

JVC



LYT2061-002B-M

INSTRUCTIONS

使用说明



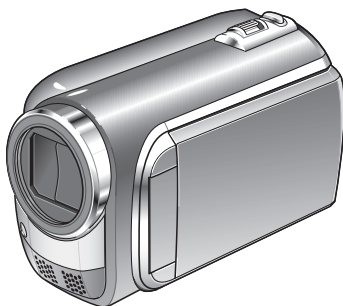
CAMCORDER

摄像机

GZ-HD320 **AG/AH**

GZ-HD310 **AH**

GZ-HD300 **AG/AH**



Dear Customers

Thank you for purchasing this camcorder. Before use, please read the safety information and precautions contained in pages 6 and 7 to ensure safe use of this product.

尊敬的顾客

感谢您购买此款摄像机。在使用之前，请仔细阅读说明书第 6 页和第 7 页上的使用安全注意事项，以保证安全使用本产品。



Easy Start Guide

Charge the battery before recording

Turn off the camcorder and attach the battery pack.

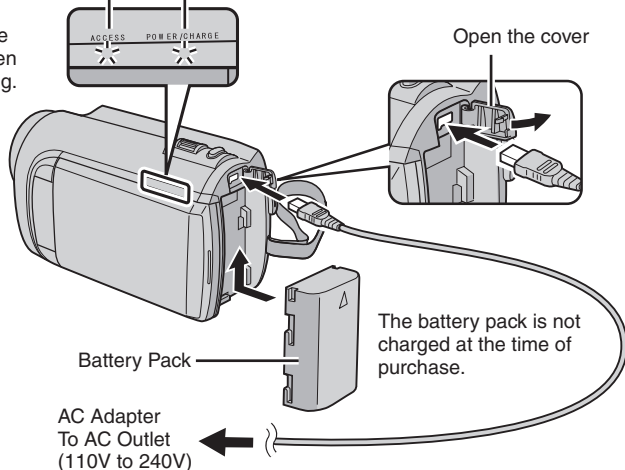
Access lamp

blinks: Accessing files

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

Power/charge lamp

blinks: Charging
goes out: Charging finished



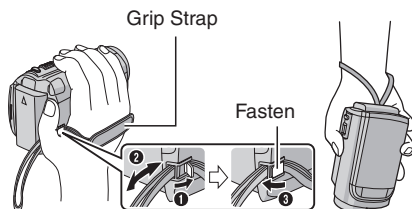
CAUTION

- 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

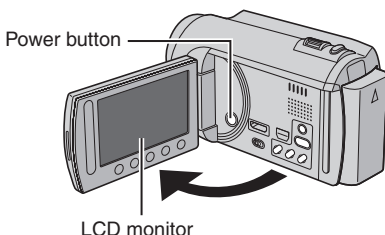
Adjust the strap and fasten.

- Fasten the strap when you grip the camcorder.
- When carrying the camcorder, please be careful not to drop it.



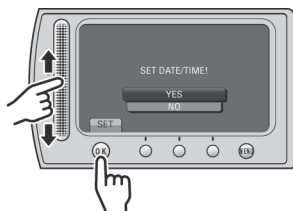
Date/Time Setting

- 1 Open the LCD monitor to turn on the camcorder



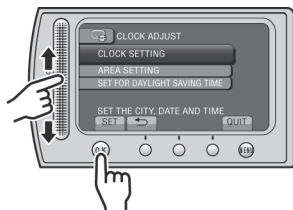
- 2 Select [YES] within 10 seconds

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

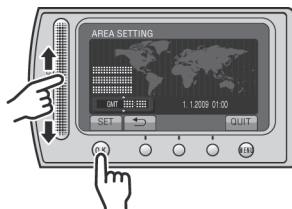


- When the message disappears, press the power button for at least 2 seconds to turn off the power, and then press it again for at least 2 seconds.
- Touch the sensors with your finger. The sensors do not function if you touch them with your finger nail or with gloves on.

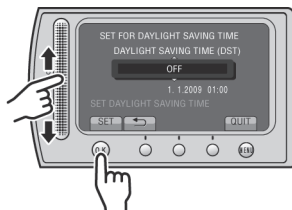
- 3 Select [CLOCK SETTING]



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

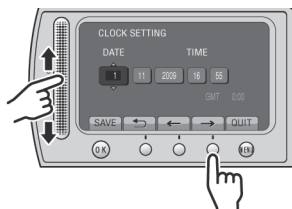


- 5 Select [ON] if daylight saving time is observed



- 6 Set the date and time

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

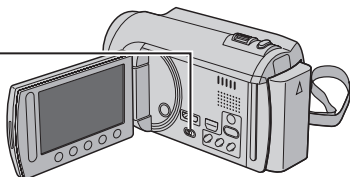


Video recording

CAUTION

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

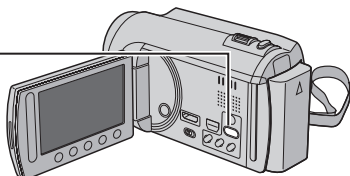
1 Slide the mode switch to select (video) mode



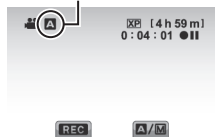
2 Select recording mode (REC)



The mode changes when you press the button.



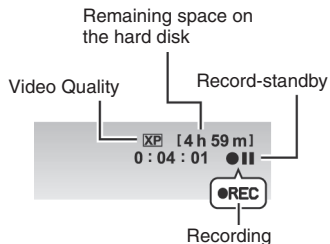
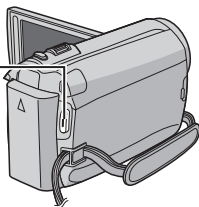
The auto recording indicator appears.



3 Start recording



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



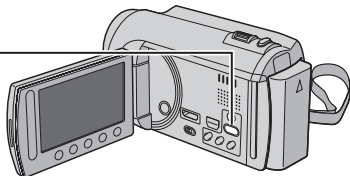
Playing back

1 Select playback mode (PLAY)

PLAY / REC



The mode changes when you press the button.



2 Select the desired file

Index screen



3 Select ► (Touch OK)

Playback screen



- To perform operations such as forward search or reverse search (➡ p. 21)
- To view files on TV (➡ p. 24)

CAUTION

Do not forget to make copies after recording!

- To copy files onto discs (➡ p. 27)
- To dub files to a VCR/DVD recorder (➡ p. 29)
- To edit files on your computer (➡ p. 30)

Safety Precautions

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

CAUTIONS:

- If you notice smoke or a peculiar smell coming from the camcorder or AC Adapter, shut it down and unplug it immediately. Continue using the camcorder or AC Adapter under these conditions could lead to fire or electric shock. Contact your JVC dealer. Do not attempt to repair the malfunction yourself.
- To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel.
- When you are not using the AC adapter for a long period of time, it is recommended that you disconnect the power cord from AC outlet.
- In certain areas, use the conversion plug depending on the type of your AC wall outlet.

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.

WARNING:

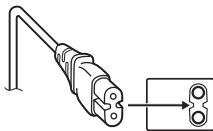
The battery pack, the camcorder with battery installed, and the remote control with battery installed should not be exposed to excessive heat such as direct sunshine, fire or the like.

CAUTION:

The mains plug shall remain readily operable.

CAUTION:

To avoid electric shock or damage to the unit, first firmly insert the small end of the power cord into the AC Adapter until it is no longer wobbly, and then plug the larger end of the power cord into an AC outlet.



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, 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 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.



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

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

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- iTunes, iMovie, iPhoto are trademarks of Apple Inc., registered in the U.S. and other countries.
- YouTube and the YouTube logo are trademarks and/or registered trademarks of YouTube LLC.
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x.v.Colour
HDMI
REGISTERED FOR MULTIMEDIA INTERFACES

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PC OPERATION

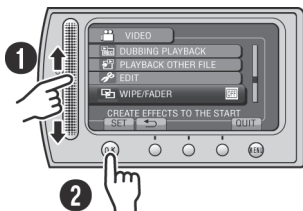
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FURTHER INFORMATION

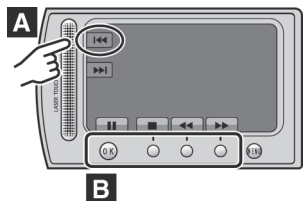
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How to use the Touch Sensor

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.

Read these INSTRUCTIONS to enjoy your CAMCORDER.

For more details on the operations, refer to the GUIDEBOOK in the supplied CD-ROM.



In order to view the GUIDEBOOK, Adobe® Acrobat® Reader™ or Adobe® Reader® must be installed.

Adobe® Reader® can be loaded from Adobe's web site:

<http://www.adobe.com/>

NOTE

Select your desired language with a single click.

The model name is indicated on the bottom of your camcorder.

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.

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

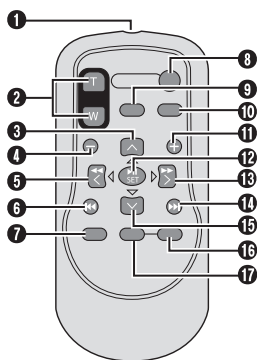
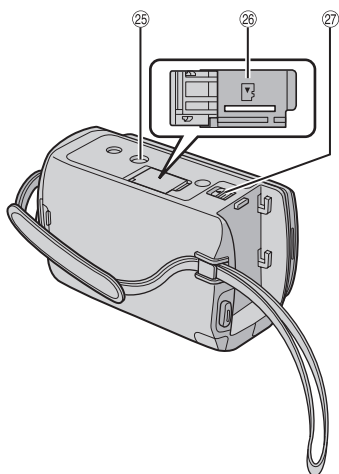
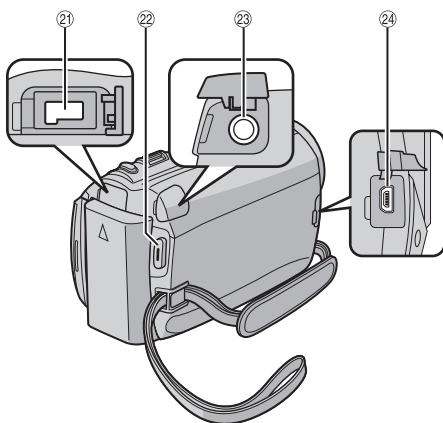
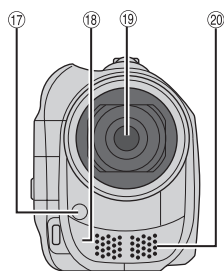
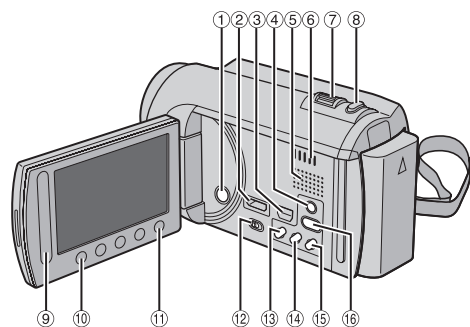
- Be sure to use the JVC BN-VF808U/VF815U/VF823U battery packs. This product includes patented and other proprietary technology and is made to be used with the JVC battery and not with other batteries. JVC cannot guarantee safety or performance of this product when it is operated by other batteries.
- 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 consult your nearest JVC dealer

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

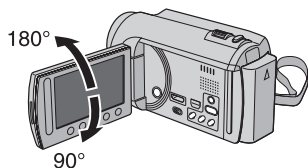
Because camcorders may be used for demonstration in a shop, the demonstration mode is set to on by default
To deactivate the demonstration mode, set [DEMO MODE] to [OFF].

Index



NOTE

- Be careful not to cover 17, 18, 19, and 20 during shooting.
- The LCD monitor can rotate 270°.



Camcorder

- ① Power Button
- ② HDMI Mini Connector (➡ p. 24)
- ③ Component Connector (➡ p. 13)
- ④ **DISPLAY** Button (➡ p. 13)
- ⑤ Speaker
- ⑥ Ventilation hole
- ⑦ Zoom Lever (➡ p. 20)
Speaker Volume Control
- ⑧ **SNAPSHOT** Button (➡ p. 19)
- ⑨ Touch Sensor
- ⑩ **OK** Button
- ⑪ **MENU** Button
- ⑫ Mode Switch [👤, 📷]
- ⑬ **UPLOAD** Button (➡ p. 36)
TITLE Button
- ⑭ **EXPORT** Button (➡ p. 35)
- ⑮ **DIRECT DISC** Button (➡ p. 28)
INFO Button (➡ p. 20)
- ⑯ **PLAY/REC** Button (➡ p. 18, 19, 21, 22)
- ⑰ LED Light (➡ p. 20)
- ⑱ Remote Sensor
- ⑲ Lens
- ⑳ Stereo Microphone
- ㉑ DC Connector
- ㉒ **START/STOP** Button (➡ p. 18)
- ㉓ AV Connector (➡ p. 25, 29)
- ㉔ USB Connector (➡ p. 27, 31)
- ㉕ Tripod Mounting Socket
- ㉖ microSD Card Slot
- ㉗ Battery Release Button

Remote Control

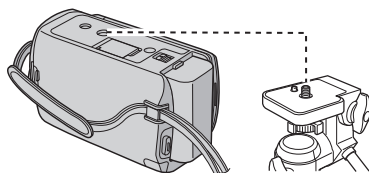
- ① Infrared Beam Transmitting Window
- ② **ZOOM (T/W)** Buttons (Zoom in/Out)
- ③ Up Button
- ④ Skip Backward Button
- ⑤ Left Button
- ⑥ Back Button
- ⑦ **PLAYLIST** Button
- ⑧ **START/STOP** Button
- ⑨ **S.SHOT (SNAPSHOT)** Button
- ⑩ **INFO** Button
- ⑪ Skip Forward Button
- ⑫ **PLAY/PAUSE/SET** Button
- 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

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.

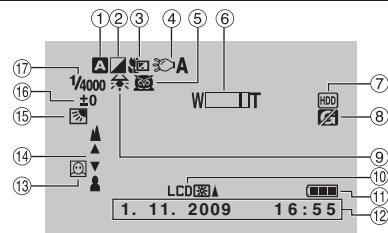


NOTE

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

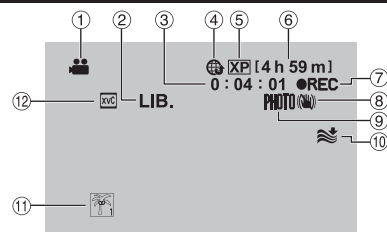
Indications on LCD Monitor

During both Video and Still Image Recording



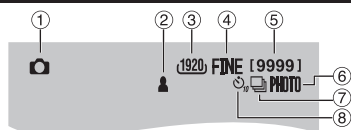
- ① Selected Recording Mode Indicator (p. 23)
A: Auto Mode
M: Manual Mode
- ② Effect Mode Indicator
- ③ Tele Macro Mode Indicator
- ④ LED Light Indicator (p. 20)
- ⑤ Scene Select Indicator
- ⑥ Zoom Indicator (p. 20)
- ⑦ Recording Medium Indicator
- ⑧ Drop Detection Indicator (Appears when [DROP DETECTION] is set to [OFF].)
- ⑨ White Balance Indicator
- ⑩ Monitor Backlight Indicator
- ⑪ Battery Indicator
- ⑫ Date/Time (p. 15)
- ⑬ Face Detection Indicator (p. 18, 19)
- ⑭ Manual Focus Adjustment Indicator
- ⑮ Backlight Compensation Indicator
- ⑯ Brightness Control Indicator
- ⑰ Photometry Area Control Indicator
- ⑱ Shutter Speed

During Video Recording Only



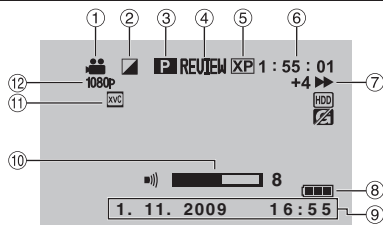
- ① Mode Indicator
- ② EXPORT Mode Indicator (p. 35)
- ③ Counter
- ④ Upload Mode Indicator (p. 36)
- ⑤ Video Quality
- ⑥ Remaining Time
- ⑦ ● REC: (Appears during recording.)
● II: (Appears during record-standby mode.)
- ⑧ Digital Image Stabilizer (DIS) Indicator (Appears when [DIS] is set to [OFF].)
- ⑨ Shooting Indicator (p. 18)
- ⑩ Wind Cut Indicator
- ⑪ Event Indicator
- ⑫ x.v.Colour™

