

JVC

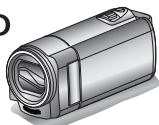
LYT2508-001A-M

EN

Basic User Guide

CAMCORDER
GZ-E105BEK
GZ-E105REK

Everio



ENGLISH



Detailed User Guide

For more details on operating this product, please refer to the "Detailed User Guide" at the following website.

■ <http://manual3.jvckenwood.com/index.html/>



Mobile User Guide

When you are outside, refer to the "Mobile User Guide".



■ <http://manual3.jvckenwood.com/mobile/eu/>

Verifying the Accessories

AC Adapter
AC-V10M



Power Cord



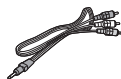
Battery Pack
BN-VG108E



USB Cable
(Type A - Mini Type B)



AV Cable
QAM1322-001



Basic User Guide
(this manual)



- Please consult your JVC dealer or the nearest JVC service center when purchasing a new AV cable.

Dear Customers

Thank you for purchasing this JVC product.
Before use, please read the Safety Precautions
and Cautions on p. 2 and p. 10 to ensure
safe use of this product.



Safety Precautions

IMPORTANT (for owners in the U.K.)
Connection to the mains supply in the United Kingdom.

DO NOT cut off the mains plug from this equipment.

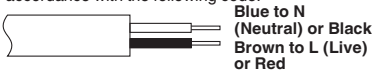
If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off be sure to remove the fuse and dispose of the plug immediately, to avoid possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below: **DO NOT** make any connection to the Larger Terminal coded E or Green.

The wires in the mains lead are coloured in accordance with the following code:



If these colours do not correspond with the terminal identifications of your plug, connect as follows: Blue wire to terminal coded N (Neutral) or coloured black.

Brown wire to terminal coded L (Live) or coloured Red. If in doubt — consult a competent electrician.

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

CAUTIONS:

- To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel.
- When you are not using the AC adapter for a long period of time, it is recommended that you disconnect the power cord from AC 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 and the camcorder with battery installed, and the remote control with battery installed should not be exposed to excessive heat such as direct sunlight, fire or the like.

CAUTION:

- The mains plug shall remain readily operable.
- Remove the mains plug immediately if the camcorder functions abnormally.

CAUTIONS:

- Be sure to use the supplied AC adapter.
- Do not use the supplied AC adapter with other devices.

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!

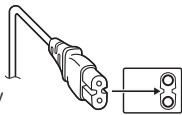
The following notes concern possible physical damage to this unit and to the user. Carrying or holding this unit by the LCD monitor can result in dropping the unit, or in a malfunction. Do not use a tripod on unsteady or uneven surfaces. It could tip over, causing serious damage to the unit.

CAUTION!

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

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.

Information for Users on Disposal of Old Equipment and Batteries



Products



Battery

Notice:

The sign Pb below the symbol for batteries indicates that this battery contains lead.

[European Union]

These symbols indicate that the electrical and electronic equipment and the battery with this symbol should not be disposed of as general household waste at its end-of-life. Instead, the products should be handed over to the applicable collection points for the recycling of electrical and electronic equipment as well as batteries for proper treatment, recovery and recycling in accordance with your national legislation and the Directive 2002/96/EC and 2006/66/EC. By disposing of these products correctly, you will help to conserve natural resources and will help to prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of these products. For more information about collection points and recycling of these products, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

[Business users]

If you wish to dispose of this product, please visit our web page <http://www.jvc.eu> to obtain information about the take-back of the product.

[Other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to dispose of these items, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment and batteries.

This product is licensed under the AVC Patent Portfolio License for the personal use of a consumer or other uses in which it does not receive remuneration to

(i) encode video in compliance with the AVC standard ("AVC Video") and/or

(ii) decode AVC Video that was encoded by a consumer engaged in a personal activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, L.L.C.

See <http://www.mpegla.com>

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way — switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family knows how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of road safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

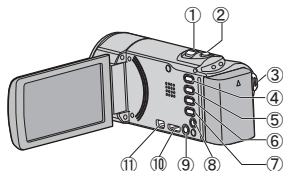
ABOVE ALL



- NEVER let anyone especially children push anything into holes, slots or any other opening in the case — this could result in a fatal electrical shock;
- NEVER guess or take chances with electrical equipment of any kind — it is better to be safe than sorry!

Contents

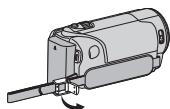
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Names of Parts and Functions

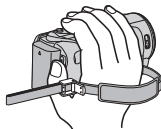


- ① Zoom/Volume Lever / Index ()
(p. 8, p. 9)
- ② i.AUTO (Intelligent Auto) Button
(p. 8)
- ③ START/STOP Button (Video Recording) (p. 8) /
▶/|| (Play/Pause) Button (Video Playback) (p. 9)
- ④  (Play/Record) Button
Switches between recording and playback modes. (p. 9)
- ⑤ UP/< Button
UP : Scrolls/moves cursor on the icons upward
< : Reverse search
- ⑥ DOWN/> Button
DOWN : Scrolls/moves cursor on the icons downward
> : Forward search
- ⑦ OK/INFO Button
Confirms the selection. / Displays information as follows.
Recording : Displays the remaining time and battery power.
Playback : Displays file information such as recording date.
- ⑧ AV Connector
- ⑨ MENU Button
- ⑩ HDMI Mini Connector
- ⑪ USB Connector

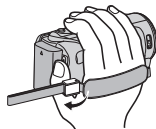
Grip Belt Adjustment



① Open the lever on the strap lock



② Adjust the length of the belt

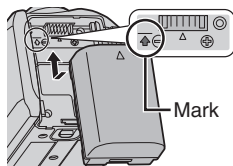


③ Close the lever

Charging the Battery Pack

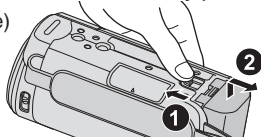
1 Attach the battery pack.

