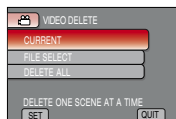
2 Select **[DELETE]**



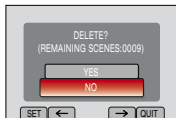
## Deleting the Currently Displayed File



After performing steps 1-2

3 Select **[CURRENT]**.



4 Select **[YES]**.



You can select the previous or next file by selecting  or .

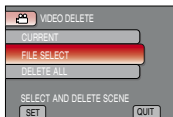
### ■ To quit the screen

Select **[QUIT]**.

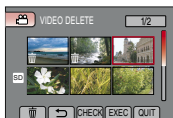
## Deleting Selected Files


After performing steps 1-2 (☞ pg. 34)

### 3 Select [FILE SELECT].



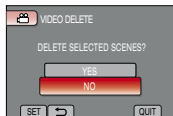
### 4 Select the desired file and select .



- The  mark appears on the file. To select other files, repeat this step.
- To check the content of the file, select [CHECK].

### 5 Select [EXEC].

### 6 Select [YES].



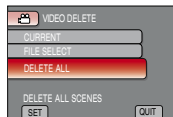
### ■ To quit the screen

Select [QUIT].

## Deleting All Files

After performing steps 1-2 (☞ pg. 34)

### 3 Select [DELETE ALL].



### 4 Select [YES].



### ■ To quit the screen

Select [QUIT].

# Managing Files (Continued)

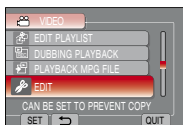
## Protecting Files

### Preparation:

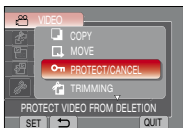
- Slide the mode switch to select or mode.
- Press the **PLAY/REC** button to select playback mode.

### 1 Touch MENU.

### 2 Select [EDIT].



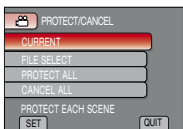
### 3 Select [PROTECT/CANCEL].



## Protecting the Currently Displayed File

After performing steps 1-3

### 4 Select [CURRENT].



### 5 Select [YES].



You can select the previous or next file by selecting or .

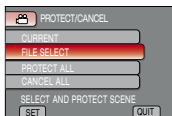
### ■ To quit the screen

Select [QUIT].

## Protecting Selected Files

After performing steps 1-3

### 4 Select [FILE SELECT].



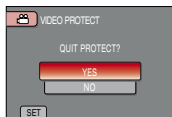
### 5 Select the desired file and select .



- The (protection) mark appears on the file. To select other files, repeat this step.
- To check the content of the file, select [CHECK].

### 6 Select [QUIT].

### 7 Select [YES].



### ■ To release protection

Select the protected file in step 5.

## Protecting All Files

After performing steps 1-3 (➡ pg. 36)

### 4 Select [PROTECT ALL].



### 5 Select [YES].



#### ■ To quit the screen

Select [QUIT].

#### ■ To release protection of all files

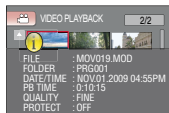
- 1) In step 4, select [CANCEL ALL].
- 2) Select [YES].

## Viewing File Information

### Preparation:

- For **Ⓜ** mode: Pause the playback. Otherwise, select the file on the index screen.
- For **📷** mode: Play back the still image. Alternatively, select the file on the index screen.

### Press the INFO button.



- **FILE:**  
File name
- **FOLDER:**  
Folder name
- **DATE/TIME:**  
Date and time of the recording
- **PB TIME (Ⓜ mode):**  
Playback time (length of the file)
- **SIZE (📷 mode):**  
Image size
- **QUALITY:**  
Video quality/Image quality (➡ pg. 58)
- **PROTECT:**  
File protection status (➡ pg. 36)

#### ■ To turn off the file information display

Press **INFO** again.

# Managing Files (Continued)

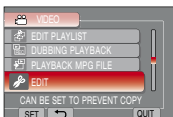
## Changing the Event Registration

### Preparation:

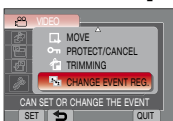
- Slide the mode switch to select **FILE** mode.
- Press the **PLAY/REC** button to select playback mode.

### 1 Touch MENU.

### 2 Select [EDIT].



### 3 Select [CHANGE EVENT REG.].



## Changing the Event of the Currently Displayed File

After performing steps 1-3

### 4 Select [CURRENT].



### 5 Select the file you want to register.



You can select the previous or next file by selecting **←** or **→**.

### 6 Select a new event.

To cancel the event registration, select [CANCEL].



## Changing the Event of the Selected Files

After performing steps 1-3

### 4 Select [SET RANGE AND CHANGE].



### 5 Select the first file of the range.



To preview scenes, select the file and select [CHECK].

### 6 Select the last file of the range.

### 7 Select a new event.

To cancel the event registration, select [CANCEL].




### ■ To quit the screen

Select [QUIT].

## Trimming Files

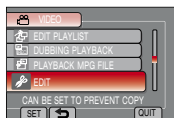
You can select the necessary part of the video and save it as a new video file.

### Preparation:

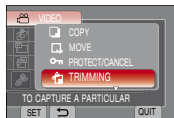
- Slide the mode switch to select  mode.
- Press the **PLAY/REC** button to select playback mode.

### 1 Touch MENU.

### 2 Select [EDIT].



### 3 Select [TRIMMING].

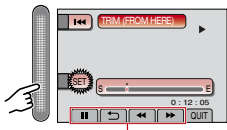


### 4 Select the desired file.



### 5 Select [SET] at the start point.

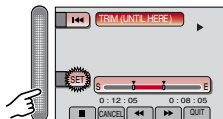
It is recommended to select [SET] after the pause button is pressed.



Use these controls to locate the start point.

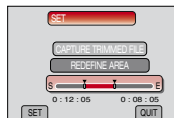
### 6 Select [SET] at the end point.

It is recommended to select [SET] after the pause button is pressed.



To cancel the start point setting, select [CANCEL].

### 7 Select [CAPTURE TRIMMED FILE].



To set the start/end point again, select [REDEFINE AREA].

### 8 Select [YES].

When copying is finished, the copied file is added to the index screen.

### 9 Touch OK.

#### ■ To quit the screen

Select [QUIT].

# Playlists

It is a list that enables you to organize recorded videos in order of preference.

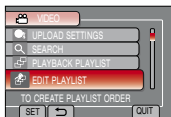
## Preparation:

- Slide the mode switch to select **📺** mode.
- Press the **PLAY/REC** button to select playback mode.

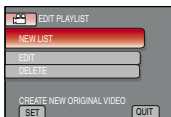
## Creating Playlists

### 1 Touch MENU.

### 2 Select [EDIT PLAYLIST].



### 3 Select [NEW LIST].

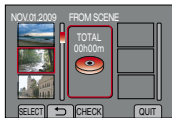


### 4 Select an item and display files.



- **[CREATE FROM SCENE]:**  
Display all files individually.
- **[CREATE BY DATE]:**  
Display all the files listed by recording date.
- **[CREATE BY GROUP]:**  
Display all files listed by group.
- **[CREATE BY EVENT]:**  
Search for an event and display the corresponding files listed by recording date.

### 5 Select the file to add to playlist.



To preview scenes, select the file and select [CHECK].

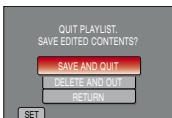
### 6 Select the insertion point.



- To add other files, repeat steps **5** and **6**.
- To delete a registered scene, select the registered file, then select [CANCEL].

### 7 Select [SAVE].

### 8 Select [SAVE AND QUIT].



## ■ To quit the screen

Select [QUIT].

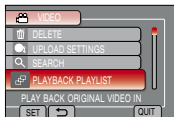
## NOTE

- A maximum of 99 playlists can be created.
- If you delete the original files, the corresponding files are also deleted from the playlist.

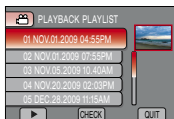


## Playing Back Playlists

- 1 Touch MENU.
- 2 Select [PLAYBACK PLAYLIST].



- 3 Select the playlist.



### ■ To stop playback

Select ■.

### ■ To quit the screen

Select [QUIT].

### ■ To play back from the desired scene

- 1) In step 3, select [CHECK]. (The index screen for playlist appears.)
- 2) Select the desired scene.

## Other Operations of Playlists

You can perform additional editing and delete files in a created playlist.