During Still Image Recording Only



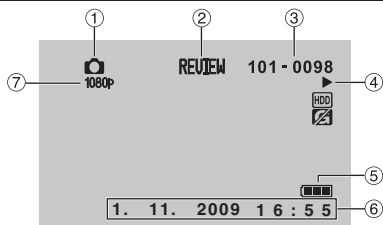
- ① Mode Indicator
- ② Focus Indicator (p. 19)
- ③ Image Size
- ④ Image Quality: FINE (fine) or STD (standard)
- ⑤ Remaining Number of Shots
- ⑥ Shooting Indicator (p. 19)
- ⑦ Shutter Mode Indicator
- ⑧ Self-Timer Indicator

During Video Playback



- ① Mode Indicator
- ② Wipe/Fader Effect Indicator
- ③ Playlist Playback Indicator (Appears when playing back a playlist.)
- ④ Quick Review Indicator (⏮ p. 18)
- ⑤ Video Quality
- ⑥ Counter
- ⑦ Playback Mode
 - ▶ : Playback
 - ⏸ : Pause
 - ▶▶ : Forward Search
 - ◀◀ : Reverse Search
 - ▶▶▶ : Forward Slow-Motion
 - ◀◀◀ : Reverse Slow-Motion
 (The number on the left shows speed.)
- ⑧ Battery Indicator
- ⑨ Date/Time (⏮ p. 15)
- ⑩ Volume Level Indicator
- ⑪ x.v.Colour™
- ⑫ Output with 1080p

During Still Image Playback



- ① Mode Indicator
- ② Quick Review Indicator (⏮ p. 19)
- ③ Folder/File Number
- ④ Slide Show Playback Indicator
- ⑤ Battery Indicator
- ⑥ Date/Time (⏮ p. 15)
- ⑦ Output with 1080p

Switching indication modes on LCD monitor

Each time you touch **DISPLAY**, indications on LCD monitor switch as shown below:

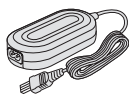
In recording mode:

All indications/Indications for selected functions

In playback mode:

All indications/Only date and time/No indications

Accessories

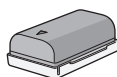


AP-V20M

AC Adapter



Power Cord

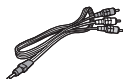


BN-VF808U

Battery Pack



Component Cable



AV Cable



USB Cable



RM-V751U

Remote Control



CR2025

Lithium Battery
Pre-installed in the
remote control.



CD-ROM

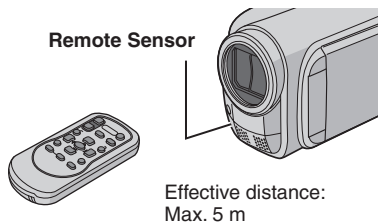
NOTE

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

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



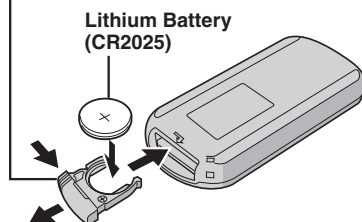
NOTE

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.

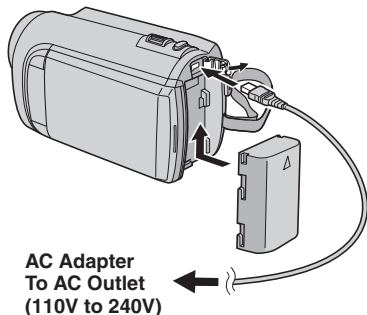
Lock Tab



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.



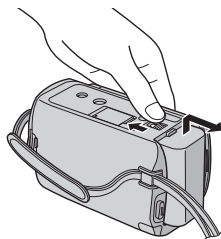
AC Adapter
To AC Outlet
(110V to 240V)

- 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 20.

Battery pack	Charging time
BN-VF808U (Provided)	1 h 50 m
BN-VF815U	2 h 40 m
BN-VF823U	3 h 40 m

- 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].

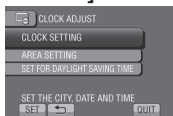


- 4 Select [CLOCK ADJUST].



Necessary Settings before Use (Continued)

5 Select [CLOCK SETTING].



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

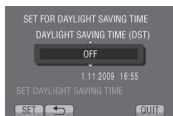
Selected area is highlighted

Principal city of the selected area

Time difference to GMT



7 Select [ON] if daylight saving time is observed.



8 Set the date and time.

Change the setting by using the touch sensor and select [→] to set.



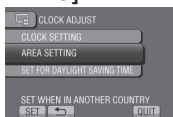
9 Select [SAVE].

To reset the setting, select [QUIT].

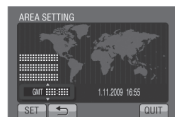
Setting the clock to local time when traveling

After performing steps 1-4 (p. 15)

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].

Language Setting

The language on the display can be changed.

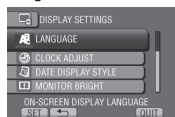
1 Open the LCD monitor to turn on the camcorder.

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].

Other Settings

Using a microSD Card

The camcorder is programmed to record on the built-in hard disk when it is shipped from the factory. You can change the recording medium to microSD card.

- Operations are confirmed on the following microSD cards.
 - Panasonic
 - TOSHIBA
 - SanDisk
 - ATP

Video recording:

Class 4 or higher compatible microSDHC card (4 GB to 8 GB)

For UXP mode, use Class 6 or higher.

Still image recording:

microSD card (256 MB to 2 GB) or microSDHC card (4 GB to 8 GB)

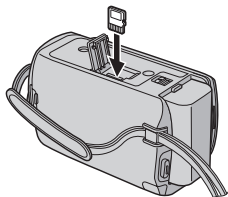
- If other media are used, they may fail to record data correctly, or they may lose data that had already been recorded.
- MultiMediaCards are not supported.
- Video data may not be recorded onto the microSD cards on which video data have already been recorded using the devices from other manufacturers.

Insert a microSD card

Preparation:

Close the LCD monitor to turn off the camcorder.

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



- 3 Close the microSD card cover.

To remove a microSD card

Push the microSD card once.

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

NOTE

- Insert and remove the microSD 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.

Change the recording medium

Set [REC MEDIA FOR VIDEO] and [REC MEDIA FOR IMAGE] to [SD].



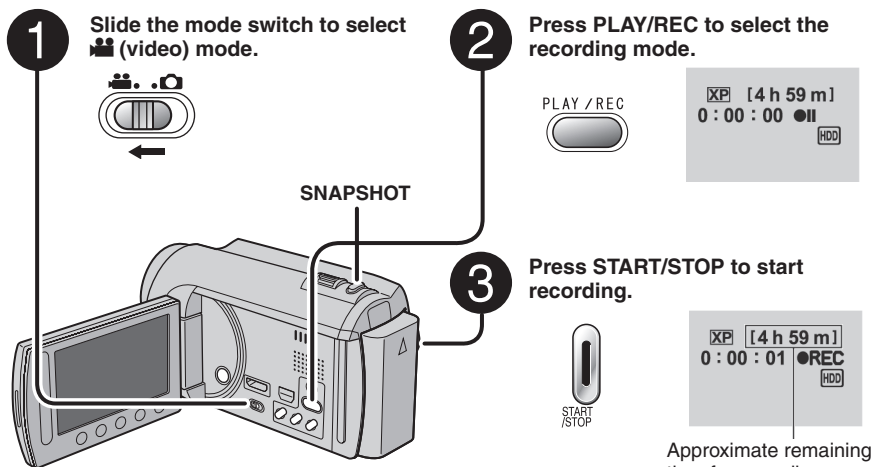
Format a microSD card when using it for the first time

Select [FORMAT SD CARD] to format the card.



Recording Files

Video Recording



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

■ To stop recording

Press **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 video quality

Change the settings in [VIDEO QUALITY].

■ To turn on the face detection mode

Select .



NOTE

- The video recording mode is automatically selected when you turn off the camcorder and then turn on again.
- If the camcorder is not operated for 5 minutes while the power is on, it turns itself off automatically to conserve power.
- Do not move or shake the camcorder suddenly during recording.
If you do so, the driving sound (hum) of the hard disk may be recorded.
- If the LCD monitor is turned upside down, is not displayed. Change the setting when the LCD monitor is in the normal position.

Still Image Recording

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

- 2 Press **PLAY/REC** to select the recording mode.
 
- 3 Press and hold **SNAPSHOT** 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 image quality

Change the settings in [IMAGE QUALITY].

■ To change the image size

Change the settings in [IMAGE SIZE].

■ To record still images continuously

Set to [CONTINUOUS SHOOTING] in [SHUTTER MODE].

4 Press **SNAPSHOT** fully to take a still image.



■ To turn on the face detection mode

Select .



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.
- The sides of still images recorded in 16:9 size may be cut off when printed. Check whether 16:9 size prints can be printed at your local print store.
- If the LCD monitor is turned upside down,  is not displayed. Change the setting when the LCD monitor is in the normal position.

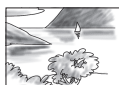
Recording Files (Continued)

Zooming

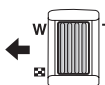
Preparation:

- Select or mode.
- Select the recording mode.

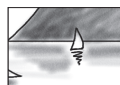
Zoom out



W: Wide angle



Zoom in



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
[20X / OPTICAL]	[20X / OPTICAL]

■ To change the maximum zoom ratio (mode only)

Change the settings in [ZOOM].

NOTE

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

LED Light

Preparation:

- Select or mode.
- Select the recording mode.

1 Touch MENU.

2 Select [LIGHT].

3 Select the desired setting.

ON	The LED light remains on regardless of the surrounding conditions.
AUTO	The LED light turns on automatically when shooting in insufficient light conditions.
OFF	Deactivates this function.

Checking the Remaining Battery Power

mode:

Press INFO twice or INFO and then select



mode:

Press INFO.



■ To quit the 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 Media

Preparation:

- Select mode.
- Select the recording mode.

Press INFO.



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

■ To change the video quality

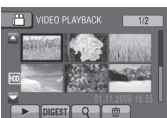
- 1) Select the video quality.
- 2) Select [SET].

■ To quit the screen

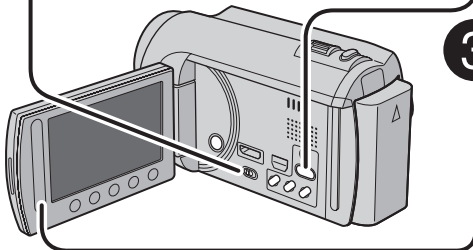
Select [QUIT].

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.
- 3** 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 the beginning of each video

Touch **[DIGEST]**.

NOTE

- In some cases, parts of video other than the beginning may be played back.
- Some video may not be played back at all.

■ To delete a video

Select  when playback is stopped.

■ To change the number of thumbnails

(6 thumbnails/12 thumbnails)

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

■ To zoom in the video during pause (Remote Control Only)

Press **T** on the remote control.

- Press , , ,  on the remote control to move the zoom area.
- Press and hold **W** on the remote control to cancel zoom in.

■ Operations during Video Playback

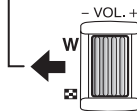
On-screen buttons

-  : 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

Playing Back Files (Continued)

Still Image Playback

1

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



2

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



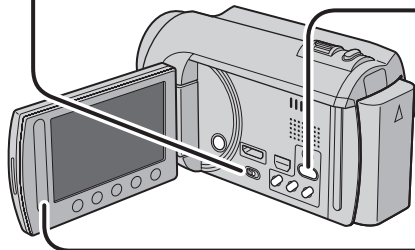


The index screen appears.

3

Select the desired file.





■ 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/12 thumbnails)

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

■ To zoom in the image during playback (Remote Control Only)

Press **T** on the remote control.

- Press **^**, **v**, **<**, **>** on the remote control to move the zoom area.
- Press and hold **W** on the remote control to cancel zoom in.

■ 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

Manual Recording

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

Changing to Manual Recording Mode

Preparation:

- Select or mode.
- Select the recording mode.

Select [A/M] twice.



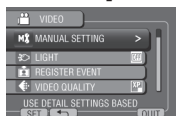
■ To return to the auto recording mode

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

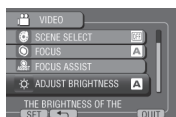
Manual Setting in Menu

In the manual recording mode:

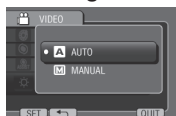
- 1 Touch MENU.
- 2 Select [MANUAL SETTING].



- 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].

Viewing Files on TV

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

Connection with TV

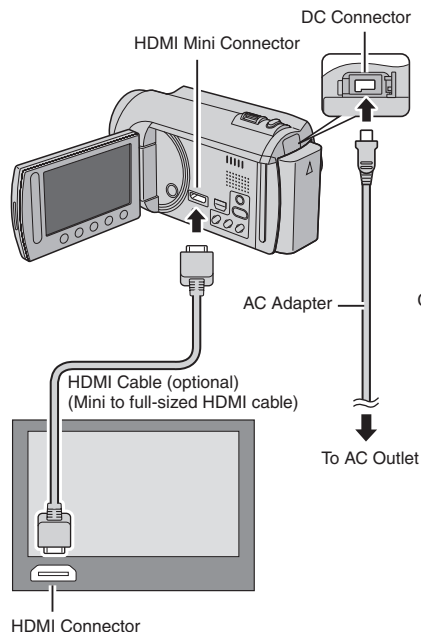
You can output videos from the HDMI connector, COMPONENT connector, or AV connector. Select the connector that best suits your television.

Preparation:

Turn off all units.

■ To connect using the HDMI mini connector

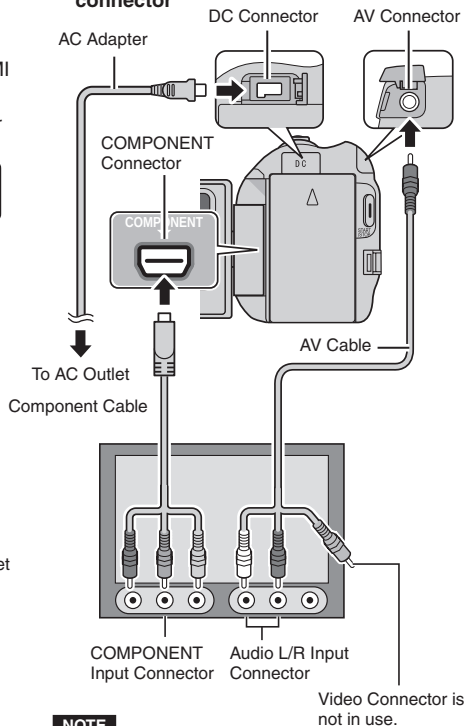
We recommend using the Category 2 HDMI cable (High Speed cable).



NOTE

- When connecting to the HDMI cable, the image or sound may not appear on the TV properly depending on the TV connected. In such cases, perform the following operations.
 - 1) Disconnect the HDMI cable and connect it again.
 - 2) Turn off and on the camcorder again.

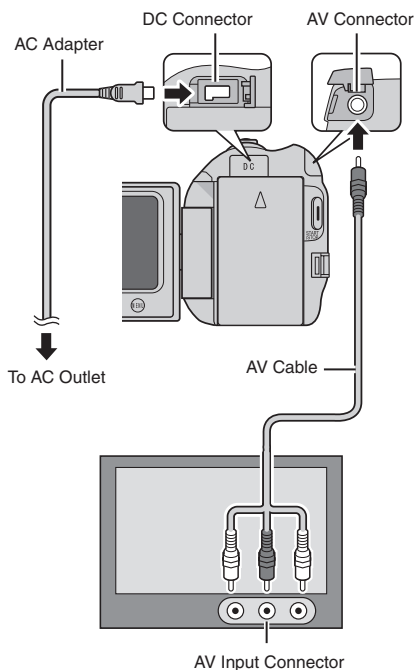
■ To connect using the COMPONENT connector



NOTE

Change the settings in [COMPONENT OUTPUT] according to the connection.

■ To connect using the AV connector



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. 21, 22)

-
- To display camcorder's on-screen display on TV
Set [DISPLAY ON TV] to [ON].

NOTE

When the video was recorded with x.v.Colour™ set to [ON], change the x.v.Colour™ setting on TV. For details, refer to the TV's instruction manual.

NOTE

Change the settings in [VIDEO OUTPUT] to suit the screen size of your television.

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.

Capturing a Still Image from a Video

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

Preparation:

- Select  mode.
- Select the playback mode.

Press SNAPSHOT when playback is paused.

SNAPSHOT



NOTE

- Captured still images are stored at a resolution of 1920 x 1080. 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

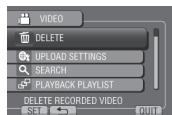
- Protected files cannot be deleted. To delete them, release the protection first.
- Once files are deleted, they cannot be restored. Check files before deleting.

Preparation:

- Select  or  mode.
- Select the playback mode.

1 Touch MENU.

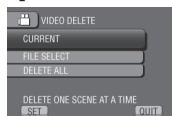
2 Select [DELETE].



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].

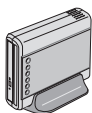
Copying Files

Types of Copying and Connectable Device



The Camcorder

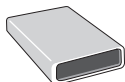
You can copy files between the HDD and microSD card with this camcorder alone.



DVD Burner

CU-VD50/CU-VD3

You can copy files recorded on this camcorder onto discs.



BD Burner

LaCie Model No. 301828

You can copy files recorded on this camcorder onto discs.



USB External Hard Disk Drive

You can copy files recorded on this camcorder onto a USB external hard disk drive.



PC

You can copy files from the camcorder to a disc using a PC.



VCR/DVD Recorder

You can dub video recorded on this camcorder onto VCR/DVD recorder.

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.
- Recommended USB external hard disk drive

Seagate	FreeAgent™ Desk series
LaCie	Design by Neil Poulton series

- USB external hard disk drive with the capacity over 2 TB cannot be used.

Using a BD/DVD Burner

The files in the camcorder can be backed up to a disc using a BD/DVD burner.

- Use one of the following methods to view the disc. (If you try to play back the disc with incompatible player, the disc may not be ejected.)

- Playback the disc using the camcorder.
- Playback the disc using a BD/DVD burner.*
- Playback on a PC.*
- Playback the disc using a BD/DVD player that supports BD-MV and AVCHD.*

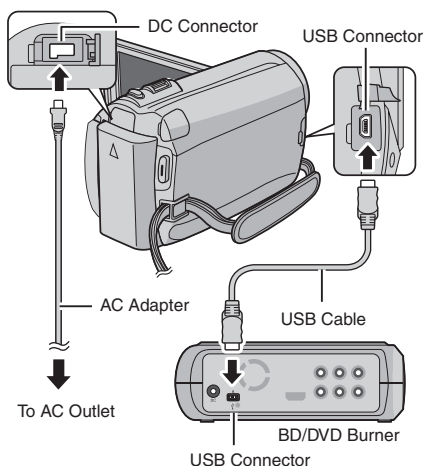
* The DVD must first be finalized on the camcorder.

- Other than the created BD/DVD using a BD/DVD burner cannot be played.
- When connecting a DVD burner (CU-VD50) to a TV, you can play back the created disc without using the camcorder. When playing back disconnect the USB cable.

Connection with a BD/DVD Burner

Preparation:

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



NOTE

- Refer also to the optional BD/DVD burner's instruction manual.
- When connecting to a DVD burner, use the USB cable that came with the DVD burner.
- When connecting to a BD burner, use a USB cable with Mini-A(Male) to B(Male) connectors. JVC's QAM0852-001 (optional) is recommended. Refer to page 34 for details.

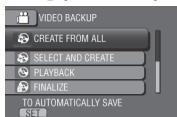
Copying Files (Continued)

Backup All Files

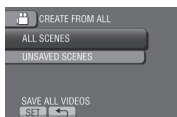
Preparation:

- Select or mode.
- Select HDD or microSD card.
- Connect the camcorder to the BD/DVD burner.
- When using a BD burner, select [CHANGE REC. MEDIA] and select the disc type.

1 Select [CREATE FROM ALL] (mode) or [SAVE ALL] (mode).



2 Select the desired menu.



- mode: [ALL SCENES]
 mode: [ALL IMAGES]
All files in the recording medium are copied.
- mode: [UNSAVED SCENES]
 mode: [UNSAVED IMAGES]
Files that have never been copied are automatically selected and copied.

3 Select [EXECUTE].



4 Select [YES] or [NO].

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

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 discs are automatically selected and copied.

1 Open the LCD monitor to turn on the camcorder.

2 Press DIRECT DISC.



3 Select [YES] or [NO].

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

4 Select [EXECUTE].



- The 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 disc creation, select [CANCEL].

■ To quit the screen

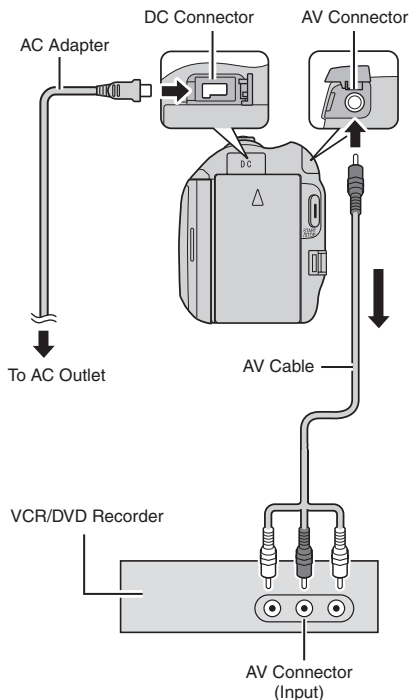
- 1) Select [QUIT].
- 2) When [QUIT?] appears, select [YES].

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].

Switching indication modes on LCD monitor

Each time you touch **DISPLAY**, indications on LCD monitor switch as shown below:

In recording mode:

All indications/Indications for selected functions

In playback mode:

All indications/Only date and time/No indications

Creating a Disc Using a PC

Please read the “JVC Software License Agreement” in the CD-ROM instruction before you install software. You can copy the data from the camcorder and create a disc 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: Intel® Core™ Duo, 1.66 GHz or higher
(Intel® Core™ 2 Duo 2.13 GHz or higher recommended.)

RAM: At least 2 GB

Windows XP

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

CPU: Intel® Core™ Duo, 1.66 GHz or higher
(Intel® Core™ 2 Duo 2.13 GHz or higher recommended.)

RAM: At least 1 GB

To check the PC specification

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

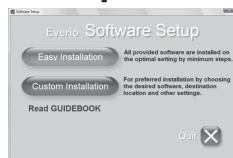
NOTE

- Make sure your PC has a recordable BD/DVD drive.
- If your system does not meet the requirements, it is recommended to copy files using the BD/DVD burner. (p. 27)
- Macintosh users may use the software included with their Macintosh (iMovie '08, iPhoto) to import files to their computer.

Preparation:

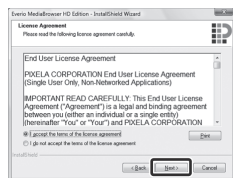
Load the provided CD-ROM into the PC. In Windows Vista, the auto play dialog box appears.

1 Click [Easy Installation].

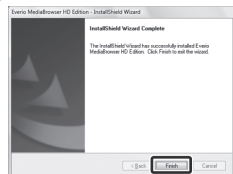


Follow the on-screen instructions.

2 Click [Next].



3 Click [Finish].



Everio MediaBrowser icons are created on the desktop.



Everio MediaBrowser Player is a software that plays AVCHD discs on the PC. (DVD discs cannot be played.)

To see the Instruction Guide for Everio MediaBrowser

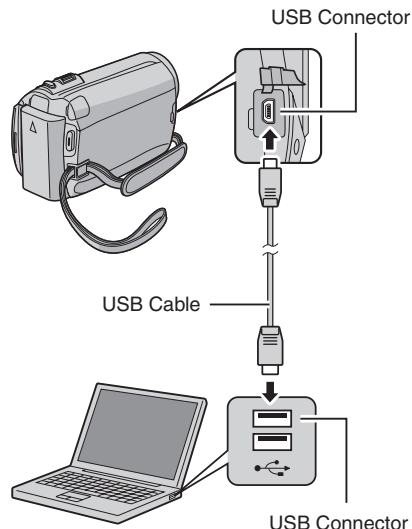
- Double-click the icon of Everio MediaBrowser.
- Click [Help], and click [MediaBrowser Help].



2 Making Backup on the PC

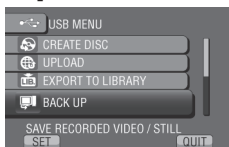
Preparation:

- 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.

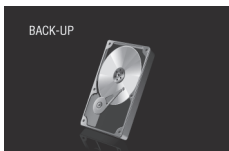


1 Open the LCD monitor to turn on the camcorder.

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 back up many videos.

Creating a Disc Using a PC (Continued)

④ 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.

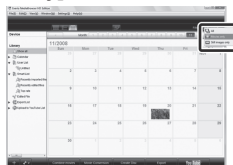
Preparation:

Make backup on the PC.

1 Double-click the icon to open the calendar.



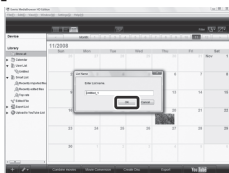
2 Select [Movies only].



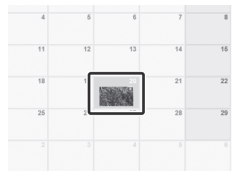
3 Click [+].



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

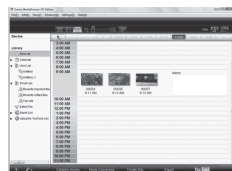


5 Click the recording date.



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.

❶ Copying Files to a disc

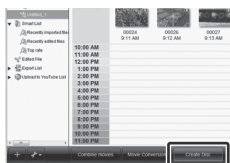
Everio MediaBrowser supports 3 disc formats. Select the one that suits your purpose.

DVD-Video disc: Suitable if you will give the disc to your friends and relatives.

AVCHD disc: Suitable for high quality video.

BD: Suitable for high quality video with long recording time.

❶ Select the user list and click [Create Disc].



❷ Select the disc type and click [Next].



❸ Click [Select files individually] and click [Next].

To add all the files onto discs, click [Select all files displayed], then go to step 5.



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



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



❻ Click [Start].

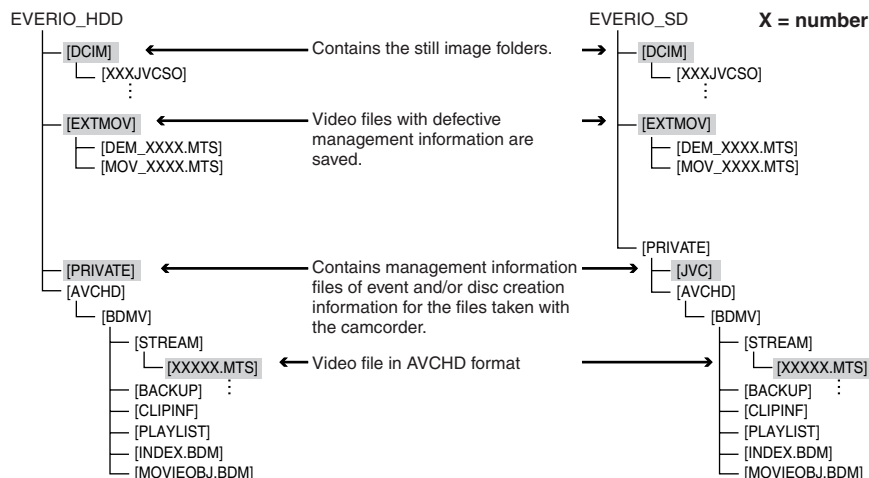


NOTE

- When copying video recorded in UXP recording mode to create an AVCHD disc, the video needs to be converted to XP recording mode before copying. Therefore, it may take longer time than copying video recorded in other modes.
- Use Everio MediaBrowser Player to playback the disc. Refer to the help of the provided Everio MediaBrowser software to operate.
- 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. 34)

Creating a Disc Using a PC (Continued)

Folder Structure and Extensions



Customer Support Information

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

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/German/French/Spanish	+800-1532-4865 (toll-free)
Other Countries in Europe	English/German/French/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/mediabrowser/e/>

Please check our website for latest information and downloading.

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:

- Select  mode.
- Select the recording mode.

Press **EXPORT** twice.



To turn off the export mode

Press **EXPORT** twice.

Changing the Export Setting

You can set the recorded videos to the export setting.

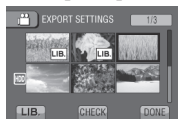
Preparation:

- Select  mode.
- Select the playback mode.

1 Press **EXPORT**.



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



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

3 Select **[DONE]**.

To cancel the export setting

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

To quit the screen

- 1) Select **[DONE]**.
- 2) Select **[YES]**.

To confirm the export setting

Press **EXPORT** on the index screen.

Transferring the Files to PC

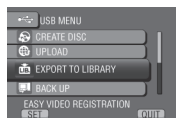
Preparation:

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.

If you 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.

Preparation:

- Select mode.
- Select the 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.

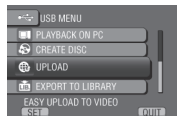
NOTE

The upload mode turns off each time recording is finished.

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].**



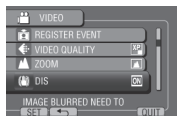
■ If you cannot upload the file to YouTube™

- 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.

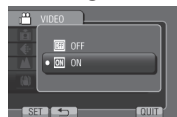
Changing the Menu Settings

1 Touch MENU.

2 Select the desired menu.



3 Select the desired setting.



■ To return to the previous screen
Select [RECALL].

■ To quit the screen
Select [QUIT].

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, 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.	● Connect the AC adapter correctly. ● Recharge the battery pack.
Display	The remaining battery display is not correct.	● Fully charge the battery pack, run it down, and then recharge it again. ● 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.
	The LCD monitor is difficult to see.	
		● The LCD monitor may be difficult to see if used in bright areas such as under direct sunlight.

Troubleshooting (Continued)

	Trouble	Action
Recording	Recording cannot be performed.	Slide the mode switch to select the desired mode (👤 or 📷).
	Vertical lines appear on recorded images.	Such a phenomenon occurs when shooting a subject illuminated by bright light. This is not a malfunction.
Playback	Sound or video are interrupted.	Sometimes playback is interrupted at the connecting section between two scenes. This is not a malfunction.
	Cannot find a recorded video.	- Select [PLAYBACK OTHER FILE] then search the video on the index screen. (Video files that have damaged management information can be played back.) - Cancel group display and date search functions. - Change the setting in [REC MEDIA FOR VIDEO] or [REC MEDIA FOR IMAGE]. (Files on other media are not displayed.)
Other problems	The camcorder operates slowly when switching between video mode and still image mode, or when switching the power on or off.	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.
	The lamp does not flash during battery pack charging.	- Check the remaining battery pack charge. (When the battery pack is fully charged, the lamp does not flash.) - 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.)
	Cannot upload the file to YouTube™	Refer to "Q&A", "Latest Information", "Download Information", etc. in [Click for Latest Product Info] in the help of the provided Everio MediaBrowser software.
	Cannot export the file to iTunes®	

■ If a malfunction occurs in the HDD

- Perform [FORMAT HDD]. (All data is deleted.)
- If this does not solve the problem, contact the JVC customer service for repairs.

■ To reset the camcorder when it does not operate normally

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

Warning Indications

Indication	Action
SET DATE/TIME!	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.
COMMUNICATING ERROR	Be sure to use JVC battery packs.
CANNOT USE IN VIDEO MODE	- Set [REC MEDIA FOR VIDEO] to [HDD]. - Replace the microSD card.
NOT FORMATTED	Select [OK] and select [YES] to perform formatting.
FORMAT ERROR!	- Check the operating procedure, and perform once again. - Turn off the camcorder, and turn it on again.
DATA DELETION ERROR	
HDD ERROR!	- Perform formatting. (All data is deleted.) - Turn off the camcorder, and turn it on again.
MEMORY CARD ERROR!	- Perform formatting. (All data is deleted.) - Remove and re-insert the microSD card. (MultiMediaCard cannot be used.) - Remove any dirt from the microSD card terminals. - Insert the microSD card before switching the power on. - Turn off the camcorder, and turn it on again.
CANNOT TAKE MORE STILL IMAGES AT THE MOMENT	Stop video recording, and then record a still image. (If an microSD card is removed or inserted during video recording, a still image cannot be recorded.)
DROP DETECTION WORKED AND THE POWER IS TURNED OFF	- Set [REC MEDIA FOR VIDEO] to [SD], then record to a microSD card. - Turn off the camcorder and turn it on again. - Prevent the camcorder from vibration and shock.
RECORDING CANCELLED	
RECORDING FAILURE	microSD card: - Remove and re-insert the microSD card. (MultiMediaCard cannot be used.) - Remove any dirt from the microSD card terminals. - Insert the microSD card before switching the power on. HDD: - Do not allow the camcorder to be subject to impact/vibrations.
PLAYBACK FAILED	

Specifications

■ General

Power supply

- DC 11 V (Using AC adapter)
- DC 7.2 V (Using battery pack)

Power consumption

- Approx. 3.5 W*
- * When the LED light is off and the monitor backlight is set to [STANDARD] mode.