### Adding/Deleting Files in Playlist

After performing steps 1-2 (☞ pg. 40)

- 3 Select [EDIT].

- 4 Select the playlist you want to edit.

To add or delete files, follow the steps 5 to 8. (☞ pg. 40)

### Deleting Playlist

Original files are not deleted even if you delete the playlist.

After performing steps 1-2 (☞ pg. 40)

- 3 Select [DELETE].

- 4 Select a playlist you want to delete.

To delete all playlists at once, select [DELETE ALL]

- 5 When [DELETE PLAYLIST?] appears, select [YES].

# Copying Files

It is recommended to copy your important recorded data to a DVD or other recording media for storage. JVC will not be responsible for any lost data.

## Types of Copying and Connectable Device



### DVD Burner (CU-VD3/VD50)

You can copy video files recorded on this camcorder onto DVD discs.



### PC

You can copy video/still image files on this camcorder onto your PC.



### VCR/DVD Recorder

You can dub video files recorded on this camcorder onto DVD discs.

## NOTE

It is recommended to use the JVC DVD burner (CU-VD50/CU-VD3). When using CU-VD20 or CU-VD40, the recording time may take approx. 2 times longer than the time that is described in the instruction manual of DVD burner.

## Copying/Moving Files

You can copy or move files between built-in memory and SD card.

### Preparation:

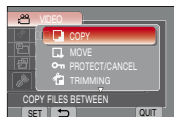
- Slide the mode switch to select or mode.
- Press the **PLAY/REC** button to select playback mode.
- Make sure that SD card is inserted in the SD slot.
- Make sure that enough free space is left in the copy/move destination medium.

### 1 Touch MENU.

### 2 Select [EDIT].



### 3 Select [COPY] or [MOVE].



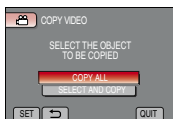
- **[COPY]:**  
Files are copied to the destination medium while leaving original files in the source medium.
- **[MOVE]:**  
Files are moved to the destination medium while deleting original files in the source medium.

### 4 Select the direction.

**[BUILT-IN MEM → CARD]** or **[CARD → BUILT-IN MEM]**

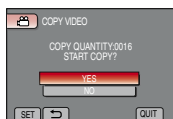


## 5 Select the desired menu.



- **[COPY ALL]/[MOVE ALL]:**  
Select this to transfer all files in the recording medium.  
When the size of all files in the built-in memory is larger than the free space of the SD card, only the files that can be contained in the free space will be copied.
- **[SELECT AND COPY]/[SELECT AND MOVE]:**  
Select when you want to transfer the selected files.
  - 1) Select the desired file, and touch **OK**.  
The **✓** mark appears on the file. To select other files, repeat this step.
  - 2) Select **[EXEC]**.

## 6 Select [YES].



File transfer starts. When **[COPYING COMPLETED] / [MOVING COMPLETED]** appears, touch **OK**.

### ■ To quit the screen

Select **[QUIT]**.

### ■ To stop the file transfer

- 1) Select **[STOP]**.
- 2) When **[QUIT?]** appears, select **[YES]**.

## Using a DVD Burner

Supported discs: 12cm DVD-R, DVD-RW

- Regarding DVD-R discs, only unused DVD-R discs can be used. Regarding DVD-RW discs, used DVD-RW discs can also be used, but they need to be formatted before recording. Formatting a disc deletes all content recorded on the disc up until that time.
- Dual-layer discs cannot be used.

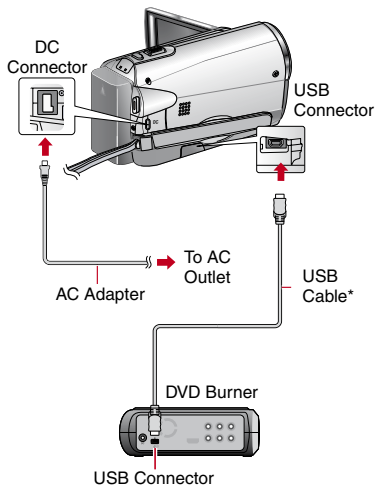
### Regarding finalization after copying

The disc is automatically finalized so that it can be played on other devices. After finalizing, the disc is a play-only disc, so no more files can be added.

## Connection with a DVD Burner

### Preparation:

Turn on the camcorder first, then turn on the DVD burner.




### NOTE

- Refer also to the optional DVD burner's instruction manual.
- \* Use the USB cable that came with the DVD burner.

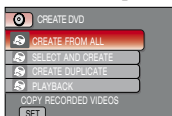
# Copying Files (Continued)

## Backup All Files

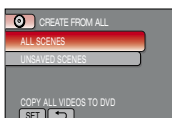
### Preparation:

- Connect the camcorder to the DVD burner.
- Slide the mode switch to select  mode.

### 1 Select [CREATE FROM ALL].




### 2 Select the desired menu.



- **[ALL SCENES]:**  
All files in the recording medium are copied.
- **[UNSAVED SCENES]:**  
Files that have never been copied to a DVD disc are automatically selected and copied.

### 3 Select the desired disc number.



- If you select [ALL], all discs in the list are created.
- To preview scenes, select [CHECK].
-  mark shows that the disc is created already.

### 4 Select [YES] or [NO].

- [YES]: Displays the thumbnails by group.
- [NO]: Displays the thumbnails by date.

### 5 Select [EXECUTE].

- The files are copied on the disc. When [COMPLETED] appears, touch **OK**.
- When [INSERT NEXT DISC PRESS [STOP] TO EXIT CREATE] appears, change the disc. Remaining files are copied on the second disc.
- To cancel copying, select [STOP].

## Copying Video Files that Have Never Been Copied

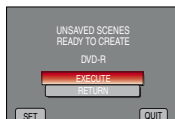
Files that have never been copied to the DVD discs are automatically selected and copied.

### 1 Open the LCD monitor to turn on the camcorder.

### 2 Press the DIRECT DVD.



### 3 Select [EXECUTE].




- The DVD disc begins to be created. When [COMPLETED] appears, touch **OK**.
- When [INSERT NEXT DISC PRESS [STOP] TO EXIT CREATE] appears, change the disc. Remaining files are copied on the second disc.
- To cancel the DVD creation, select [STOP].

### ■ To quit the screen

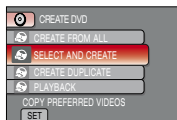
- 1) Select [QUIT].
- 2) When [QUIT?] appears, select [YES].

## Selecting Files for Backup

### Preparation:

- Connect the camcorder to the DVD burner.
- Slide the mode switch to select  mode.

### 1 Select [SELECT AND CREATE].



### 2 Select the desired menu.



#### • [CREATE BY DATE]:

Files are sorted according to the date on which they were recorded. Relevant files are displayed in a list. Select the recording date.

#### • [CREATE BY EVENT]:

Files are sorted according to event. Relevant files are displayed in a list. Select the event.

#### • [CREATE BY PLAYLIST]:

Select the desired playlist from the list to playlist. The selected playlists are displayed in a list.

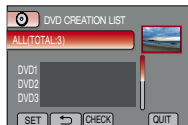
- 1) Select the desired list.
- 2) Select the insertion point. To select other lists, repeat this process.
- 3) Select [SAVE].


#### • [SELECT FROM SCENES]:

Select files individually.

- 1) Select the desired file. To select other files, repeat this process.
- 2) Select [SAVE].

### 3 Select the desired disc number.



- If you select [ALL], all discs in the list are created.
- To preview scenes, select [CHECK].
-  mark shows that the disc is created already.

### 4 Select [YES] or [NO].

- [YES] Displays the thumbnails by group.
- [NO] Displays the thumbnails by date.

### 5 Select [EXECUTE].

- The files are copied on the disc. When [COMPLETED] appears, touch the **OK**.
- When [INSERT NEXT DISC PRESS [STOP] TO EXIT CREATE] appears, change the disc. Remaining files are copied on the second disc.
- To cancel copying, select [STOP].

#### ■ To quit the screen

- 1) Select [QUIT].
- 2) When [QUIT?] appears, select [YES].

#### NOTE

In case of [CREATE BY PLAYLIST], date/time on the file information display shows the date of copying the file, instead of the actual recording date.

#### ■ To duplicate a disc

The last creation date is displayed. (Up to 20 files)


- 1) In step **1**, select [CREATE DUPLICATE].
- 2) Select the date and go to step **5**.

#### ■ To check whether the DVD disc was created properly

In step **1**, select [PLAYBACK].