Dimensions (W x H x D)

- 53 mm x 68 mm x 113 mm

Weight

- Approx. 325 g
- Approx. 370 g (incl. battery pack)

Operating temperature

- 0°C to 40°C

Storage temperature

- 20°C to 50°C

Operating humidity

- 35% to 80%

■ Camera/LCD monitor

Pickup

- 1/4.1" (3,050,000 pixels) progressive CMOS

Lens

- F 1.9 to 3.2, f = 2.9 mm to 58.0 mm,
- 20:1 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
- (recommended shooting distance)

■ Connectors

AV output

- Video output: 1.0 V (p-p), 75 Ω
- Audio output: 300 mV (rms), 1 k Ω

HDMI

- HDMI™ (V.1.3 with x.v.Colour™)

Component output

- Y, Pb, Pr component output
- Y: 1.0 V (p-p), 75 Ω
- Pb/Pr: 700 mV (p-p), 75 Ω

USB

- Mini USB type A and type 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

■ Remote Control

Power supply

- DC 3 V

Battery life

- Approx. 1 year
- (depending on the frequency of use)

Operating distance

- Within 5 m

Operating temperature

- 0°C to 40°C

Dimensions (W x H x D)

- 42 mm x 14.5 mm x 91 mm

Weight

- Approx. 30 g
- (incl. battery)

■ Still image

Format

- JPEG

Image size

- 1920 x 1080
- 1440 x 1080
- 640 x 480

Image quality

- FINE / STANDARD

■ Video

Signal format

- 1080/50i

Recording/Playback format

- Video: MPEG-4 AVC/H.264
- Audio: Dolby Digital (2ch)

Recording mode (video)

- UXP: VBR, average of 24 Mbps
- XP: VBR, average of 17 Mbps
- SP: VBR, average of 12 Mbps
- EP: VBR, average of 5 Mbps

Recording mode (audio)

- 48 kHz, 256 kbps

Design and specifications subject to change without notice.

h: hour/m: minute

Approximate recordable time (for video)

Recording medium Quality	HDD			microSD Card	
	GZ-HD300 60 GB	GZ-HD310 80 GB	GZ-HD320 120 GB	4 GB	8 GB
UXP	5 h 30 m	7 h 20 m	11 h	20 m	40 m
XP	7 h 30 m	10 h	15 h	30 m	1 h 00 m
SP	10 h	14 h	21 h	44 m	1 h 28 m
EP	25 h	33 h	50 h	1 h 40 m	3 h 20 m

Approximate number of images (for still image)

The HDD can record up to 9999 still images in either mode.

Recording medium Image size/Quality		microSD Card				
		512 MB	1 GB	2 GB	4 GB	8 GB
16:9	1920 x 1080 / FINE	510	1040	2100	4200	8420
	1920 x 1080 / STANDARD	800	1630	3210	6410	9999
4:3	1440 x 1080 / FINE	680	1370	2770	5540	9999
	1440 x 1080 / STANDARD	1060	2160	4360	8700	9999
	640 x 480 / FINE	3320	6720	9999	9999	9999
	640 x 480 / STANDARD	5980	9999	9999	9999	9999

h: hour/m: minute

Required charging/recording time (approx.)

Battery pack	Charging time	Recording time
BN-VF808U (Provided)	1 h 50 m	1 h 20 m*
BN-VF815U	2 h 40 m	2 h 50 m*
BN-VF823U	3 h 40 m	4 h 10 m*

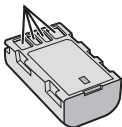
* When the LED light is off and the monitor backlight is set to [STANDARD] mode.

Cautions

Battery Pack

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. Cooler temperatures require longer charging time, or in some cases stop charging at all. Warmer temperatures prevent complete charging, or in some cases stop charging at all.
 - ... 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 of time.
 - ... remove from charger or powered unit when not in use, as some machines use current even when switched off.

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.
- When formatting or erasing data using the camcorder, only the file administration information is changed. The data is not completely erased from the hard disk. If you want to completely erase all of the data, we recommend either using commercially available software that is specially designed for that purpose, or by physically destroying the camcorder with a hammer etc.

Hard Disk

- Do not use the unit where it is subject to vibrations or loud sounds.
- If you move the unit suddenly, the drop detection function may operate and the power may be turned off.

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.

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.
- ... in places subject to excessive shock or vibration.
- ... near a television set.
- ... near appliances generating strong magnetic or electric fields (speakers, broadcasting antennas, etc.).
- ... in places subject to extremely high (over 40°C) or extremely low (under 0°C) temperatures.
- ... in places where air pressure is low (more than 3000 m above the sea level).

● 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.
- ... place the camcorder in dusty or sandy areas, such as on a beach.

● 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.

Terms

A	AC Adapter 15	M	Manual Recording 23
	AV Connection 25, 29		Menu Settings 37
B			microSD Card 17
	Battery Pack 15, 42	N	Number of Images 41
	BD/DVD Backup 27	O	On-screen recording control 18
	BD/DVD Burner 27		On-screen zoom control 20
C		P	
	CD-ROM 14, 30		Playback Zoom 21, 22
	Clock Adjust 15		Portable Media Player 35
	Component Connection 24	Q	
	Copying Files 27		Quick Review 18, 19
D		R	
	Date/Time Setting 3		Recordable Time 41
	Deleting Files 26		Recording Medium 42
	Digest Playback 21		Remaining Battery Power 20
	Dubbing Playback 29		Remaining Recording Time 20
E			Remote Control 11, 14
	Export to Library Mode 35	S	
F			Speaker Volume 21
	Face Detection 18, 19	U	
H			Uploading Files 36
	Hard Disk 42		USB Cable 27, 31
	HDMI 24	V	
I			Viewing Files on TV 24
	iTunes 35	Y	
L			YouTube 36
	Language Setting 16	Z	
	LCD Monitor 12, 42		Zoom 20
	LED Light 20		

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

记录之前对电池充电

关闭摄像机并安装电池。

存取指示灯

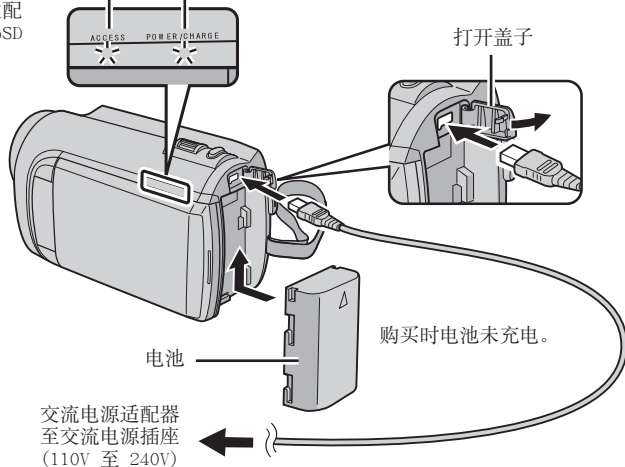
闪烁：正在存取文件

当指示灯闪烁时，不要取下交流电源适配器、电池或 microSD 插卡。

电源 / 充电指示灯

闪烁：正在充电

熄灭：充电完成



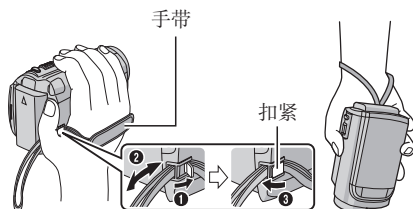
小心

- 请务必使用 JVC 电池。如果使用 JVC 电池以外的任何其他电池，则无法保证安全和性能。

手握调整

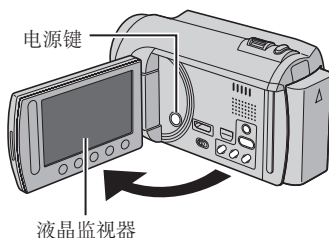
调整手带并扣紧。

- 当握住摄像机时扣紧手带。
- 携带摄像机时，小心不要掉落。



日期 / 时间设定

1 打开液晶监视器以开启摄像机



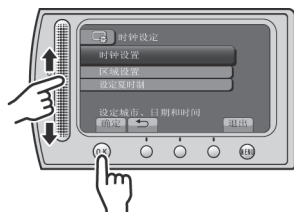
2 在 10 秒钟内选择 [是]

用您的手指在感应器上滑动。然后触一下 OK。

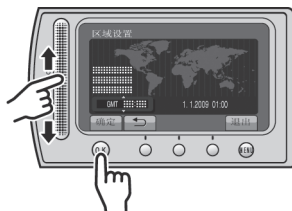


- 当此信息消失时，按住电源键至少 2 秒钟关闭电源，然后再按住该键至少 2 秒钟。
- 请用手指触摸感应器。如果用指甲或戴手套触摸，感应器不起作用。

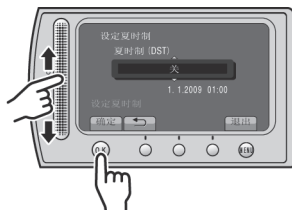
3 选择 [时钟设置]



4 选择离您使用摄像机最近的城市



5 如果夏日时有效，选择 [开]

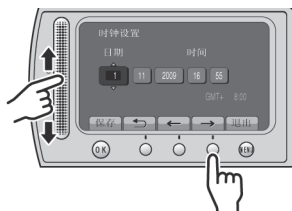


6 设定日期和时间

触摸感应器：设定日期和时间

→：将光标移到右边

OK：时钟开始

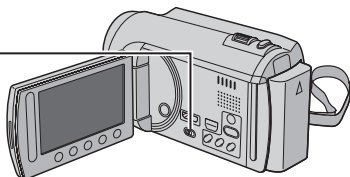


视频记录

小心

记录重要场景之前，建议进行试录。

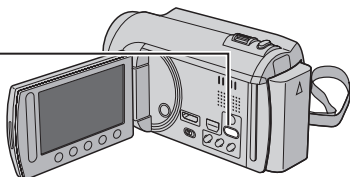
1 滑动模式开关以选择 （视频）模式



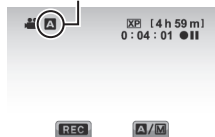
2 选择记录模式 (REC)



按该键时模式改变。



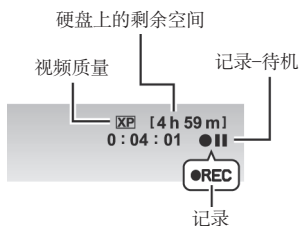
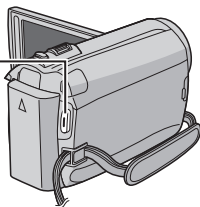
自动记录指示出现。



3 开始记录



按 **START/STOP** 键开始记录，再次按下停止。



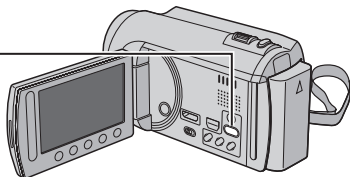
播放

1 选择播放模式 (PLAY)

PLAY / REC



按该键时模式改变。



2 选择所需文件

索引画面



3 选择 ► (触一下 OK)

播放画面



■ 执行向前搜索或向后搜索等操作 (☞ 第 21 页)

■ 在电视机上观看文件 (☞ 第 24 页)

小心

记录之后，请勿忘记进行备份！

- 复制文件到光盘 (☞ 第 27 页)
- 复录文件到磁带录像机/DVD 录像机 (☞ 第 29 页)
- 在电脑上编辑文件 (☞ 第 30 页)

安全注意事项

小心:为预防火灾或电击，切勿使本机淋雨或受潮。

警告:

- 若发现摄像机或交流电源适配器发出烟雾或异味，应立即关闭电源，或者拔下电源插头。如果此时继续使用本摄像机或交流电源适配器，将会导致火灾或电击。请与 JVC 经销商联系。切勿尝试自行修复。
- 为预防电击，请勿擅自打开机壳。机内无用户可修的零件。检修时请找特约技术人员。
- 在您长时间不用交流电源适配器时，建议您从交流电源插座上拔下电源线。
- 在某些地区，请根据交流电源墙壁插座的类型使用转换插头。

注意:

- 额定值牌（系列号码牌）和安全警告位于主机的底部和/或背面上。
- 序列号码牌在电池箱座上。
- 交流电源适配器的额定信息和安全警告位于其上部 and 下部。

小心:

请勿将电池、装有电池的摄像机、以及装有电池的遥控器暴露于直射阳光、火焰或类似高温环境下。

警告:

请将电源插头置于方便插拔的地方。

更换锂电池之警告

本机所用的电池如果处理不当，则有引起火灾或化学燃烧的危险。

请勿进行再充电、分解、加热到 100℃ 以上或丢入火中焚烧。

更换电池时，请使用 Panasonic、三洋、索尼或万胜的 CR2025 型电池。

电池更换错误，有可能引起爆炸及火灾。

- 用完的电池应及时处理。
- 严禁小孩玩弄。
- 请勿分解电池，也不可丢入火中。

将本机安装在橱柜或架子上时，为了空气流通，使机器四周保留充分的间隙（两侧、上部及后面各 10 cm 以上）。

请勿堵塞透气孔。

（如果透气孔被报纸或布等堵塞，将影响散热。）

请将本机远离明火，如点燃的蜡烛等。

处理蓄电池时，应充分考虑环境问题。请务必严格遵守当地有关蓄电池处理的规则及法律。

请勿将本机置于高湿度的环境下或溅上水滴。

请勿在浴室或多水的地方使用本机。

而且，请勿将充满水或液体的物品（化妆品及药剂、鲜花瓶、盆栽植物、杯子等），放在本机的上面。

（如果水或液体侵入本机，可能引起火灾或触电。）

不要将镜头直接对向太阳。否则会损伤眼睛并导致内部电路出现故障。还可能有引起火灾或电击的危险。

警告！

下列注意事项关系到对摄像机及用户的可能损害。抓着液晶监视器携带或拿持摄像机可能会摔落本机，或引起故障。

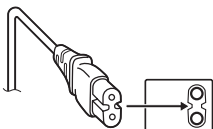
不要在不平稳的平面上使用三脚架。否则可能翻倒而使摄像机严重受损。

警告！

最好不要把摄像机接在电缆（音频/视频、S 视频等）上然后将本机放在电视机顶面上，否则不小心勾到电缆则会使摄像机摔落而受损。

警告：

为防电击或损坏本机，先将电源电线的小头紧紧插入交流电源适配器直到不再松动，然后将电源电线的大头插入交流电源插座。



如果显示此符号，仅在欧盟国家有效。

记住，本摄像机仅供用户个人使用。

任何未经许可的商业使用都是受禁止的。（即使是摄录个人欣赏用的影片、表演或展览，您最好事先获得准许。）

商标

- “AVCHD”和“AVCHD”标记是 Panasonic Corporation 和 Sony Corporation 的商标。
- 经 Dolby Laboratories 许可制造。“Dolby”和双 D 标志是 Dolby Laboratories 的商标。
- x.v.Colour™ 是 Sony Corporation 的商标。
- HDMI 是 HDMI Licensing, LLC. 的商标。
- Windows® 是 Microsoft Corporation 在美国和（或）其他国家的注册商标或商标。
- Macintosh 是 Apple Inc. 的注册商标。
- iTunes、iMovie、和 iPhoto 是 Apple Inc. 在美国和其他国家注册的商标。
- YouTube 和 YouTube 标志是 YouTube LLC 的商标和/或注册商标。
- 本使用说明书中的其他产品和公司名称是各所有者的商标和（或）注册商标。

x.v.Colour
HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

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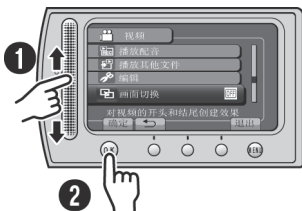
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附加信息

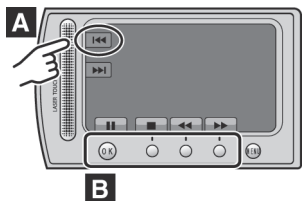
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如何使用触摸感应器

在液晶监视器上显示菜单之后:



- ① 用您的手指在感应器上滑动。
- ② 选择 [确定]。(触一下 OK。)



- A 要选择左侧显示的屏幕按键，请触摸屏幕按键旁边的感应器部分。
- B 要选择屏幕底部显示的屏幕按键，请触摸其下面的按键。

请阅读本使用说明书，享受摄像机带来的乐趣。

有关详细操作，请参阅随附的 CD-ROM 上的使用指南。

要查看使用指南，必须安

装 Adobe® Acrobat® Reader™ 或 Adobe® Reader®。

Adobe® Reader® 可从 Adobe 网站下载:

<http://www.adobe.com/>



注:

用单击方式选择您所需的语言。
型号名称标示在摄像机底部。

请首先阅读本节!

备份重要的记录数据

建议将重要的记录数据复制到 DVD 或其他记录媒体以保存。JVC 对任何数据丢失概不负责。

进行试录

在进行重要数据的实际记录之前，请进行试录并播放记录的数据，从而检查视频和声音是否已经正确记录。

在摄像机工作异常的情况下将其重置

关闭液晶监视器并切断摄像机电源（电池或交流电源适配器），然后重新接通。

有关使用电池的注意事项

- 请务必使用 JVC BN-VF808U/VF815U/VF823U 电池。本产品包含专利和其他专有技术，并设计为只可使用 JVC 电池而不能使用其他电池。用其他电池工作时，JVC 不能保证本产品的安全或性能。
- 如果摄像机受到静电影响，请先关闭其电源再使用。

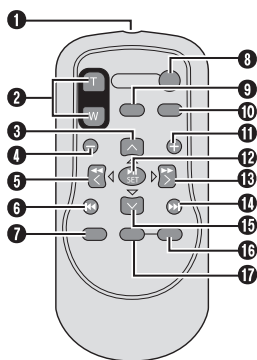
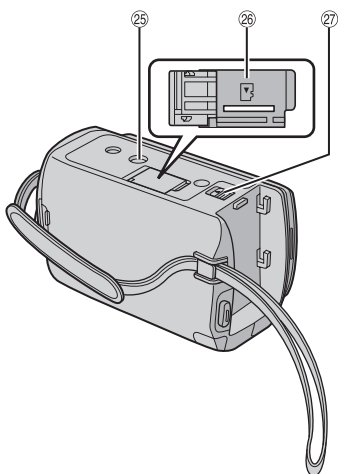
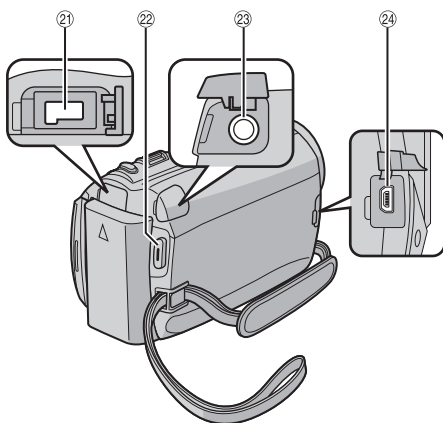
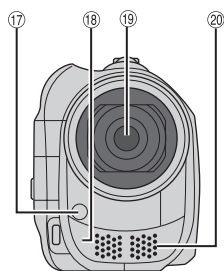
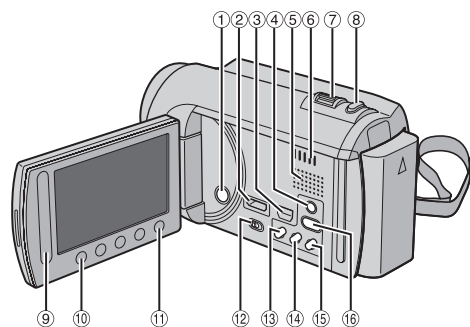
如果发生故障，立即停止使用摄像机，并咨询本地的 JVC 经销商。

- 维修或检查摄像机时，所记录的数据可能会被删除。在送修或检查之前，请备份好所有数据。

由于摄像机可能会用于在商店进行演示，因此默认状态下演示模式设为开启

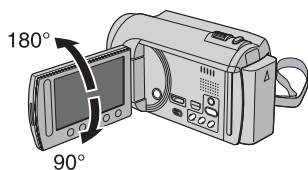
要禁用演示模式，请将 [演示模式] 设为 [关]。

索引



注

- 拍摄时，请注意勿挡住 17, 18, 19 和 20。
- 液晶监视器可以旋转 270°。



摄像机

- ① 电源键
- ② HDMI 小型接口 (☞ 第 24 页)
- ③ 组件接口 (☞ 第 24 页)
- ④ DISPLAY 键 (☞ 第 13 页)
- ⑤ 扬声器
- ⑥ 通风孔
- ⑦ 变焦杆 (☞ 第 20 页)
扬声器音量控制
- ⑧ SNAPSHOT 键 (☞ 第 19 页)
- ⑨ 触摸感应器
- ⑩ OK 键
- ⑪ MENU 键
- ⑫ 模式开关 [👤, 📷]
- ⑬ UPLOAD 键 (☞ 第 36 页)
TITLE 键
- ⑭ EXPORT 键 (☞ 第 35 页)
- ⑮ DIRECT DISC 键 (☞ 第 28 页)
INFO 键 (☞ 第 20 页)
- ⑯ PLAY/REC 键 (☞ 第 18、19、21、22 页)
- ⑰ LED 灯 (☞ 第 20 页)
- ⑱ 遥控感应器
- ⑲ 镜头
- ⑳ 立体声麦克风
- ㉑ 直流电接口
- ㉒ START/STOP 键 (☞ 第 18 页)
- ㉓ AV 接口 (☞ 第 25、29 页)
- ㉔ USB 接口 (☞ 第 27、31 页)
- ㉕ 三脚架固定槽
- ㉖ microSD 卡槽
- ㉗ 电池释放键

遥控器

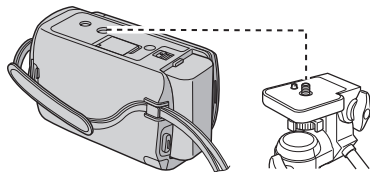
- ① 红外线光束发射窗
- ② ZOOM (T/W) 键 (拉近/推远)
- ③ 调高键
- ④ 后跳键
- ⑤ 左按键
- ⑥ 后退键
- ⑦ PLAYLIST 键
- ⑧ START/STOP 键
- ⑨ S.SHOT (SNAPSHOT) 键
- ⑩ INFO 键
- ⑪ 前跳键
- ⑫ PLAY/PAUSE/SET 键
- ⑬ 右按键
- ⑭ 下一步键
- ⑮ 调低键
- ⑯ INDEX 键*
- ⑰ DISP 键

* 每按一下 **INDEX**，屏幕将按如下切换：

👤 模式：
索引画面 ↔ 组索引画面
📷 模式：
索引画面 ↔ 日期索引画面

安装三脚架

对准摄像机销孔和三脚架方位销，以及固定槽和螺丝，然后顺时针旋转摄像机，将其安装到三脚架上。

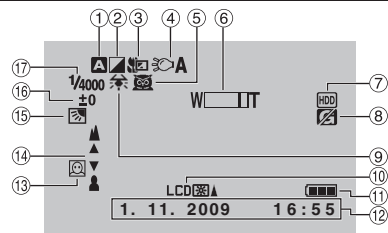


注

请勿在不平稳的平面上使用三脚架。否则可能翻倒而使摄像机严重受损。

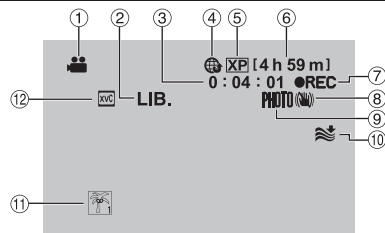
液晶监视器上的指示

记录视频和静像时



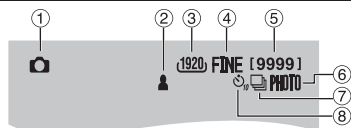
- ① 选定的记录模式指示 (☞ 第 23 页)
A: 自动模式
M: 手动模式
- ② 效果模式指示
- ③ 近拍模式指示
- ④ LED 灯指示 (☞ 第 20 页)
- ⑤ 场景选择指示
- ⑥ 变焦指示 (☞ 第 20 页)
- ⑦ 记录媒体指示
- ⑧ 防摔保护指示 ([防摔保护] 设为 [关] 时出现。)
- ⑨ 白平衡指示
- ⑩ 监视器背光指示
- ⑪ 电池指示
- ⑫ 日期/时间 (☞ 第 15 页)
- ⑬ 人脸检测指示 (☞ 第 18、19 页)
- ⑭ 手动聚焦调整指示
- ⑮ 背光补偿指示
- ⑯ 亮度控制指示
- ⑰ 测光区域控制指示
- ⑱ 快门速度

仅在记录视频时



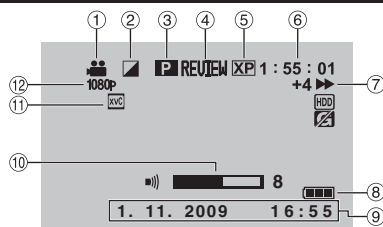
- ① 模式指示
- ② EXPORT 模式指示 (☞ 第 35 页)
- ③ 计数器
- ④ 上载模式指示 (☞ 第 36 页)
- ⑤ 视频质量
- ⑥ 剩余时间
- ⑦ ● REC: (在记录时出现。)
- ⑧ ● II: (在记录待机模式时出现。)
- ⑨ 手振补偿 (DIS) 指示 ([手动补偿] 设为 [关] 时出现。)
- ⑩ 拍摄指示 (☞ 第 18 页)
- ⑪ 风声消除指示
- ⑫ 事件指示
- ⑬ x.v.Colour™

仅在记录静像时



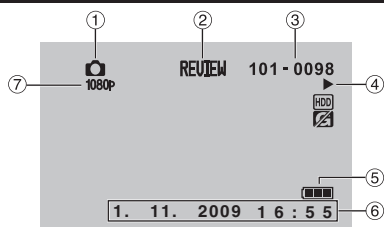
- ① 模式指示
- ② 聚焦指示 (☞ 第 19 页)
- ③ 图像大小
- ④ 图像质量: FINE (精细) 或 STD (标准)
- ⑤ 剩余拍摄张数
- ⑥ 拍摄指示 (☞ 第 19 页)
- ⑦ 快门模式指示
- ⑧ 自拍定时指示

在视频播放时



- ① 模式指示
- ② 画面切换效果指示
- ③ 播放列表播放指示 (仅在播放播放列表时出现。)
- ④ 快速查看指示 (☞ 第 18 页)
- ⑤ 视频质量
- ⑥ 计数器
- ⑦ 播放模式
 - ▶ : 播放
 - ⏸ : 暂停
 - ▶▶ : 向前搜索
 - ◀◀ : 向后搜索
 - ▶▶▶ : 向前慢放
 - ◀◀◀ : 向后慢放 (左边的数字显示速度。)
- ⑧ 电池指示
- ⑨ 日期/时间 (☞ 第 15 页)
- ⑩ 音量指示
- ⑪ x.v.Colour™
- ⑫ 1080p 输出

在播放静像时



- ① 模式指示
- ② 快速查看指示 (☞ 第 19 页)
- ③ 文件夹/文件号码
- ④ 幻灯片放映指示
- ⑤ 电池指示
- ⑥ 日期/时间 (☞ 第 15 页)
- ⑦ 1080p输出

切换液晶监视器上指示模式

每触一下 DISPLAY，液晶监视器上的指示将按如下切换：

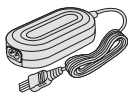
在记录模式中：

所有指示/所选功能的指示

在播放模式中：

所有指示/仅日期和时间/无指示

附件

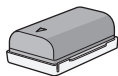


AP-V20M

交流电源适配器



电源线

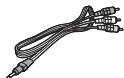


BN-VF808U

电池



组件电缆



AV 电缆



USB 电缆



RM-V751U

遥控器



CR2025

锂电池
预安装于遥控器中。



CD-ROM

注

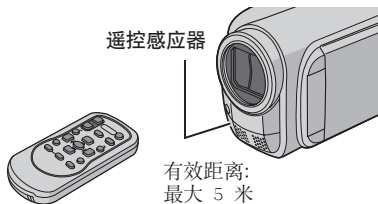
请务必使用附带的电缆来连接。切勿使用任何其他电缆。

准备遥控器

购买时，遥控器内附电池。

使用之前，请取出绝缘片。

光束有效区



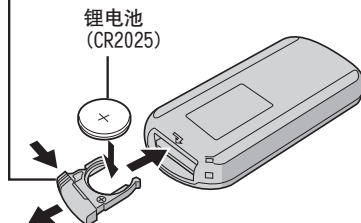
注

当传感器直接暴露于阳光或强光下时，发射光束可能无效或者可能导致不正常操作。

重新插入电池

按下锁定块，拉出电池支架。

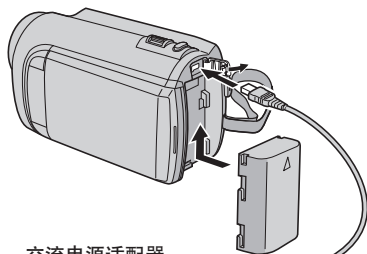
锁定块



使用之前所需的设定

对电池充电

- 1 关闭液晶监视器以关闭摄像机。
- 2 安装电池，然后连接交流电源适配器。



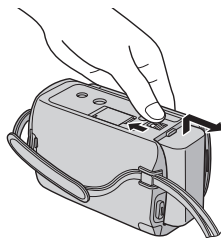
交流电源适配器
至交流电源插座
(110V 至 240V)

- 电源 / 充电指示灯闪烁，指示开始充电。
- 指示灯熄灭时，充电完成。

■ 要检查剩余电池电量
请参阅第 20 页。

电池	充电时间
BN-VF808U (配备)	1 h 50 m
BN-VF815U	2 h 40 m
BN-VF823U	3 h 40 m

■ 卸下电池



注

- 您还可以仅通过交流电源适配器使用摄像机。
- 取决于记录条件，实际记录时间可能缩短，例如记录有快速移动对象的场景。
- 请勿拉扯或弯曲交流电源适配器的插头和电缆。否则可能会损坏交流电源适配器。

日期 / 时间设定

- 1 打开液晶监视器以开启摄像机。
- 2 触一下 MENU。
- 3 选择 [显示设置]。



- 4 选择 [时钟设定]。



使用之前所需的设定 (续)

5 选择 [时钟设置]。



6 选择离您使用摄像机最近的城市。

所选地区将突出显示

所选地区的主要城市

与格林尼治标准时间的时差



7 如果夏日时有有效，选择 [开]。



8 设定日期和时间。

使用触摸感应器改变设定，然后选择 [→] 设定。



9 选择 [保存]。

要重设设定，选择 [退出]。

旅行时设定时钟为本地时间

执行步骤 1-4 (第 15 页) 后

5 选择 [区域设置]。



6 选择离您旅行区域最近的城市。



■ 返回前一个画面
选择 [←]。

■ 退出画面
选择 [退出]。

语言设定

屏幕语言可以改变。

1 打开液晶监视器以开启摄像机。

2 触一下 MENU。

3 选择 [显示设置]。



4 选择 [LANGUAGE]。



5 选择所需的语言。

■ 返回前一个画面
选择 [←]。

■ 退出画面
选择 [退出]。

其他设定

使用 microSD 插卡

本摄像机出厂预设为在内置硬盘上进行记录。您可以将记录媒体改为 microSD 插卡。

● 下列 microSD 插卡上的操作能够获得保证。

- Panasonic
- TOSHIBA
- SanDisk
- ATP

视频记录:

Class 4 或以上兼容 microSDHC 插卡 (4 GB 到 8 GB)

在 UXP 模式下, 请使用 6 级以上。

静像记录:

microSD 插卡 (256 MB 至 2 GB) 或

microSDHC 插卡 (4 GB 到 8 GB)