# Copying Files (Continued)


## ■ To play back the created disc using the camcorder

- 1) Connect the camcorder to the DVD burner.
- 2) Turn on the camcorder first, then turn on the DVD burner.
- 3) Select [PLAYBACK].
- 4) Select the desired folder.
- 5) Select the creation date of the disc.
- 6) Select the desired file. To return to the previous screen, select .

## ■ Disc number

Disc number shows the number of DVD discs you can create. The dubbing range of each disc is automatically allocated, presuming that all the files are to be dubbed from the first one on the list. This dubbing range cannot be changed.

E.g.) "DVD1" can contain two files, "JAN.01.2009" and "JAN.15.2009".

DVD1	JAN. 01. 2009 09:05AM	
DVD2	JAN. 15. 2009 09:15AM	
	FEB. 01. 2009 09:05AM	
	FEB. 08. 2009 09:15AM	

## ■ Title and chapter of created DVD

Each recording date becomes one title in a created DVD and each file recorded in a same day becomes one chapter in the title.

JAN. 10. 2009: file 1 and 2 were recorded.

	File 1		File 2	
--	--------	--	--------	--

JAN. 11. 2009: file 3 and 4 were recorded.

	File 3		File 4	
--	--------	--	--------	--

 Create a DVD

### Title

JAN.10.2009		JAN. 11.2009	
File 1	File 2	File 3	File 4
1	2	3	4

### Chapter

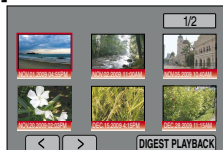
## Digest Playback

You can play back a few seconds from each select scene of the recorded videos in the created DVD.

Create a DVD using a DVD burner (CU-VD50/ CU-VD3).

### 1 Load the created DVD on the DVD player.

### 2 On the TV, Select [DIGEST PLAYBACK]\*.



You can view the previous or next page by selecting < / >.

\* The screen does not appear on the camcorder.

### 3 The digest is played back continuously.

## ■ To normal playback / To the index menu

- 1) Press the top menu button on the remote control of the DVD device during the digest playback.
- 2) Select the desired item.

### NOTE

"Digest Playback" menu is not available when DVD is burned using the provided MediaBrowser software.

## Creating a DVD using a PC

You can copy the data from the camcorder and create a DVD using a PC.

### 1 Installing the software to the PC

#### System Requirements

##### Windows Vista

OS: Windows Vista®  
Home Basic (SP1)  
Home Premium (SP1)  
(32-bit, pre-installed)

CPU: Either one of the following:  

- Intel® Pentium® 4, 1.6 GHz or higher
- Intel® Pentium® M, 1.4 GHz or higher
- Intel® Core™ Duo, 1.5 GHz or higher

RAM: At least 1 GB

##### Windows XP

OS: Windows® XP  
Home Edition (SP2/SP3)  
Professional (SP2/SP3)  
(pre-installed)

CPU: Either one of the following:  

- Intel® Pentium® 4, 1.6 GHz or higher
- Intel® Pentium® M, 1.4 GHz or higher
- Intel® Core™ Duo, 1.5 GHz or higher

RAM: At least 512 MB

#### ■ To check the PC specification

Right-click on [Computer] (or [My Computer]) in the [Start] menu and select [Properties].

#### NOTE

- Make sure your PC has a recordable DVD drive.
- If your system does not meet the requirements, it is recommended to copy files using the DVD burner. (p. 43)
- Macintosh users may use the software included with their Macintosh (iMovie '08, iPhoto) to copy files to their computer.

#### Preparation:

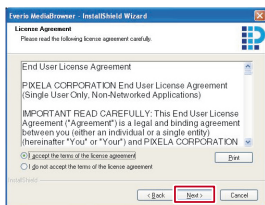
Load the provided CD-ROM into the PC. In Windows Vista, the auto play dialog box appears.

### 1 Click [Easy Installation].

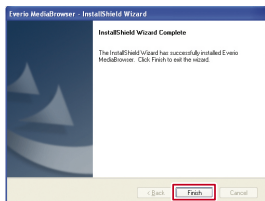


Follow the on-screen instructions.

### 2 Click [Next].



### 3 Click [Finish].



Everio MediaBrowser icon is created on the desktop.



#### ■ To see the Instruction Guide for Everio MediaBrowser

- 1) Double-click the icon of Everio MediaBrowser.
- 2) Click [Help], and click [MediaBrowser Help].

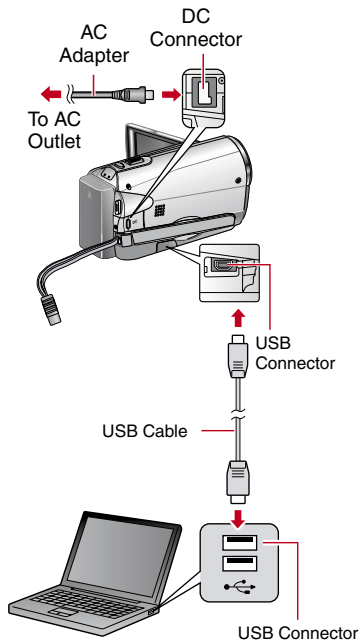


# Copying Files (Continued)

## 2 Making Backup on the PC

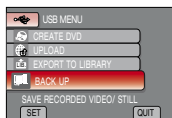
### Preparation:

- Install the software to the PC.
- Make sure that enough free space is left in the PC's HDD.
- Close the LCD monitor to turn off the camcorder.



1 Open the LCD monitor to turn on the camcorder.

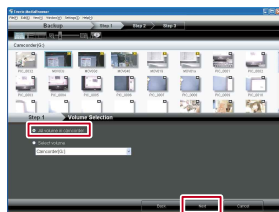
2 Select [BACK UP].



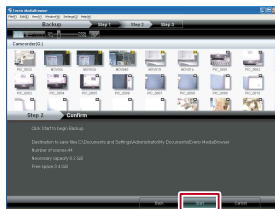
Everio MediaBrowser starts on the PC.



3 Click [All volume in camcorder] and click [Next].



4 Click [Start].



Backup starts.

### ■ To disconnect the camcorder from the PC

- 1) Right-click the icon (Safely Remove Hardware) on the task bar and select [Safely remove USB Mass Storage Device].
- 2) Follow the on-screen instructions and make sure that the device can be safely removed.
- 3) Disconnect the USB cable and close the LCD monitor.

### NOTE

It takes time to backup many videos.



### 3 Making User Lists to Arrange the Files

You can make a user list of a certain subject (such as Travel, Athletic meet) and put the files related to the subject into the user list.

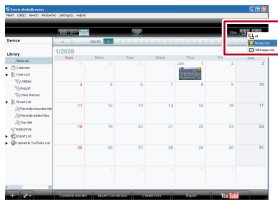
#### Preparation:

Make backup on the PC.

### 1 Double-click icon and open the calendar.



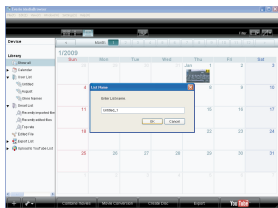
### 2 Select [Movies only].



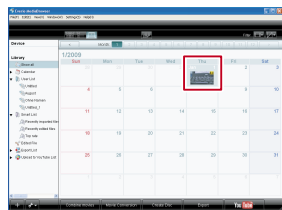
### 3 Click [+].



### 4 Input the name of the new user list and click [OK].

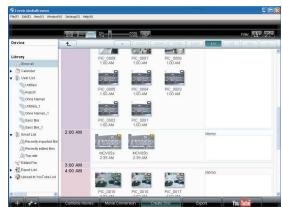


### 5 Double-click the recording date.



The files recorded on the day are displayed.

### 6 Drag the file and drop into the user list.



To add other files into the user list, repeat steps **5** and **6**

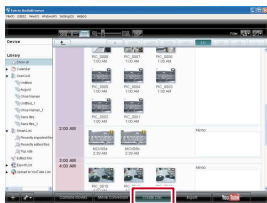
# Copying Files (Continued)

## 1 Copying Files to a DVD

### Preparation:

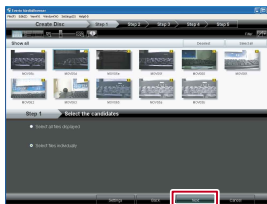
Use a recordable DVD disc (It is recommended to use a DVD-R disc.)