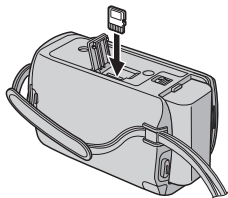
- 如果使用其他媒体, 则可能无法正确记录数据, 或可能丢失已经记录的数据。
- 不支持多媒体卡。
- 对于已经使用其它制造商生产的设备记录的视频数据, 不能记录在 microSD 卡上。

插入 microSD 插卡

准备事项:

关闭液晶监视器以关闭摄像机。

- 1 打开 microSD 插卡舱盖。
- 2 将插卡斜角边向下将其牢固插入。



- 3 关闭 microSD 插卡舱盖。

取出 microSD 插卡

压下 microSD 插卡一次。
插卡稍稍露出后, 将其拉出。

注

- 仅在电源关闭的情况下才能插入和取出 microSD 插卡。否则, 插卡上的数据可能会受损。
- 请勿触摸标签背面的端子。

改变记录媒体

将 [视频记录媒体] 和 [图像记录媒体] 设为 [SD]。



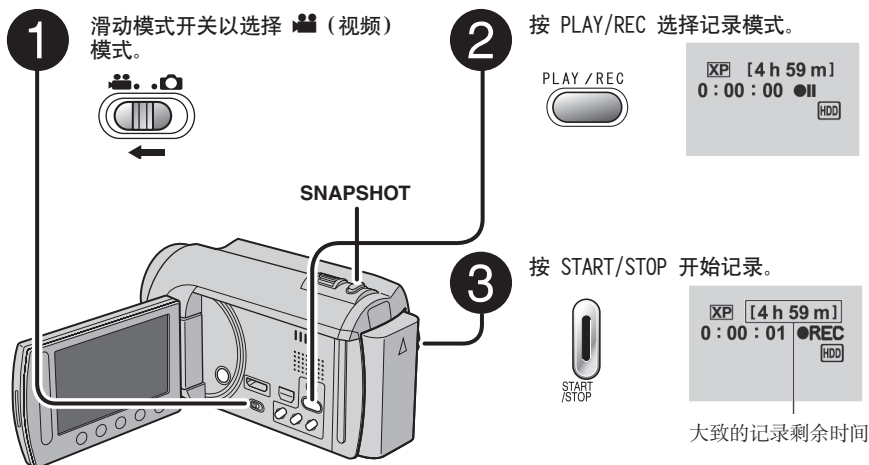
首次使用 microSD 插卡之前, 请将其格式化

选择 [格式化SD卡] 来格式化插卡。



记录文件

视频记录



您还可以通过在液晶监视器上选择 [REC] 来开始/停止记录。
(屏幕记录控制)

■ 停止记录

再按一下 START/STOP。

■ 查看最后记录的场景

在暂停记录时选择 。

在播放时选择 删除该场景。

■ 在视频记录时记录静像

按 SNAPSHOT。

■ 改变视频质量

在 [视频质量] 中改变设定。

■ 开启人脸检测模式

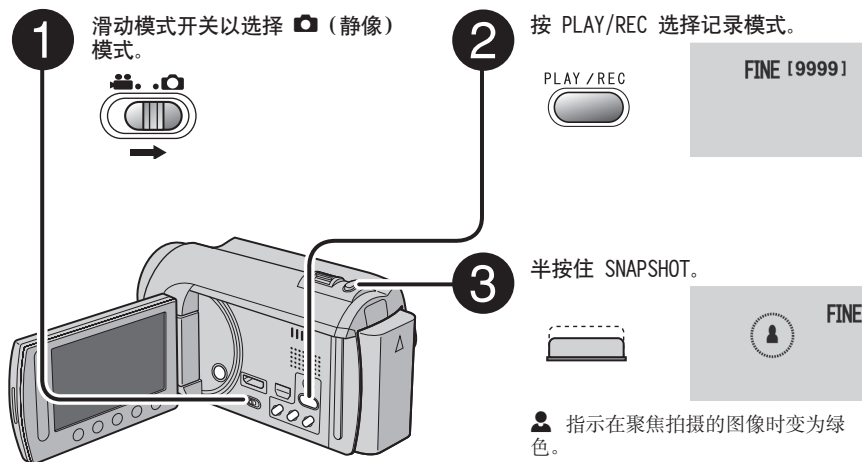
选择 。



注

- 当您关闭摄像机然后重新开启时，将自动选择视频记录模式。
- 电源开启时，如果摄像机在 5 分钟内没有进行任何操作，则摄像机将自动关闭以省电。
- 请勿在记录时突然移动或摇动摄像机。
否则，可能会记录硬盘运转的声音（嗡嗡声）。
- 如果液晶监视器倒置，将不显示 。当液晶监视器在正常位置时改变设定。

静像记录



- 查看最后记录的图像
拍摄之后选择 。
在播放时选择 删除该图像。
- 改变图像质量
在 [图形质量] 中改变设定。
- 改变图像大小
改变 [图像大小] 中的设定。
- 要连续记录静像
设为 [连拍] ([快门模式] 中)。

- 4** 完全按下 SNAPSHOT 拍摄静像。

- 开启人脸检测模式
选择 。



注

- 记录静像时，DIS (手振补偿) 不起作用。
- 电源开启时，如果摄像机在 5 分钟内没有进行任何操作，则摄像机将自动关闭以省电。
- 进行打印时，以 16:9 尺寸记录的静像的边缘可能会被裁剪。请在当地打印商店确认是否可以进行 16:9 尺寸的打印。
- 如果液晶监视器倒置，将不显示 。当液晶监视器在正常位置时改变设定。

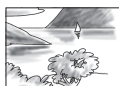
记录文件 (续)

变焦

准备事项:

- 选择 或 模式。
- 选择记录模式。

推远



W: 广角拍摄

拉近



T: 远距拍摄

您还可以通过在液晶监视器上选择 [W] 或 [T] 来拉近/推远。

变焦比 (出厂预设)

模式	模式
[20X / 光学]	[20X / 光学]

■ 改变最大变焦比 (仅限 模式)

在 [变焦] 中改变设定。

注

将变焦杆完全设到 W 时，可以在距离被摄对象约 5 厘米处近拍。

LED 灯

准备事项:

- 选择 或 模式。
- 选择记录模式。

1 触一下 MENU。

2 选择 [光源]。

3 选择所需设定。

开	无论周围光线条件如何，LED 灯光始终打开。
自动	在光线不足的情况下拍摄时，LED 灯光自动打开。
关	取消此功能。

检查剩余电池电量

■ 模式:

按两下 INFO 或 INFO，然后选择 。

■ 模式:

按 INFO。



■ 退出画面

选择 [退出] 或按 INFO。

注

可记录时间显示仅用于参考。显示以 10 分钟为单位。

检查记录媒体上的剩余空间

准备事项:

- 选择 模式。
- 选择记录模式。

按 INFO。



显示各个视频质量模式的最长记录时间。

■ 改变视频质量

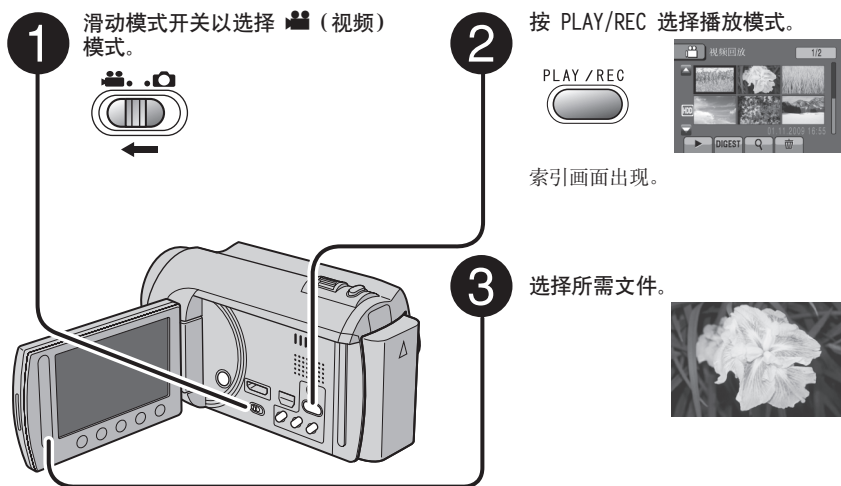
- 1) 选择视频质量。
- 2) 选择 [确定]。

■ 退出画面

选择 [退出]。

播放文件

视频播放



■ 要移到上一页或下一页
触摸 [▲] 或 [▼] 超过 1 秒钟。

■ 从每个视频开头播放几秒钟
按一下 [DIGEST]。

注

- 某些情况下，还可能播放视频开头外的部分。
- 有些视频可能根本无法播放。

■ 删除视频
在播放停止时选择 。

■ 改变缩略图数目
(6 张缩略图/12 张缩略图)
将变焦杆移到 [W]。

■ 暂停时放大视频 (仅限远程控制)
按遥控器上的 T。

- 按遥控器上的 、、、 移动变焦区域。
- 按遥控器上的 W 取消放大。

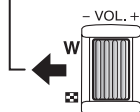
■ 视频播放的屏幕按键操作

- : 返回文件的第一个场景
- : 进到下个文件的第一个场景
- : 返回索引画面
- : 向后搜索 (播放时)
- : 逐帧向后播放 (暂停期间) *
- : 播放
- : 暂停
- : 向前搜索 (播放时)
- : 逐帧向前播放 (暂停期间) *

* 当您保持触摸 / 下的感应按键一会儿时，将开始慢放。

■ 扬声器音量

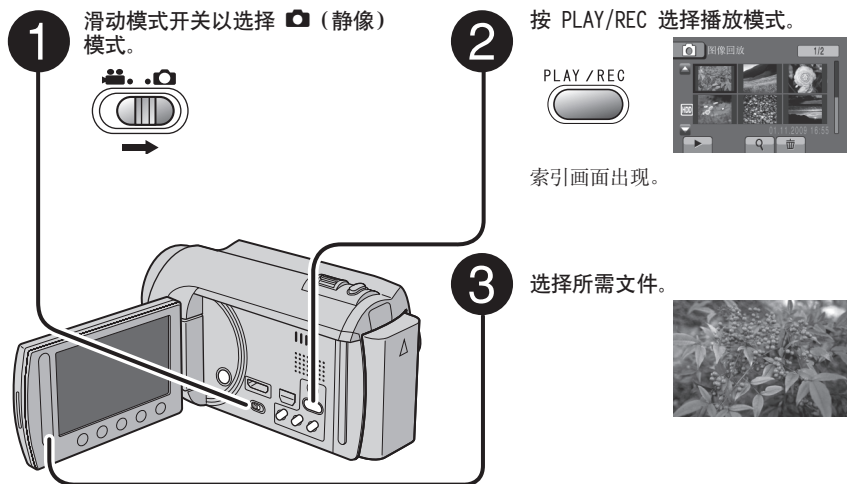
— : 调低音量



+ : 调高音量

播放文件 (续)

静像播放



■ 要移到上一页或下一页
触摸 或 超过 1 秒钟。

■ 删除静像
选择 。

■ 改变缩略图数目
(6 张缩略图/12 张缩略图)
将变焦杆移到 。

■ 暂停时放大图像 (仅限远程控制)
按遥控器上的 T。

- 按遥控器上的 、、、 移动变焦区域。
- 按遥控器上的 W 取消放大。

■ 静像播放的屏幕按键操作

- : 改变幻灯片放映的播放顺序为向后播放
- : 改变幻灯片放映的播放顺序为向前播放
- : 返回索引画面
- : 显示上一个文件
- : 开始幻灯片放映
- : 结束幻灯片放映
- : 显示下一个文件

手动记录

手动记录模式用于手动设定聚焦和画面亮度等。

切换到手动记录模式

准备事项:

- 选择  或  模式。
- 选择记录模式。

选择两次 [A/M]。



■ 返回自动记录模式

选择 [A/M]，使 **A** 指示出现。

菜单中的手动设定

手动记录模式:

- 1 触一下 MENU。
- 2 选择 [手动设置]。



- 3 选择所需菜单。



- 4 选择所需设定。



取决于您选择的设定，可以通过使用触摸感应器来设定数值。

■ 返回前一个画面

选择 .

■ 退出画面

选择 [退出]。

在电视机上观看文件

本摄像机适用于高清或 PAL 制式的彩色电视信号。它不能用于其他标准的电视机。

连接电视机

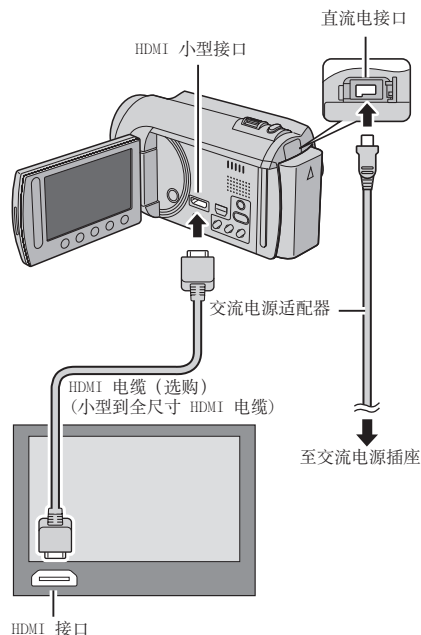
可以从 HDMI 接口、COMPONENT 接口或 AV 接口输出视频。请选择最适合电视机的接口。

准备事项:

关闭所有设备。

■ 使用 HDMI 小型接口连接

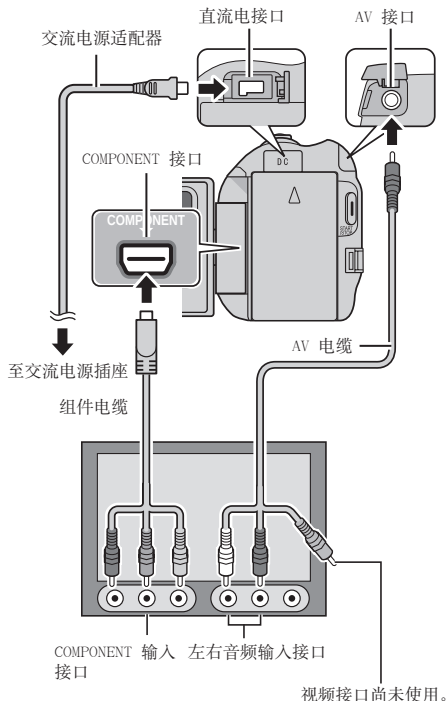
我们建议使用 2 类 HDMI 电缆（高速电缆）。



注

- 当连接到 HDMI 电缆时，电视可能无法正常显示图像或声音，具体视所连接的电视而定。在这种情况下，请执行以下操作。
 - 1) 断开 HDMI 电缆并重新连接。
 - 2) 关闭摄像机并再次启动。

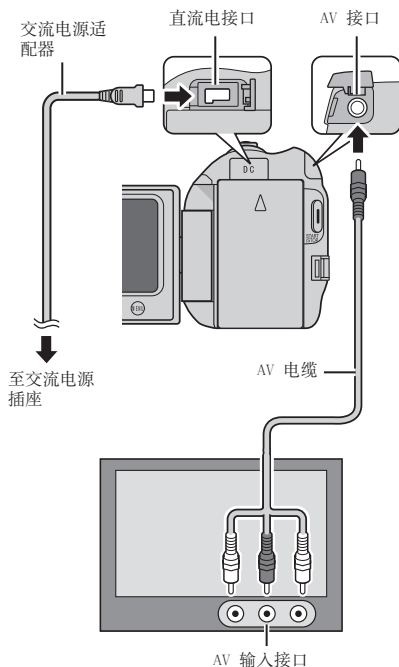
■ 使用 COMPONENT 接口连接



注

根据连接更改 [组件输出] 中的设定。

■ 使用 AV 接口连接



播放操作

完成电视机连接之后

- 1 开启摄像机和电视机。
- 2 将电视机设为视频模式。
- 3 (仅限于将摄像机连接到磁带录像机/DVD 录像机时)
开启磁带录像机/DVD 录像机, 然后将其设为辅助输入模式。
- 4 在摄像机上启动播放。(☞ 第 21, 22 页)