### 1 Select the user list and click [Create Disc].

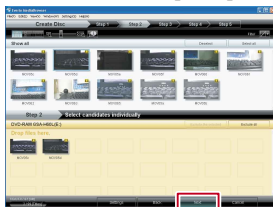


### 2 Click [Select files individually] and click [Next].

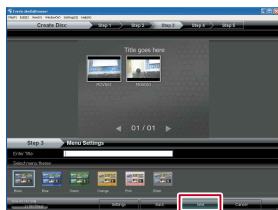
To add all the files onto DVD discs, click [Select all files displayed], then go to step 4.



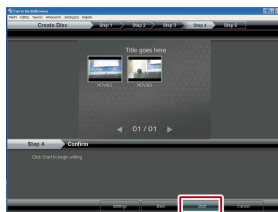
### 3 Drag the file, and drop into the part at the bottom and click [Next].



### 4 Input the disc name, select the top menu style and click [Next].



### 5 Click [Start].



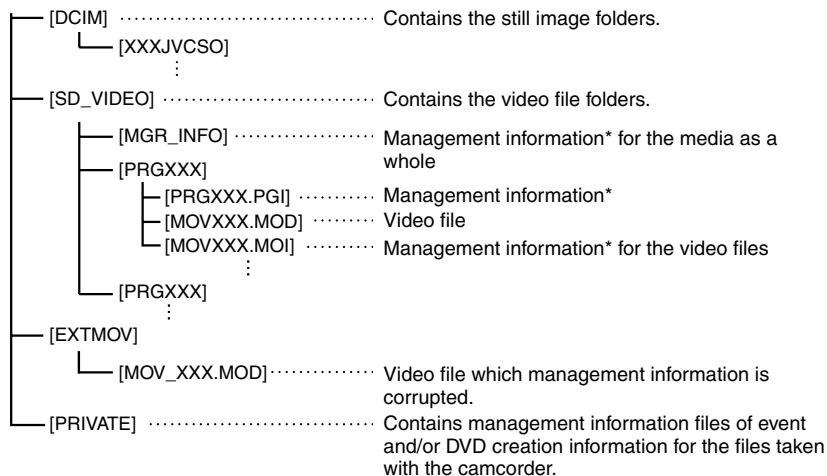
### NOTE

- For detail on operating Everio MediaBrowser, click [Help] and refer to [MediaBrowser Help].
- Adobe® Reader® must be installed to read [MediaBrowser Help]. Adobe® Reader® can be loaded from Adobe's web site: <http://www.adobe.com>
- For assistance in operating the provided software, refer to the support information. (p. 52)

## Folder Structure and Extensions

Recording medium

X = number



\* Information such as the date and time of recording, recorded with the video file.

# Copying Files (Continued)

## Customer Support Information

Use of this software is authorized according to the terms of the software licence.

### JVC

When contacting the nearest JVC office or agency in your country (refer to the JVC Worldwide Service Network at <http://www.jvc-victor.co.jp/english/worldmap/index-e.html>) about this software, please have the following information ready.

- Product Name, Model, Problem, Error Message.
- PC, (Manufacturer, Model (Desktop/Laptop), CPU, OS, Memory (MB), Available Hard Disk Space (GB)).

Please note that it may take some time to respond to your questions, depending on their subject matter. JVC cannot answer questions regarding basic operation of your PC, or questions regarding specifications or performance of the OS, other applications or drivers.

### Pixela

Region	Language	Phone #
USA and Canada	English	+1-800-458-4029 (toll-free)
Europe (UK, Germany, France and Spain)	English/Germany/France/Spanish	+1-800-1532-4865 (toll-free)
Other Countries in Europe	English/Germany/France/Spanish/ Italian/Dutch	+44-1489-564-764
Asia (Philippines)	English	+63-2-438-0090
China	Chinese	+86-21-5385-3786

Homepage: <http://www.pixela.co.jp/oem/jvc/e/index.html>

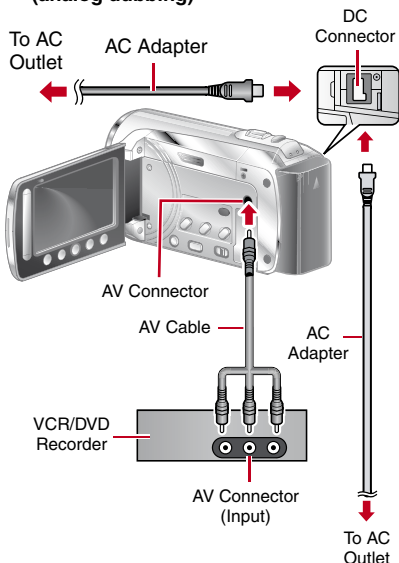
Please check our website for latest information and downloading.

## Dubbing Files to a VCR/DVD Recorder

### Preparation:

- Create a playlist.
- Turn off all units.

### ■ To connect using the AV connectors (analog dubbing)



**1** Open the LCD monitor to turn on the camcorder.

**2** Set the VCR/DVD recorder to its **AUX input mode**.

Check that the images from the camcorder are input correctly to the VCR/DVD recorder.

**3** Play back playlists on the camcorder.

- 1) Touch MENU.
- 2) Select [DUBBING PLAYBACK].
- 3) Select the desired playlist.
- 4) Select [YES]. (A black screen is displayed for 5 seconds at the first and the last scene.)

**4** At the point you want to start dubbing, start recording on the VCR/DVD recorder.

Refer to the VCR/DVD recorder's instruction manual.

### ■ To stop dubbing

Stop recording on the VCR/DVD recorder.


- **To hide the date or icons on the screen**  
Change the settings in [DISPLAY ON TV]. (☞ p. 61)

# Using with a Portable Media Player

## Turning on the Export Mode

You can easily transfer videos recorded in export mode to iTunes®. All the files with the export setting turned on are transferred to PC. For details on transferring, refer to the operation guide of MediaBrowser in the CD-ROM.

### Preparation:

- Slide the mode switch to select  mode.
- Press the **PLAY/REC** button to select recording mode.

Press **EXPORT** twice.

EXPORT




- 
- **To turn off the export mode**  
Press **EXPORT** twice.

## Changing the Export Setting

You can set the recorded videos to the export setting.

### Preparation:

- Slide the mode switch to select  mode.
- Press the **PLAY/REC** button to select playback mode.

1 Press **EXPORT**.

EXPORT



2 Select the file and select **[LIB.]**.



- To check the content of the file, select **[CHECK]**.

3 Select **[DONE]**.

- 
- **To cancel the export setting**  
Select the file and press **[LIB.]** again.
  - **To quit the screen**
    - 1) Select **[DONE]**.
    - 2) Select **[YES]**.

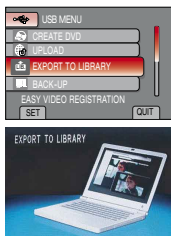
## Transferring the Files to PC

### Preparation:

Install iTunes® on a PC.

<http://www.apple.com/itunes/>

- 1 Connect the camcorder to the PC with the USB cable.
- 2 Select [EXPORT TO LIBRARY].



All the files with the export setting turned on are transferred to PC.

### ■ Cannot export the file to iTunes®

- Refer to “Q&A”, “Latest Information”, “Download Information”, etc. in [Click for Latest Product Info] in the help of the provided Everio MediaBrowser software.

## Turning on the Upload Mode

You can upload the file to video sharing websites (YouTube™) quickly after recording. For more information on YouTube™, visit YouTube™ website: <http://www.youtube.com/>

### Preparation:

- Slide the mode switch to select mode.
- Press the **PLAY/REC** button to select recording mode

Press **UPLOAD** twice.



If you record a file with the upload mode set on, the recording stops automatically 10 minutes after the recording is started. The remaining time is displayed on the LCD monitor.

### NOTE

The upload mode turns off each time recording is finished.

## Upload Trimming

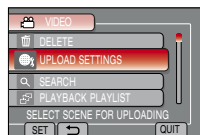
You can select the necessary part of the video and save it as a new video file ready for uploading.

### Preparation:

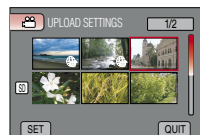
- Slide the mode switch to select mode.
- Press the **PLAY/REC** button to select playback mode.

1 Touch **MENU**.

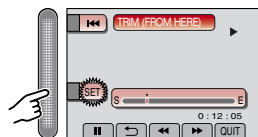
2 Select [**UPLOAD SETTINGS**].



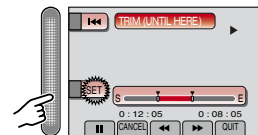
3 Select the desired file.



4 Select [**SET**] at the start point.



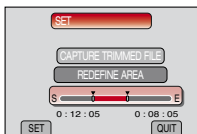
5 Select [**SET**] at the end point.



- The duration between the start point and the end point cannot be longer than 10 minutes.
- To cancel the start point setting, select [**CANCEL**].



## 6 Select [CAPTURE TRIMMED FILE].



To set the start/end point again, select [REDEFINE AREA].

## 7 Select [YES].

When copying is finished, the copied file is added to the index screen.

### ■ To quit the screen

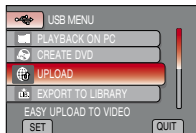
Select [QUIT].

## Uploading Files

For details on uploading files, refer to the operation guide of MediaBrowser in the CD-ROM.

1 Connect the camcorder to the PC with the USB cable.

2 Select [UPLOAD].



### ■ Cannot upload the file to YouTube™

- You need your YouTube™ account to upload files to YouTube™. Create your account.
- Refer to “Q&A”, “Latest Information”, “Download Information”, etc. in [Click for Latest Product Info] in the help of the provided Everio MediaBrowser software.

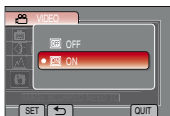
# Changing the Menu Settings

1 Touch MENU.

2 Select the desired menu.



3 Select the desired setting.

















■ To return to the previous screen

Select












■ To quit the screen








Select [QUIT].

Mode	Menus	Settings: [ ] = Factory-preset
	<b>M</b> MANUAL SETTING	See page 30. (In the manual recording mode only)
	LIGHT	See page 24.
	REGISTER EVENT	See page 25.
	<b>SELF-TIMER</b> Starts recording when the set time elapses after the <b>SNAPSHOT</b> button is pressed.	<b>[OFF] / 2SEC / 10SEC</b> <b>NOTE</b> <ul style="list-style-type: none"> <li>You can confirm the countdown on the camcorder screen.</li> <li>It is recommended to attach the camcorder to a tripod and use this function to prevent the vibration after <b>SNAPSHOT</b> is pressed.</li> </ul>
	<b>SHUTTER MODE</b> Records still images continuously while <b>SNAPSHOT</b> is pressed.	<b>[RECORD ONE SHOT]:</b> Records one still image at a time. <b>CONTINUOUS SHOOTING:</b> Records still images continuously while <b>SNAPSHOT</b> is pressed. <b>NOTE</b> <ul style="list-style-type: none"> <li>The interval between recording still images is approx. 0.3 seconds.</li> <li>Continuous shooting may not work well depending on the recording medium.</li> <li>The continuous shooting speed will drop if this function is used repeatedly.</li> </ul>
	<b>VIDEO QUALITY</b> Sets the picture quality.	<b>[ULTRA FINE] / FINE / NORMAL / ECONOMY</b>
	<b>IMAGE QUALITY</b> Sets the picture quality.	<b>[FINE] / STANDARD</b>








Mode		Menus	Settings: [ ] = Factory-preset
		 <b>ZOOM</b> Sets the maximum zoom ratio.	<b>35X/OPTICAL / 40X/DYNAMIC* / [80X/DIGITAL] / 800X/DIGITAL</b>  * Dynamic zoom The combination of optical and digital zoom technology offers higher zoom ratio than optical zoom without reducing the quality. <b>NOTE</b> Optical zoom is used up to [35X/OPTICAL]. Digital zoom is used from more than [35X/OPTICAL] up to the selected zoom ratio.
		 <b>DIS</b> Compensates for hand shake.	<b>OFF:</b> Deactivates the function. <b>[ON]:</b> Activates the function. <b>NOTE</b> <ul style="list-style-type: none"> <li>• Complete stabilization may not be possible if hand shake is excessive, or depending on the shooting conditions.</li> <li>• Switch off this mode when recording with the camcorder on a tripod.</li> </ul>
		 <b>GAIN UP</b> Makes the subject appear bright automatically when you record in dark places. However, the overall color tones appear greyish.	<b>OFF:</b> Deactivates the function. <b>AGC:</b> Electrically brightens the scene in dark place. <b>[AUTO]*:</b> Automatically brightens the scene when it is dark. (Becomes brighter than [AGC]. The motion of a subject may look unnatural if recorded in some condition.)  *  mode only
		 <b>SELECT ASPECT RATIO</b> Selects the aspect ratio for videos.	<b>[16:9]:</b> Records videos in 16:9 size. <b>4:3:</b> Records videos in 4:3 size. <b>NOTE</b> <ul style="list-style-type: none"> <li>• If the [VIDEO QUALITY] is set to [ECONOMY], you cannot record in 16:9 size.</li> <li>• If you want to copy the recorded videos onto DVD discs, it is recommended not to mix 16:9 size videos and 4:3 size videos.</li> </ul>
		 <b>WIND CUT</b> Reduces noise caused by wind.	<b>[OFF]:</b> Deactivates the function. <b>ON:</b> Activates the function.
		 <b>AUTO SWITCH REC MEDIA</b> Switches recording media automatically from Built-in Memory to SD card and vice versa after the the recording medium in use is full.	<b>OFF:</b> Deactivates the function. <b>[ON]:</b> Activates the function. The switching time of the SD card and built-in memory requires approximately 3 seconds. If there are many videos and data in the SD card, it might take up to a few minutes to perform the switch. No video is recorded during that time.

## Changing the Menu Settings (Continued)

Menus	Settings: [ ] = Factory-preset
 <b>ON-SCREEN DISPLAY</b> Displays indication modes on LCD monitor.	Select <b>[ON-SCREEN DISPLAY]</b> on Video Playback or Image Playback Mode. <b>OFF / [DISPLAY ALL] / DISPLAY DATE ONLY / DISPLAY DATE 5 SEC.</b>
 <b>DISPLAY SETTINGS</b>	Select <b>[DISPLAY SETTINGS]</b> , then select sub-menus.
 <b>LANGUAGE</b> Enables you to set the display language.	<b>[ENGLISH]</b> See page 20.
 <b>CLOCK ADJUST</b> Sets the time.	See page 19.
 <b>DATE DISPLAY STYLE</b> Sets the date and time display format.	<b>DATE STYLE:</b> <b>[month.day.year] / year.month.day / day.month.year</b> <b>TIME:</b> <b>24h / [12h]</b>
 <b>MONITOR BRIGHT</b> Sets the brightness of the LCD monitor.	Adjust the brightness of the display by using the touch sensor.
 <b>MONITOR BACKLIGHT</b> Enables you to adjust the brightness of backlight on the monitor.	<b>BRIGHTER:</b> Brightens the backlight on the monitor regardless of the surrounding conditions. <b>STANDARD:</b> Select this when saving the battery life. <b>[AUTO]:</b> The brightness will automatically be set to <b>[BRIGHTER]</b> when using outdoors and to <b>[STANDARD]</b> when using indoors (when using the battery pack).
 <b>BASIC SETTINGS</b>	Select <b>[BASIC SETTINGS]</b> , then select sub-menus.
 <b>DEMO MODE</b> Introduces special features of the camcorder when there is no operation for about 3 minutes during recording mode.	<b>OFF:</b> Deactivates the function. <b>[ON]:</b> Activates the function. <b>NOTE</b> <ul style="list-style-type: none"> <li>The demonstration only works when the AC adapter is connected, not with the battery pack.</li> <li>If an SD card is in the camcorder, demonstration will not take place even if this mode is set to <b>[ON]</b>.</li> </ul>
 <b>AUTO POWER OFF</b> If the camcorder is not operated for 5 minutes while the power is on, it turns itself off automatically to conserve power.	<b>OFF:</b> Deactivates the function. <b>[ON]:</b> Activates the function. To turn the camcorder on again, close the LCD monitor and open it again when using the battery pack. When using the AC adapter, perform any operation such as zooming.
 <b>OPERATION SOUND</b> Turns the operation sound on/off.	<b>OFF:</b> Turns off the operation sound. <b>[ON]:</b> The melody sounds when any operation is performed.