■ 在电视机上显示摄像机的屏幕显示
设定 [在电视机上显示] 为 [开]。

注

x.v.Colour™ 设为 [开] 的情况下记录视频时, 请改变电视机上的 x.v.Colour™ 设定。有关详情, 请参阅电视机的使用说明书。

注

更改 [视频输出] 中的设定, 使其符合电视机屏幕尺寸。

管理文件

小心

存取文件时，请勿取出记录媒体或执行任何其他操作（例如关闭电源）。并且务必使用附带的交流电源适配器，因为如果在操作时电池耗尽，记录媒体上的数据可能受损。如果记录媒体上的数据受损，则请格式化记录媒体以备再次使用该媒体。

从视频截取静像

您可以从记录的视频截取所需场景，然后将其存储为静像。

准备事项：

- 选择  模式。
- 选择播放模式。

在暂停播放时按 SNAPSHOT。

SNAPSHOT



注

- 截取的静像以 1920 × 1080 的分辨率进行存储。根据视频源文件图像质量的不同，图像可能会被水平或垂直拉伸。
- 连拍功能不能用于截取图像。
- 不能在播放中截取视频。

删除文件

- 保护的文件无法删除。要删除这些文件，请先取消保护。
- 文件一旦删除便无法恢复。删除之前请先检查文件。

准备事项：

- 选择  或  模式。
- 选择播放模式。

1 触一下 MENU。

2 选择 [删除]。



删除当前显示的文件

执行步骤 1-2 后

3 选择 [目前文件]。



4 选择 [是]。



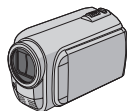
您可以通过选择  或  来选择上一个或下一个文件。

退出画面

选择 [退出]。

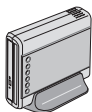
复制文件

复制和可连接设备种类



本摄像机

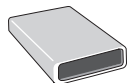
您可以单独使用本摄像机相互复制硬盘和 microSD 插卡上的文件。



DVD 刻录机

CU-VD50/CU-VD3

您可以将本摄像机上记录的文件复制到光盘上。



BD 刻录机

莱希型号: 301828

您可以将本摄像机上记录的文件复制到光盘上。



USB 外置硬盘

您可以将本摄像机上记录的文件复制到 USB 外置硬盘。



电脑

您可以使用电脑从摄像机复制文件到光盘。



磁带录像机/DVD 录像机

您可以将本摄像机上记录的视频率复录到磁带录像机/DVD 录像机上。

注

- 建议使用 JVC DVD 刻录机 (CU-VD50/CU-VD3)。使用 CU-VD20 或 CU-VD40 时, 记录时间可能比 DVD 刻录机使用说明书中所述的时间长 2 倍左右。
- 建议的 USB 外置硬盘

希捷	FreeAgent™ Desk 系列
莱希	Design by Neil Poulton 系列

- 无法使用容量超过 2 TB 的 USB 外置硬盘。

使用 BD/DVD 刻录机

使用 BD/DVD 刻录机可将摄像机中的文件备份到光盘。

- 请使用下列某种方法观看光盘。(如果您尝试使用不兼容的播放机播放光盘, 可能无法弹出光盘。)

- 使用摄像机播放光盘。
- 使用 BD/DVD 刻录机播放光盘。*
- 在电脑上播放*
- 使用支持 BD-MV 和 AVCHD 的 BD/DVD 播放机播放光盘。*

* DVD 必须首先在摄像机上进行终结。

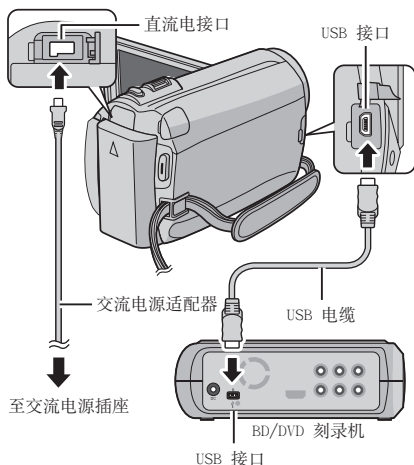
- 不能播放除使用 BD/DVD 刻录机制作的光盘之外的光盘。

- 当连接 DVD 刻录机 (CU-VD50) 到电视机时, 您无需使用摄像机就可以播放创建的光盘。当播放时断开 USB 电缆。

使用 BD/DVD 刻录机连接

准备事项:

先打开摄像机, 然后打开 BD/DVD 刻录机。



注

- 另请参阅选购的 BD/DVD 刻录机的使用说明书。
- 当连接 DVD 刻录机时, 请使用 DVD 刻录机附带的 USB 电缆。
- 当连接 BD 刻录机时, 请使用带有小型-A(公)和 B(公)接口的 USB 电缆。建议使用 JVC 的 QAM0852-001 (可选)。详情请参阅第 34 页。

复制文件 (续)

备份全部文件

准备事项:

- 选择 或 模式。
- 选择 HDD 或 microSD 卡。
- 将摄像机连接到 BD/DVD 刻录机。
- 使用 BD 刻录机时, 选择 [更改录制媒体] 并选择光盘类型。

1 选择[从所有创建] (模式) 或 [保存全部] (模式)。



2 选择所需菜单。



- 模式: [所有场景]
- 模式: [全部图像]

复制记录媒体中的全部文件。

- 模式: [未保存场景]
- 模式: [未保存的图像]

对于尚未复制的文件, 将自动选择并复制。

3 选择[执行]。



4 选择 [是] 或 [否]。

- [是]: 按组显示缩略图。
- [否]: 按照日期或播放列表显示缩略图。

5 选择 [执行]。

- 文件被复制到光盘。当出现 [完成] 时, 触一下 OK。
- 当出现 [插入下一张碟按 [取消] 退出创建] 时, 更换光盘。剩余的文件将复制到第二张光盘。
- 要取消复制, 选择 [取消]。

复制从未复制过的视频文件

自动选择并复制尚未复制到光盘的文件。

1 打开液晶监视器以开启摄像机。

2 按 DIRECT DISC。



3 选择 [是] 或 [否]。

- [是]: 按组显示缩略图。
- [否]: 按照日期或播放列表显示缩略图。

4 选择 [执行]。



- 开始创建光盘。出现 [完成] 时, 触一下 OK。
- 当出现 [插入下一张碟按 [取消] 退出创建] 时, 更换光盘。剩余的文件将复制到第二张光盘。
- 要取消创建光盘, 选择 [取消]。

退出画面

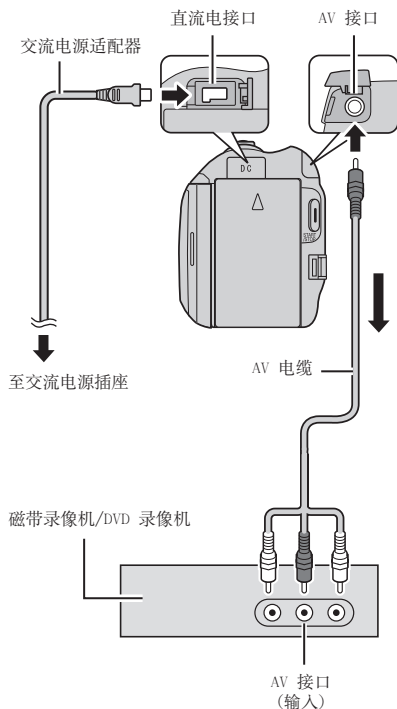
- 1) 选择 [退出]。
- 2) 显示 [退出?] 时, 选择 [是]。

复录文件到磁带录像机/DVD 录像机

准备事项:

- 创建播放列表。
- 关闭所有设备。

■ 使用 AV 接口连接(模拟复录)



1 打开液晶监视器以开启摄像机。

2 将磁带录像机/DVD 录像机设为 AUX 输入模式。

检查来自摄像机的图像已经正确输入磁带录像机/DVD 录像机。

3 在摄像机上播放播放列表。

- 1) 触一下 MENU。
- 2) 选择 [播放配音]。
- 3) 选择所需播放列表。
- 4) 选择 [是]。(在第一个和最后一个场景显示黑屏 5 秒钟。)

4 在您要开始复录的点上，在磁带录像机/DVD 录像机上开始记录。

参阅磁带录像机/DVD 录像机的使用说明书。

■ 停止复录

在磁带录像机/DVD 录像机上停止记录。

■ 隐藏画面上的日期或图标

改变 [在电视机上显示] 中的设定。

切换液晶监视器上指示模式

每触一下 DISPLAY，液晶监视器上的指示将按如下切换：

在记录模式中：

所有指示/所选功能的指示

在播放模式中：

所有指示/仅日期和时间/无指示

使用电脑制作光盘

在您安装软件之前, 请阅读 CD-ROM 指南中的“JVC 软件许可权合约”。您可以使用电脑从摄像机复制数据到光盘。

1 安装软件到电脑

系统要求

Windows Vista

操作	Windows Vista®
系统:	Home Basic (SP1) Home Premium (SP1) (32 位, 预装)
中央处理器:	Intel® Core™ Duo, 1.66 GHz 或以上 (建议使用 Intel® Core™ 2 Duo 2.13 GHz 或以上。)
内存:	至少 2 GB

Windows XP

操作	Windows® XP
系统:	Home Edition (SP2/SP3) Professional (SP2/SP3) (预装)
中央处理器:	Intel® Core™ Duo, 1.66 GHz 或以上 (建议使用 Intel® Core™ 2 Duo 2.13 GHz 或以上。)
内存:	至少 1 GB

■ 要检查电脑规格

在 [开始] 菜单中右键单击 [电脑] (或 [我的电脑]) 并选择 [属性]。

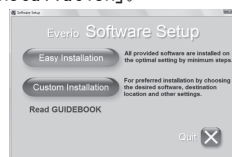
注

- 确保您的电脑具有可刻录的 BD/DVD 光驱。
- 如果您的系统不满足这些要求, 建议使用 BD/DVD 刻录机复制文件。(见第 27 页)
- Macintosh 用户可使用 Macintosh 附带的软件 (iMovie '08, iPhoto) 来导入文件到其电脑中。

准备事项:

将附带的 CD-ROM 装入电脑。
在 Windows Vista 中, 出现自动播放对话框。

1 单击 [Easy Installation]。



按屏幕指示操作。

2 单击 [下一步]。



3 单击 [完成]。



桌面上将创建 Everio MediaBrowser 图标。



Everio MediaBrowser Player 是一款在电脑上播放 AVCHD 光盘的软件。
(无法播放 DVD 光盘。)

■ 要查看 Everio MediaBrowser 的使用指南

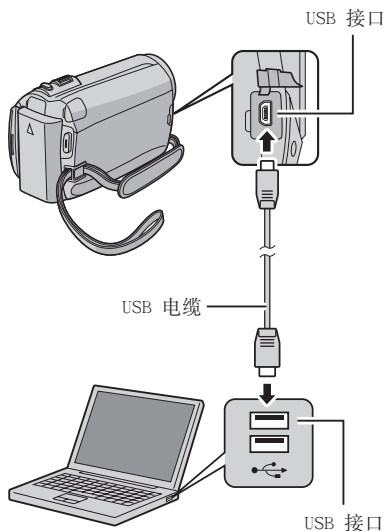
- 1) 双击 Everio MediaBrowser 的图标。
- 2) 单击 [帮助], 然后单击 [MediaBrowser 帮助]。



2 在电脑上备份

准备事项:

- 安装软件到电脑。
- 确保在电脑硬盘上留有足够剩余空间。
- 关闭液晶监视器以关闭摄像机。



1 打开液晶监视器以开启摄像机。

2 选择 [备份]。



Everio MediaBrowser 在电脑上启动。



3 单击 [摄影机中的所有卷] 并单击 [下一步]。



4 单击 [开始]。



开始备份。

■ 要从电脑断开摄像机

- 1) 在任务栏上右键单击图标 (安全删除硬件) 并选择 [安全删除 USB Mass Storage Device]。
- 2) 按照屏幕指示操作并确保设备可以安全移除。
- 3) 断开 USB 电缆并关闭液晶监视器。

注

备份很多视频需花点时间。

使用电脑制作光盘 (续)

④ 制作用户列表以安排文件

您可以制作某个对象(例如旅行、运动会)的用户列表并将与对象相关的文件放在用户列表中。

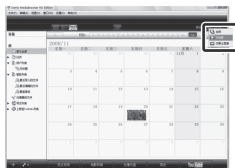
准备事项:

在电脑上备份。

1 双击图标并打开日历。



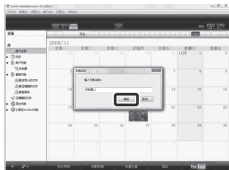
2 选择 [仅电影]。



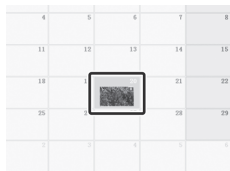
3 单击 [+]



4 输入新用户列表的名称并单击 [确定]。

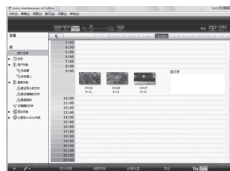


5 单击记录日期。



显示该日记录的文件。

6 将文件拖放到用户列表中。



要添加其他文件到用户列表, 重复步骤 **5** 和 **6**。

❶ 复制文件到光盘

Everio MediaBrowser 支持 3 种光盘格式。选择满足您的用途的格式。

DVD-Video 光盘: 如果将光盘送给亲朋好友, 适合选用这种。

AVCHD 光盘: 适合高质量视频。

BD: 适合高质量视频且录制时间较长的情况。

❷ 选择用户列表并单击 [创建光盘]。



❸ 选择光盘类型并单击[下一步]。



❹ 单击 [逐个选择文件] 并单击 [下一步]。 要添加所有文件到光盘, 单击 [选择目前显示的所有文件], 然后转到步骤 5。



❺ 将文件拖放到底下的部分并单击 [下一步]。



❻ 输入光盘名称, 选择顶层菜单样式并单击 [下一步]。



❼ 单击 [开始]。

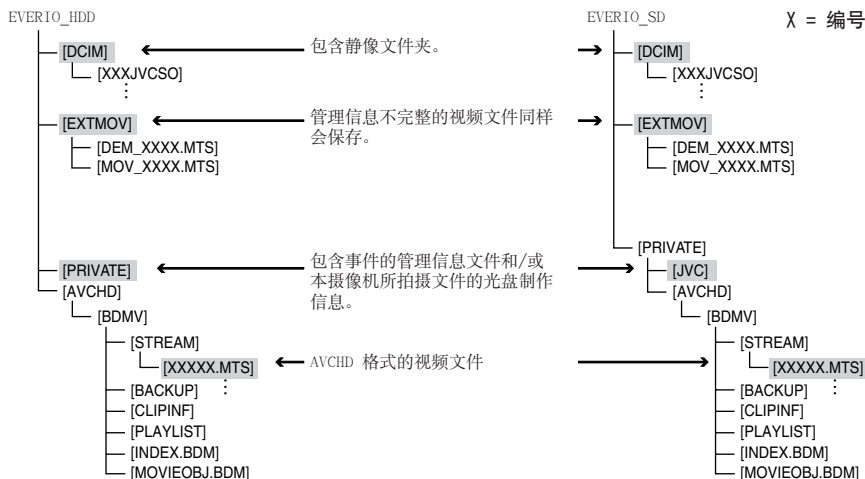


注

- 您通过复制 UXP 记录模式记录的视频创建 AVCHD 光盘时, 复制前, 需要将视频转换为 XP 记录模式。因此, 花费的时间可能超过复制其他模式记录的视频。
- 使用 Everio MediaBrowser Player 播放光盘。操作时, 请参阅 Everio MediaBrowser 软件提供的帮助。
- 有关操作 Everio MediaBrowser 的详情, 单击[帮助], 并参考 [MediaBrowser 帮助]。
- 必须安装 Adobe® Reader®, 才能阅读 [MediaBrowser 帮助]。Adobe® Reader® 可以从 Adobe 网站下载:
<http://www.adobe.com>
- 有关操作附带软件的帮助, 请参见支持信息。
(☞ 第 34 页)

使用电脑制作光盘 (续)

文件夹结构和扩展名



客户支持信息

此软件根据软件授权条款授权使用。

JVC

当就此软件联系您国内最近的 JVC 办事处或机构时 (请访问 JVC 全球服务网络:

<http://www.jvc-victor.co.jp/english/worldmap/index-e.html>), 请准备好以下信息。

- 产品名称、型号、问题、错误信息
- 电脑 (制造商、机型 (桌上型/膝上型)、中央处理器、操作系统、内存 (MB)、可用的硬盘空间 (GB))