Menus	Settings: [ ] = Factory-preset
<p> <b>RECORD BUTTON</b> Enables the recording button [REC] on the LCD monitor.</p>	<p><b>OFF:</b> Deactivates the function. <b>[ON]:</b> Activates the function.</p>
<p> <b>QUICK RESTART</b> Enables the camcorder to start up quickly when you turn off the camcorder and then on again within 5 minutes by closing and opening the LCD monitor.</p>	<p><b>OFF:</b> Deactivates the function. <b>[ON]:</b> If the LCD monitor is opened again within 5 minutes, the camcorder starts quickly. The power consumption used for the 5 minute period after the LCD monitor is closed is approximately 1/3 of that used during recording. This enables you to save more power than leaving the power on.</p>
<p> <b>REMOTE</b> Turns on/off reception of the operation signal from the remote control.</p>	<p><b>OFF:</b> Does not receive the signal from the remote control. <b>[ON]:</b> Enables operation with the remote control.</p>
<p> <b>UPDATE</b> Updates and improves the system software.</p>	<p><b>YES:</b> Performs this function. <b>[NO]:</b> Cancels this function. <b>NOTE</b> Information about obtaining system update will be made available on the JVC's web site.</p>
<p> <b>FACTORY PRESET</b> Returns all the camcorder settings to their default values.</p>	<p><b>YES:</b> Performs the function. <b>NO:</b> Returns to the menu screen without executing reset.</p>
<p> <b>CONNECTION SETTINGS</b></p>	<p>Select [CONNECTION SETTINGS], then select sub-menus.</p>
<p> <b>DISPLAY ON TV</b> Displays camcorder's on-screen display on a TV screen.</p>	<p><b>[OFF]:</b> Does not display on TV. <b>ON:</b> Displays on TV.</p>

## Changing the Menu Settings (Continued)

Menus	Settings: [ ] = Factory-preset
 <b>VIDEO OUTPUT</b> Sets the aspect (16:9/4:3) to the screen of the connected television when outputting videos from the AV connector.	4:3 / [16:9]
 <b>MEDIA SETTINGS</b>	Select [MEDIA SETTINGS], then select sub-menus.
 <b>REC MEDIA FOR VIDEO</b> Sets the recording medium for video.	[BUILT- IN MEMORY] / SD CARD
 <b>REC MEDIA FOR IMAGE</b> Sets the recording medium for still images.	[BUILT - IN MEMORY] / SD
 <b>FORMAT BUILT- IN MEM.</b> Ensures stable speeds and operation when accessing the BUILT- IN MEMORY.	<p>[FILE]: Initializes all files in the BUILT-IN MEMORY.</p> <p><b>FILE + MANAGEMENT NO:</b>            Initializes all files and management numbers in the BUILT-IN MEMORY.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• Be aware that all files and data including protected files will be erased by the formatting process.</li> </ul>
 <b>FORMAT SD CARD</b> You have to format newly purchased SD cards with this camcorder before using them. This will also ensure stable speeds and operation when accessing the SD card.	<p>[FILE]: Initializes all files in the SD card.</p> <p><b>FILE + MANAGEMENT NO:</b>            Initializes all files and management numbers in the SD card.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• Be aware that all files and data including protected files will be erased by the formatting process.</li> </ul>
 <b>ERASE BUILT- IN MEM.</b> When you dispose of the camcorder, perform this to make it difficult to recover data on the BUILT-IN MEMORY.	<p><b>YES:</b> Performs this function. Select [OK] when completed.</p> <p>[NO]: Cancels this function.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• In addition to this operation, it is recommended that you use a commercially available data erasing software to eliminate the risk of data recovery.</li> </ul>

# Troubleshooting




Before requesting service, consult the following chart. If the solutions indicated in the chart do not solve the problem, consult your nearest JVC dealer or JVC service center for instructions.

Refer also to the FAQ of new products on JVC's website.

## The following phenomena are not malfunctions.

- The camcorder heats up when it is used for a long time.
- The battery heats up during charging.
- When playing back a video file, the image stops momentarily or the sound is interrupted at junctions between scenes.
- LCD monitor momentarily become red or black when sunlight is recorded.
- Black spots, or red, green, or blue spots appear on the LCD monitor. (The LCD monitor contains 99.99% effective pixels, but 0.01% of fewer pixels may be ineffective.)

Trouble		Action
Power	No power is supplied.	<ul style="list-style-type: none"><li>● Connect the AC adapter securely.</li><li>● Recharge the battery pack.</li></ul>
	After the low temperature message is displayed, the power turns off when the camcorder warms up.	<ul style="list-style-type: none"><li>● When the camcorder has warmed up after being cold, the camcorder may switch itself off to check it is operating correctly. Turn on the camcorder again to start using it.</li></ul>
Display	The remaining battery display is not correct.	<ul style="list-style-type: none"><li>● Fully charge the battery pack, run it down, and then recharge it again.</li><li>● If the camcorder is used for long periods of time in high or low temperatures, or if the battery pack is repeatedly charged, the amount of remaining battery may not be displayed correctly.</li></ul>
	The LCD monitor is difficult to see.	<ul style="list-style-type: none"><li>● The LCD monitor may be difficult to see if used in bright areas such as under direct sunlight.</li></ul>

	Trouble	Action
Recording	Recording cannot be performed.	<ul style="list-style-type: none"> <li>● SD Card or Built-In Memory is full. Delete unnecessary files or replace the SD Card.</li> </ul>
	Recording stops by itself.	<ul style="list-style-type: none"> <li>● Insert a commercially available SD card, and set each of the [REC MEDIA FOR VIDEO] to [SD Card] and [REC MEDIA FOR IMAGE] to [SD].</li> <li>● Recording stops automatically after 12 hours of continuous recording.</li> </ul>
	The recorded subject is too dark.	<ul style="list-style-type: none"> <li>● Use backlight compensation.</li> <li>● Set [GAIN UP] to [AGC] or [AUTO].</li> <li>● Use [NIGHT] from scene select.</li> <li>● Set the brightness to the [+] side.</li> </ul>
	The recorded subject is too bright.	<ul style="list-style-type: none"> <li>● Set the brightness to the [-] side.</li> <li>● Set the backlight compensation to off if it is being used.</li> </ul>
	Digital zoom does not work.	<ul style="list-style-type: none"> <li>● Change [ZOOM] to [80X/DIGITAL] or [800X/DIGITAL].</li> <li>● Digital zoom is not available in the still image recording mode.</li> </ul>
	The focus is not adjusted automatically.	<ul style="list-style-type: none"> <li>● Wipe the lens with lens cleaning cloth.</li> <li>● If you are recording in a dark place or a subject that has no contrast between dark and light, adjust the focus manually.</li> </ul>
	The color looks strange. (Too bluish, too reddish, etc)	<ul style="list-style-type: none"> <li>● Set [WB] in [MANUAL SETTING] appropriately to the light source.</li> <li>● Select [MWB] in [WB] while holding a sheet of plain white paper in front of the camcorder so that the white paper fills the screen. Keep touching <b>OK</b> until the  indicator appears.</li> </ul>
	White balance setting cannot be activated.	<ul style="list-style-type: none"> <li>● This cannot be used if [SEPIA] or [MONOTONE] are selected as effects.</li> <li>● Do not use [TWILIGHT] from scene select.</li> </ul>
	The continuous shooting speed is slow.	<ul style="list-style-type: none"> <li>● The continuous shooting speed will drop after continuous shots.</li> <li>● Continuous shooting speed may drop depending on the recording media or under certain recording conditions.</li> </ul>
Band of bright light appears on the LCD monitor.	<ul style="list-style-type: none"> <li>● This occurs when there is a bright light source near the camcorder. This is not a malfunction. Change the direction of the camcorder to prevent the light source comes into view.</li> </ul>	
Playback	Sound or video are interrupted.	<ul style="list-style-type: none"> <li>● Sometimes playback is interrupted at the connecting section between two scenes. This is not a malfunction.</li> </ul>
	Cannot find a recorded video/image.	<ul style="list-style-type: none"> <li>● Select [PLAYBACK MPG FILE] then search the video on the index screen. (Video files that have damaged management information can be played back.)</li> <li>● Cancel group display and date search functions.</li> <li>● Change the setting in [REC MEDIA FOR VIDEO] or [REC MEDIA FOR IMAGE]. (Files on other media are not displayed.)</li> <li>● Slide the mode switch to select the desired mode ( or .</li> </ul>
	Some functions cannot be used when playing back a backup DVD through a DVD burner connected to the camcorder.	<ul style="list-style-type: none"> <li>● The following functions cannot be used for a backup DVD. <ul style="list-style-type: none"> <li><b>When playing back video</b> <ul style="list-style-type: none"> <li>- Search index by date</li> <li>- Playback effects</li> </ul> </li> <li><b>When playing back still image</b> <ul style="list-style-type: none"> <li>- Playback effects</li> </ul> </li> </ul> </li> </ul>



Trouble		Action
Other Problems	The camcorder operates slowly when switching between video mode and still image mode, or when switching the power on or off.	<ul style="list-style-type: none"> <li>● If there are many files (such as video) in the camcorder, it takes time for the camcorder to respond. It is recommended that you copy all files from the camcorder onto your computer, and erase the files from the camcorder.</li> </ul>
	The lamp does not flash during battery pack charging.	<ul style="list-style-type: none"> <li>● Check the remaining battery pack charge. (When the battery pack is fully charged, the lamp does not flash.)</li> <li>● When recharging in either a hot or cold environment, ensure that battery is being charged within the permitted temperature range. (If the battery pack is being recharged outside the permitted temperature range, recharging may stop to protect the battery pack.)</li> </ul>
	The remote control does not work.	<ul style="list-style-type: none"> <li>● Replace the battery.</li> <li>● Set [REMOTE] to [ON].</li> <li>● The remote control may not operate outdoors or in places exposed to strong light.</li> </ul>
	Cannot upload the file to YouTube™	<ul style="list-style-type: none"> <li>● You need your YouTube™ account to upload files to YouTube™. Create your account.</li> <li>● Refer to “Q&amp;A”, “Latest Information”, “Download Information”, etc. in [Click for Latest Product Info] in the help of the provided Everio MediaBrowser software.</li> </ul>
	Cannot export the file to iTunes®	<ul style="list-style-type: none"> <li>● Refer to “Q&amp;A”, “Latest Information”, “Download Information”, etc. in [Click for Latest Product Info] in the help of the provided Everio MediaBrowser software.</li> </ul>

■ To reset the camcorder when it does not operate normally

- ① Close the LCD monitor and remove the power supply (battery pack or AC adapter) from the camcorder, then reattach it.
- ② Execute [FACTORY PRESET]. (☞ p. 61)

## Warning Indications

Indication	Action
<b>SET DATE/TIME!</b>	<ul style="list-style-type: none"><li>● Set the clock. If the message still appears after setting the clock, the battery for the clock has been depleted. Consult your nearest JVC dealer.</li></ul>
<b>COMMUNICATING ERROR</b>	<ul style="list-style-type: none"><li>● Be sure to use JVC battery packs.</li></ul>
<b>NOT FORMATTED</b>	<ul style="list-style-type: none"><li>● Select [OK] and select [YES] to perform formatting.</li></ul>
<b>FORMAT ERROR!</b>	<ul style="list-style-type: none"><li>● Check the operating procedure, and perform once again.</li><li>● Turn off the camcorder, and turn it on again.</li></ul>
<b>DATA DELETION ERROR</b>	
<b>BUILT-IN MEMORY ERROR!</b>	<ul style="list-style-type: none"><li>● Turn off the camcorder, and turn it on again.</li><li>● If the problem persists, backup all data, and then perform formatting (All data is deleted).</li></ul>
<b>MEMORY CARD ERROR!</b>	<ul style="list-style-type: none"><li>● Turn off the camcorder, and turn it on again.</li><li>● Remove and re-insert the SD card (MultiMediaCard cannot be used).</li><li>● Remove any dirt from the SD card terminals.</li><li>● Insert the SD card before switching the power on.</li><li>● Turn off the camcorder, and turn it on again.</li><li>● If the problem persists, backup all data, and then perform formatting (All data is deleted).</li></ul>
<b>CANNOT TAKE MORE STILL IMAGES AT THE MOMENT</b>	<ul style="list-style-type: none"><li>● Stop video recording, and then record a still image. (If an SD card is removed or inserted during video recording, a still image cannot be recorded.)</li></ul>
<b>RECORDING CANCELLED</b>	<ul style="list-style-type: none"><li>● Set [REC MEDIA FOR VIDEO] to [SD Card], then record to an SD card.</li><li>● Turn off the camcorder and then turn it on again.</li></ul>
<b>RECORDING FAILURE</b>	<ul style="list-style-type: none"><li>● Turn off the camcorder, and turn it on again.</li></ul>
<b>USE AC ADAPTER</b>	<ul style="list-style-type: none"><li>● Use the AC Adapter as power supply.</li></ul>

Indication	Action
<b>VIDEO MANAGEMENT FILE IS DAMAGED, RECOVERY IS REQUIRED TO RECORD/PLAYBACK, RECOVER?</b>	<ul style="list-style-type: none"> <li>● Select [OK] to restore.</li> </ul>
<b>UNSUPPORTED FILE!</b>	<ul style="list-style-type: none"> <li>● Use files recorded with the camcorder. (Files recorded with other device may not be played back.)</li> </ul>
<b>THIS FILE IS PROTECTED</b>	<ul style="list-style-type: none"> <li>● Switch off the [PROTECT/CANCEL] function in the MENU.</li> </ul>
<b>INSUFFICIENT SPACE</b>	<ul style="list-style-type: none"> <li>● Delete files. Move files to a PC or other device.</li> <li>● Replace the SD card with a new one.</li> </ul>
<b>NUMBER OF FOLDERS OVERFLOW</b>	<ul style="list-style-type: none"> <li>● Replace the backup destination with another disc.</li> </ul>
<b>UPPER LIMIT OF RECORDABLE NUMBER OF FOLDERS/FILES HAS BEEN REACHED</b>	<ul style="list-style-type: none"> <li>● Move the files or folder to a PC or other device, and then format the SD card.</li> <li>● Select [FILE + MANAGEMENT NO] in [FORMAT BUILT- IN MEM.] or [FORMAT SD CARD].</li> </ul>
<b>SCENE QUANTITY LIMIT EXCEEDED</b>	
<b>PLAYLIST QUANTITY EXCEEDS LIMIT</b>	<ul style="list-style-type: none"> <li>● When creating a DVD, reduce the number of playlists to be saved.</li> <li>● Reduce the number of the playlist to 99 files or less.</li> </ul>
<b>NO REGISTERED SCENES IN PLAYLIST SOME OF SCENES MAY NOT BE PLAYED BACK</b>	<ul style="list-style-type: none"> <li>● Delete the playlist, and then create a new one.</li> </ul>
<b>POWER IS OFF, OR USB DEVICE IS UNSUPPORTED</b>	<ul style="list-style-type: none"> <li>● Turn on the power of the connected USB device.</li> <li>● Connect the AC adapter to the DVD burner.</li> </ul>
<b>DVD-RW DISC HAS BEEN ALREADY USED</b>	<ul style="list-style-type: none"> <li>● Replace the disc of the DVD burner with another disc. (A DVD-RW disc can be initialized.)</li> </ul>
<b>FINALIZATION FAILED</b>	<ul style="list-style-type: none"> <li>● Replace the disc of the DVD burner with another disc.</li> </ul>
<b>NO FILES</b>	<ul style="list-style-type: none"> <li>● Slide the mode switch to select the desired mode (👤 or 📷).</li> </ul>

# Cleaning

Before cleaning, turn off the camcorder and remove the battery pack and AC adapter.

## ■ To clean the exterior

Wipe gently with a soft cloth. If the camcorder is particularly dirty, dip the cloth into diluted mild soap and wring it out well before wiping. Then wipe again with a dry cloth.

## ■ To clean the LCD monitor

Wipe gently with a soft cloth. Be careful not to damage the monitor.

## ■ To clean the lens

Wipe gently with lens cleaning paper.

### **NOTE**

- Avoid using strong cleaning agents such as benzine or alcohol.
- Mold may form if the lens is left dirty.
- When using a cleaner or chemically treated cloth, refer to the cautions for each product.

# Specifications

## Camcorder

### ■ For general

#### Power supply

DC 11 V (Using AC adapter)

DC 7.2 V (Using battery pack)

#### Power consumption

Approx. 1.8 W\*

\* When the LED light is off and the monitor backlight is set to [STANDARD] mode.