请注意, 取决于问题内容, 可能要花些时间才能答复您的问题。

JVC 无法回答有关电脑基本操作的问题, 或有关规格或操作系统、其他应用程序或驱动程序性能等方面的问题。

Pixela

地域	语言	电话号码
美国和加拿大	英语	+1-800-458-4029 (免费电话)
欧洲 (英国、德国、法国和西班牙)	英语/德语/法语/西班牙语	+800-1532-4865 (免费电话)
欧洲其他国家	英语/德语/法语/西班牙语/意大利语/荷兰语	+44-1489-564-764
亚洲 (菲律宾)	英语	+63-2-438-0090
中国	中文	+86-21-5385-3786

主页: <http://www.pixela.co.jp/oem/jvc/mediabrowser/e/>

有关最新信息及下载, 请查看我们的网站。

与便携式媒体播放器一起使用

打开导出模式

您可以方便地将导出模式中记录的视频传送到 iTunes®。导出设定打开的所有文件均传送到电脑。

有关传送的详情，请参阅 CD-ROM 中 MediaBrowser 的操作指南。

准备事项:

- 选择  模式。
- 选择记录模式。

按两下 EXPORT。



■ 关闭导出模式

按两下EXPORT。

更改导出设定

您可将记录的视频设为导出设定。

准备事项:

- 选择  模式。
- 选择播放模式。

1 按EXPORT。



2 选择文件并设定 [LIB.]。



要检查文件内容，选择 [检查]。

3 选择 [退出]。

■ 取消导出设定

选择文件并再次选择 [LIB.]。

■ 退出画面

- 1) 选择 [退出]。
- 2) 选择 [是]。

■ 确认导出设定

在索引画面上按 EXPORT。

传送文件到电脑

准备:

在电脑上安装 iTunes®。

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

- 1 用 USB 电缆连接摄像机到电脑。
- 2 选择[向LIBRARY登录]。



导出设定打开的所有文件均传送到电脑。

■ 若无法导出该文件至 iTunes®

请参阅所供Everio MediaBrowser软件“帮助”的[最新产品信息由此进]下的“Q&A”、“最新信息”、“下载信息”等。

上传文件到网站



打开上传模式

您可在记录之后快速上传文件到视频共享网站 (YouTube™)。

准备事项:

- 选择  模式。
- 选择记录模式。

按两下 UPLOAD。



如果您在上传模式设为开时记录文件，将在开始记录之后 10 分钟自动停止记录。剩余时间显示在液晶监视器上。

注

每次完成记录时，上传模式将关闭。

上传文件

有关上传文件的详情，请参阅 CD-ROM 中 MediaBrowser 的操作指南。

- 1 用 USB 电缆连接摄像机到电脑。
- 2 选择 [上传]。



■ 若无法上传该文件至 YouTube™

- 您需要使用 YouTube™ 账号来上传文件至 YouTube™。创建您的账号。
- 请参阅所供Everio MediaBrowser软件“帮助”的 [最新产品信息由此进] 下的“Q&A”、“最新信息”、“下载信息”等。

更改菜单设定

1 触一下 MENU。

2 选择所需菜单。



3 选择所需设定。



■ 返回前一个画面
选择 [返回]。

■ 退出画面
选择 [退出]。

故障排除

请求服务前，先参考下表。如果表中的解决方案解决不了问题，请咨询最近的 JVC 经销商或 JVC 服务中心。

另请参阅 JVC 网站上新产品的 FAQ。

下列现象并非故障。

- 长时间使用摄像机时，摄像机变热。
- 充电期间电池变热。
- 播放视频时，在场景之间的交接处图像短暂停止或声音中断。
- 记录阳光时液晶监视器暂时变红或变黑。
- 液晶监视器上出现黑点、红点、绿点或蓝点。
(液晶监视器含有 99.99% 的有效像素，但 0.01% 或更少的像素可能无效。)

故障		措施
电源	没有供电。	● 正确连接交流电源适配器。 ● 重新对电池充电。
	剩余电池电量显示错误。	● 对电池进行完全充电并将其用完，然后重新对其充电。 ● 如果摄像机长时间在高温或低温下进行使用，或者电池反复进行充电，则剩余电池电量可能会显示错误。
显示	液晶监视器难以辨认。	● 如果在直射阳光下等明亮的地方进行使用，则液晶监视器可能难以辨认。

故障排除 (续)

故障		措施
记录	不能进行记录。	● 滑动模式开关以选择所需模式 (👤 或 📷)。
	记录的图像上出现竖线。	● 拍摄对象时如果有明亮照明, 会出现这样的现象。这不是故障。
播放	声音或视频中断。	● 在两个场景连接部位, 播放有时会中断。这不是故障。
	无法找到记录的视频。	● 选择 [播放其他文件], 然后在索引画面上搜索视频。(管理信息损坏的视频文件可以播放。) ● 取消组显示和日期搜索功能。 ● 改变 [视频记录媒体] 或 [图像记录媒体] 中的设定。(不显示其他媒体上的文件。)
其他问题	在视频模式和静像模式之间切换时或者打开或关闭电源时, 摄像机操作缓慢。	● 如果摄像机中有许多文件 (例如视频), 摄像机要花点时间才能响应。建议从摄像机复制所有文件到您的电脑, 然后删除摄像机上的文件。
	电池充电时指示灯没有闪烁。	● 检查剩余电池电量。(电池充满电后, 指示灯不会闪烁。) ● 在炎热或寒冷的环境中充电时, 请确保在允许的温度范围内对电池进行充电。(如果在允许的温度范围之外对电池进行充电, 则可能会停止充电来保护电池。)
	无法上传该文件至 YouTube™	● 请参阅所供Everio MediaBrowser软件帮助的 [最新产品信息由此进] 下的“Q&A”、“最新信息”、“下载信息”等。
	无法导出该文件至 iTunes®	

■ 如果硬盘发生故障

- ① 执行 [格式化硬盘]。(所有数据均被删除。)
- ② 如果上述操作无法解决故障, 则请联系 JVC 客服进行维修。

■ 在摄像机工作异常的情况下将其重设

- ① 关闭液晶监视器并切断摄像机电源 (电池或交流电源适配器), 然后重新接通。
- ② 执行 [出厂预设值]。

警告指示

指示	措施
请设定日期/时间！	● 设定时钟。如果在设定时钟之后仍显示此信息，则时钟的电池已经耗尽。请咨询您本地的 JVC 经销商。
信息读取错误	● 请务必使用 JVC 电池。
无法在视频模式使用	● 将 [视频记录媒体] 设为 [HDD]。 ● 更换 microSD 插卡。
未格式化	● 选择 [确定] 并选择 [是] 以执行格式化。
格式化出错！	● 检查操作过程并重新执行一次。 ● 关闭摄像机，然后再开启。
数据删除错误	
硬盘错误！	● 执行格式化。（所有数据均被删除。） ● 关闭摄像机，然后再开启。
存储卡出错！	● 执行格式化。（所有数据均被删除。） ● 取出 microSD 插卡并重新插入。（无法使用多媒体卡。） ● 擦去 microSD 插卡端子上的所有污垢。 ● 打开电源之前插入 microSD 插卡。 ● 关闭摄像机，然后再开启。
此刻无法再拍摄更多的静止图像	● 停止记录视频，然后记录静像。（如果在记录视频时拔出或插入 microSD 插卡，则不能记录静像。）
防摔保护正常工作并且电源关闭	● 将 [视频记录媒体] 设为 [SD]，然后记录到 microSD 插卡。 ● 关闭摄像机，然后再开启。 ● 防止摄像机振动和冲击。
摄录被取消	
记录失败	microSD 插卡： ● 取出 microSD 插卡并重新插入。（无法使用多媒体卡。） ● 擦去 microSD 插卡端子上的所有污垢。 ● 打开电源之前插入 microSD 插卡。
播放失败	硬盘： ● 请勿使摄像机受到碰撞 / 振动。

规格

■ 一般电源

DC 11 V (使用交流电源适配器)

DC 7.2 V (使用电池)

电源消耗

约 3.5 W*

* LED 灯关闭且监视器背光设为 [标准] 模式时。

尺寸(宽×高×深)

53 mm × 68 mm × 113 mm

重量

约 325 g

约 370 g (包括电池)

工作温度

0° C 至 40° C

存放温度

-20° C 至 50° C

工作湿度

35% 至 80%

■ 摄像机/液晶监视器

摄取元件

1/4.1" (3050000 像素) 逐行扫描 CMOS

镜头

F 1.9 至 3.2, $f = 2.9$ mm 至 58.0 mm,

20:1 电动变焦镜头

滤镜直径

Ø30.5 mm

液晶监视器

对角测量 2.7",

液晶显示屏 / TFT 有源矩阵系统

LED 灯

1.5 m 以内

(建议的拍摄距离)

■ 接口

AV 输出

视频输出: 1.0 V (p-p), 75 Ω

音频输出: 300 mV (rms), 1 k Ω

HDMI

HDMI™ (可对应 x.v.Colour™ 的 1.3 版)

组件输出

Y、Pb、Pr 组件输出

Y: 1.0 V (p-p), 75 Ω

Pb/Pr: 700 mV (p-p), 75 Ω

USB

Mini USB A 型和 B 型,

兼容 USB 2.0

■ 交流电源适配器

电源要求

AC 110 V 至 240 V~, 50 Hz/60 Hz

输出

DC 11 V , 1 A

■ 遥控器

电源

DC 3 V

电池使用寿命

约 1 年

(取决于使用频率)

工作距离

5 m 以内

工作温度

0° C 至 40° C

尺寸(宽×高×深)

42 mm × 14.5 mm × 91 mm

重量

约 30 g

(含电池)

■ 静像

格式

JPEG

图像大小

1920 × 1080

1440 × 1080

640 × 480

图像质量

精细 / 标准

■ 视频

信号制式

1080/50i

记录 / 播放制式

视频: MPEG-4 AVC/H.264

音频: Dolby Digital (2ch)

记录模式(视频)

UXP: VBR, 平均 24 Mbps

XP: VBR, 平均 17 Mbps

SP: VBR, 平均 12 Mbps

EP: VBR, 平均 5 Mbps

记录模式(音频)

48 kHz, 256 kbps

设计和规格如有变更, 恕不另行通知。

h: 小时/m: 分钟

近似记录时间(对于视频)

记录媒体 画质	硬盘			microSD 插卡	
	GZ-HD300 60 GB	GZ-HD310 80 GB	GZ-HD320 120 GB	4 GB	8 GB
UXP	5 h 30 m	7 h 20 m	11 h	20 m	40 m
XP	7 h 30 m	10 h	15 h	30 m	1 h 00 m
SP	10 h	14 h	21 h	44 m	1 h 28 m
EP	25 h	33 h	50 h	1 h 40 m	3 h 20 m

近似图像数(对于静像)

在任一模式，硬盘可以记录最多 9999 张静像。

记录媒体 图像大小 / 画质		microSD 插卡				
		512 MB	1 GB	2 GB	4 GB	8 GB
16:9	1920 x 1080 / 精细	510	1040	2100	4200	8420
	1920 x 1080 / 标准	800	1630	3210	6410	9999
4:3	1440 x 1080 / 精细	680	1370	2770	5540	9999
	1440 x 1080 / 标准	1060	2160	4360	8700	9999
	640 x 480 / 精细	3320	6720	9999	9999	9999
	640 x 480 / 标准	5980	9999	9999	9999	9999

h: 小时/m: 分钟

所需充电 / 记录时间(近似值)

电池	充电时间	记录时间
BN-VF808U (配备)	1 h 50 m	1 h 20 m*
BN-VF815U	2 h 40 m	2 h 50 m*
BN-VF823U	3 h 40 m	4 h 10 m*

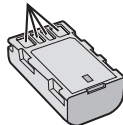
* LED 灯关闭且监视器背光设为 [标准] 模式时。

注意事项

电池

所提供的电池是锂电池。在使用所提供的电池或选购的电池前，请一定阅读以下注意事项：

端子



● 为避免危险

- ... 请勿燃烧。
- ... 请勿短路端子。不使用时远离金属物体。运输时，请确定所提供的电池帽与电池装置正确。如果电池帽装置的位置不对，请使用塑料袋携带电池。
- ... 请勿修改或拆解。
- ... 请勿将电池暴露在温度超过 60℃ 的环境中，否则可能引起电池过热、爆炸或着火。
- ... 只可使用所提供的充电器。

● 为避免损坏并延长使用寿命

- ... 避免不必要的震动。
- ... 请在 10℃ 至 35℃ 的温度范围内进行充电。低温需要较长时间充电，某些情况下会完全停止充电。高温会导致无法完全充电，某些情况下会完全停止充电。
- ... 在凉爽干燥的地方保存。长时间暴露在高温下会引起自然放电，并缩短使用寿命。
- ... 电池长期放置不用时，每六个月进行一次完全充电然后完全放电。
- ... 从充电器或未使用的加电设备中取出，因为某些设备即使是在关机的状态下也会有电流。

记录媒体

● 请务必遵循以下指南，以免损坏记录的数据。

- 请勿弯折或掉落记录媒体，或让其经受强烈压力、冲击或振动。
- 请勿将水洒到记录媒体上。
- 请勿在有强烈静电或电气噪声的地方使用、更换或贮存记录媒体。
- 在拍摄、播放或在其他访问记录媒体时，请勿关闭摄像机电源、取出电池或断开交流电源适配器。
- 请勿将记录媒体放在有强烈磁场或释放强烈电磁波的物体附近。
- 请勿将记录媒体存放在高温或高湿的地方。
- 请勿触摸金属部件。
- 当使用摄像机格式化或删除数据时，仅对文件管理信息作了更改。硬盘数据并未完全删除。如果您要完全删除所有数据，我们建议您使用专门为该用途设计的市售软件，或用锤子等物理销毁摄像机。

硬盘

- 请勿在受到振动或高声影响的环境下使用设备。
- 如果您突然移动设备，防摔保护功能可能启动同时电源被关闭。

液晶监视器

● 为防止液晶监视器损坏，请勿

- ... 用强力推入或振动。
- ... 放置摄像机时将液晶监视器置于底部。
- 为了延长使用寿命
- ... 避免使用粗布擦拭。

主机

- **为保证安全，请勿**

- ... 打开摄像机底盘。
- ... 拆解或修改设备。
- ... 让易燃物、水或金属物体进入设备。
- ... 在开机时取出电池或断开电源。
- ... 摄像机不使用时仍保持电池连接。
- ... 将本机靠近明火，如点燃的蜡烛等。
- ... 使设备受到滴水或溅水。
- ... 使电源插头或交流电源插座沾附灰尘或金属物体。
- ... 将异物插入摄像机。

- **避免在以下地方使用设备**

- ... 过潮或多尘的地方。
- ... 有烟灰或蒸汽的地方，例如靠近厨灶的地方。
- ... 振动或抖动过大的地方。
- ... 靠近电视机。
- ... 靠近产生强磁场或强电场的地方（扬声器、广播天线等）。
- ... 温度过高（超过 40℃）或过低（低于 0℃）的地方。
- ... 气压较低的地方（海拔 3000 m 以上）。

- **请勿将设备放在**

- ... 超过 50℃ 的地方。
- ... 湿度过低（35% 以下）或过高（80% 以上）的地方。
- ... 阳光直射下。
- ... 夏季时封闭汽车内。
- ... 靠近加热器的地方。
- ... 电视机等高处。在连接了电缆的情况下将设备放置于高处时，如果绊到电缆且主机跌落到地面，则可能导致故障。

- **为保护设备，请勿**

- ... 弄湿设备。
- ... 摔落设备或将其撞击硬物。
- ... 在运输过程中振动或过度抖动。
- ... 长时间使镜头直接对着过亮的物体。
- ... 将镜头暴露于直射阳光。
- ... 使用手带时猛烈摇晃。
- ... 过度摇晃装有摄像机的摄像机包。
- ... 将摄像机放置在多尘或多沙的地方，如海滩上。

- **为防止设备跌落，**

- 扣紧手握带。
 - 使用三脚架时，请将摄像机牢固地安装在三脚架上。
- 如果摄像机跌落，可能会使您受到伤害，摄像机也可能受到损坏。
- 儿童务必在家长的监护下使用该设备。

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