#### Rated Current Consumption: 1A

#### Dimensions (W x H x D)

54.5 mm x 65 mm x 112.5 mm

(2-1/8"x2-9/16"x4-7/16")

#### Weight

Approx. 245 g (0.54 lbs)

(incl. grip belt)

Approx. 290 g (0.64 lbs)

(incl. battery and grip belt)

#### Operating temperature

0°C to 40°C (32°F to 104°F)

#### Operating humidity

35% to 80%

#### Storage temperature

-20°C to 50°C (-4°F to 122°F)

#### Pickup

1/6" (800,000 pixels) CCD

#### Lens

F 1.8 to 4.0, f = 2.2 mm to 77.0 mm,

35:1 power zoom lens

#### Filter diameter

ø30.5 mm

#### LCD monitor

2.7" diagonally measured, LCD panel/TFT

active matrix system

#### LED Light

Within 1.5 m (4.9 ft)

(recommended shooting distance)

### ■ For video/Audio

#### Format

SD-VIDEO

#### Recording/Playback format

Video: MPEG-2

Audio: Dolby Digital (2 ch)

#### Signal format

NTSC standard

#### Recording mode (video)

ULTRA FINE: 720 x 480 pixels, 8.5 Mbps (VBR)

FINE: 720 x 480 pixels, 5.5 Mbps (VBR)

NORMAL: 720 x 480 pixels, 4.2 Mbps (VBR)

ECONOMY: 352 x 240 pixels, 1.5 Mbps (VBR)

#### Recording mode (audio)

ULTRA FINE: 48 kHz, 384 kbps

FINE: 48 kHz, 384 kbps

NORMAL: 48 kHz, 256 kbps

ECONOMY: 48 kHz, 128 kbps

### ■ For still image

#### Format

JPEG

#### Image size

832 x 624

#### Picture quality

FINE/STANDARD

### ■ For connectors

#### AV output

Video output: 1.0 V (p-p), 75 Ω

Audio output: 300 mV (rms), 1 kΩ

#### USB

Mini USB type A and B, USB 2.0 compliant

## AC Adapter

### Power requirement

AC 110 V to 240 V~, 50 Hz/60 Hz

### Output

DC 11 V ———, 1 A

# Specifications (Continued)

## Remote Control

### Power supply

DC 3 V

### Battery life

Approx. 1 year

(depending on the frequency of use)

### Operating distance

Within 5 m (16.4 ft)

### Operating temperature

0°C to 40°C (32 F° to 104° F)

### Dimensions (W x H x D)

42 mm x 14.5 mm x 91 mm  
(1-11/16" x 5/8" x 3-5/8")

### Weight

Approx. 30 g (0.07 lbs)  
(incl. battery)

Design and specifications subject to change without notice.




### Approximate recording time (for video)

Recording medium Quality	SD or SDHC Card							
	256 MB	512 MB	1 GB	2 GB	4 GB	8 GB	16 GB	32 GB
ULTRA FINE	3 min.	6 min.	14 min.	29 min.	1 hr.	1 hr. 50 min.	3 hr. 45 min.	7 hr. 30 min.
FINE	5 min.	10 min.	21 min.	43 min.	1 hr. 20 min.	2 hr. 50 min.	5 hr. 40 min.	11 hr. 20 min.
NORMAL	6 min.	13 min.	29 min.	1 hr.	1 hr. 50 min.	3 hr. 45 min.	7 hr. 30 min.	15 hr. 00 min.
ECONOMY	18 min.	36 min.	1 hr. 20 min.	2 hr. 30 min.	5 hr.	9 hr. 55 min.	20 hr. 00 min.	40 hr. 00 min.

Recording medium Quality	Built-In Memory
	16 GB
ULTRA FINE	3 hr. 45 min.
FINE	5 hr. 40 min.
NORMAL	7 hr. 30 min.
ECONOMY	20 hr. 00 min.

### Approximate number of storable images (for still image)

The Built-In Memory can record up to 9999 still images in either mode.

Mode	Recording medium Image size/Quality		SD or SDHC Card							
			256 MB	512 MB	1 GB	2 GB	4 GB	8 GB	16 GB	32 GB
	4:3	640 x 480 / FINE	1450	2920	5930	9999	9999	9999	9999	9999
		640 x 480 / STANDARD	2080	4180	8480	9999	9999	9999	9999	9999
	4:3	832 x 624 / FINE	970	1950	3950	7590	9999	9999	9999	9999
		832 x 624 / STANDARD	1450	2920	5930	9999	9999	9999	9999	9999
	16:9	640 x 360 / FINE	1820	3660	7420	9999	9999	9999	9999	9999
		640 x 360 / STANDARD	2420	4880	9890	9999	9999	9999	9999	9999

The recordable time and the number of still images are approximate and may differ depending on the recording environment, the condition of the SD card, or the remaining battery power.

# Cautions

## AC Adapter

### When using the AC adapter in areas other than the USA

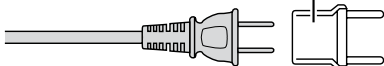
The provided AC adapter features automatic voltage selection in the AC range from 110 V to 240 V.

### USING HOUSEHOLD AC PLUG ADAPTER

In case of connecting the unit's power cord to an AC wall outlet other than American National Standard C73 series type use an AC plug adapter, called a "Siemens Plug", as shown.

For this AC plug adapter, consult your nearest JVC dealer.

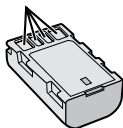
Plug Adapter



## Battery Packs

The supplied battery pack is a lithium-ion battery. Before using the supplied battery pack or an optional battery pack, be sure to read the following cautions:

Terminals



### ● To avoid hazards

... do not burn.

... do not short-circuit the terminals. Keep it away from metallic objects when not in use. When transporting, make sure the provided battery cap is attached to the battery. If the battery cap is misplaced, carry the battery in a plastic bag.

... do not modify or disassemble.

... do not expose the battery to temperatures exceeding 60°C, as this may cause the battery to overheat, explode or catch fire.

... use only specified chargers.

### ● To prevent damage and prolong service life

... do not subject to unnecessary shock.

... charge within the temperature range of 10°C to 35°C (50°F to 95°F). This is a chemical reaction type battery — cooler temperatures impede chemical reaction, while warmer temperatures can prevent complete charging.

... store in a cool, dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.

... fully charge and then fully discharge the battery every 6 months when storing the battery pack over a long period time.

... remove from charger or powered unit when not in use, as some machines use current even when switched off.



### ATTENTION:

The battery you have purchased is recyclable. Please call 1-800-8-BATTERY for information on how to recycle this battery.

## Recording Medium

### ● Be sure to follow the guidelines below to prevent corruption or damage to your recorded data.

- Do not bend or drop the recording medium, or subject it to strong pressure, jolts or vibrations.
- Do not splash the recording medium with water.
- Do not use, replace, or store the recording medium in locations that are exposed to strong static electricity or electrical noise.
- Do not turn off the camcorder power or remove the battery or AC adapter during shooting, playback, or when otherwise accessing the recording medium.
- Do not bring the recording medium near objects that have a strong magnetic field or that emit strong electromagnetic waves.
- Do not store the recording medium in locations with high temperature or high humidity.
- Do not touch the metal parts.

## LCD Monitor

### ● To prevent damage to the LCD monitor, DO NOT

... push it strongly or apply any shocks.

... place the camcorder with LCD monitor on the bottom.

### ● To prolong service life

... avoid rubbing it with coarse cloth.

# Cautions (Continued)

## Main Unit

### ● For safety, DO NOT

- ... open the camcorder's chassis.
  - ... disassemble or modify the unit.
  - ... 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.
  - ... place naked flame sources, such as lighted candles, on the apparatus.
  - ... expose the apparatus to dripping or splashing.
  - ... leave dust or metal objects adhered to the power plug or an AC wall outlet.
  - ... insert any objects in the camcorder.
- ### ● 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.
  - ... 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.

### ● 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.
- ... in high places such as on a TV. Leaving the unit in high places while a cable is connected may result in a malfunction if the cable is caught and the unit falls onto the floor.

### ● 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.
- ... expose the lens to direct sunlight.
- ... swing it excessively when using the hand strap.
- ... swing the soft camcorder case excessively when the camcorder is inside it.

### ● To prevent the unit from dropping,

- Fasten the grip belt securely.
  - When using the camcorder with a tripod, attach the camcorder to the tripod securely.
- If the camcorder drops, you may be injured and the camcorder may be damaged. When a child uses the unit, there must be parental guidance.

## Declaration of Conformity

Model Number: GZ-MS130U

Trade Name: JVC

Responsible party: JVC AMERICAS CORP.

Address: 1700 Valley Road Wayne, N. J. 07470

Telephone Number: 973-317-5000

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not approved by JVC could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

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

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



# Memo

ENGLISH

FURTHER  
INFORMATION

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