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

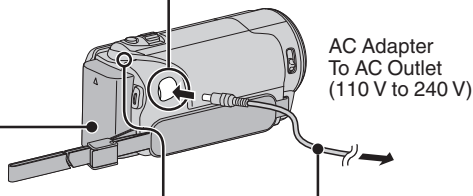
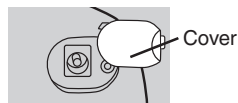


- Align the top of the battery with the mark on this unit, and slide in until the battery clicks into place.

■ To detach the battery pack
(Base)



2 Connect the DC connector.



3 Plug in the power. Charging Lamp



Charging in progress:
Blinks
Charging finished:
Goes out

CAUTION

Be sure to use JVC battery packs.

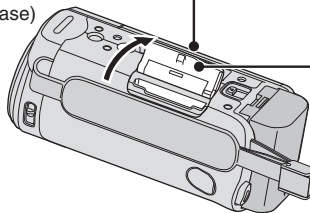
- If you use any other battery packs besides JVC battery packs, safety and performance cannot be guaranteed.
- Charging time: Approx. 2 h 20 m (using supplied battery pack)
- The charging time is when the unit is used at 25°C. If the battery pack is charged outside the room temperature range of 10°C to 35°C, charging may take a longer time or it may not start. CHARGE lamp blinks 2 times in a slow cycle for notification if the battery charge does not start. Also, please note that the recordable and playable time may be shortened under some usage conditions, such as at low temperature.
- If malfunctions (overcurrent, overvoltage, transmission error, etc) occur, or if any battery manufactured other than JVC is attempted for battery charge, charging stops. In these cases, the CHARGE lamp blinks quickly for notification.
- You can record or play back videos while the AC adapter is connected. (Battery charging cannot be performed during recording or playback.)
Remove the battery when the unit is to be used for a long time. Performance of the battery may drop if it is left attached to the unit.

Inserting an SD Card

Insert a commercially available SD card before recording.

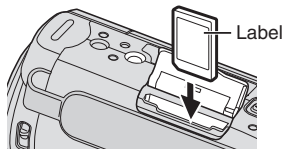
1 Close the LCD monitor.

(Base)



2 Open the cover.

3 Insert an SD card.

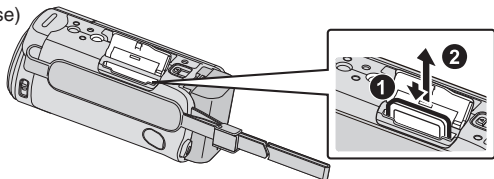


- * Turn off the power of this unit before inserting or removing an SD card.
- * When the LCD monitor is closed, the unit turns off.

■ To remove the SD card


Push the SD card inward once, then pull it out straight.

(Base)



NOTE

Operations are confirmed on the following SD cards.

Manufacturer	Panasonic, TOSHIBA, SanDisk
Video 	Class 4 or higher compatible SDHC card (4 GB to 32 GB)/ Class 4 or higher compatible SDXC card (48 GB to 128 GB) (When recording with video quality [UXP], Class 6 or higher is recommended.)

- Using SD cards (including SDHC/SDXC cards) other than those specified above may result in recording failure or data loss.
- To protect the data, do not touch the terminals of the SD card.
- When using an SDXC card, check its compatibility with the OS of your computer by referring to the Detailed User Guide.
- This unit is not guaranteed to operate with all SD cards, even when using the ones specified above. Some SD cards may not work due to specification changes, etc.

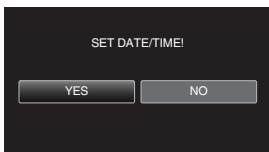
Clock Setting

To select/move cursor towards up/left or down/right, press the button UP/< or DOWN/>.

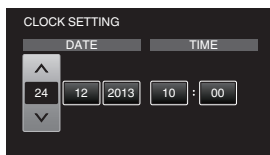
1 Open the LCD monitor.

- The unit turns on. When the LCD monitor is closed, the unit turns off.

2 Select [YES] and press OK when [SET DATE/TIME!] is displayed.



3 Set the date and time.



- Press UP/< or DOWN/> to adjust the setting value and press OK to confirm it. The cursor moves to the next item.
- Repeat this step to input the year, month, day, hour, and minute.

4 Press UP/< or DOWN/> to select the region where you live and press OK.

- Time difference between the selected city and the GMT (Greenwich Mean Time) is displayed.

■ To return to the previous screen
Press MENU.

Video Quality

This unit can perform recording in both high and standard definition.
By default, it is set to high definition (XP).

■ To change the setting

- ① Press MENU.
- ② Press UP/< or DOWN/> to select [VIDEO QUALITY] and press OK/INFO.
- ③ Press UP/< or DOWN/> to select the video quality.
- ④ Press OK/INFO. (Setting complete)

High Definition	UXP	Higher video quality ↕ More recording time
	XP	
	SP	
	EP	
Standard Definition	SSW	
	SEW	

* For the approximate video recording time, refer to p. 12.

Video Recording

You can record without worrying about the setting details by using the Intelligent Auto mode. Settings such as exposure and focus will be adjusted automatically to suit the shooting conditions.

* In case of specific shooting scenes such as person etc., its icon is displayed on the screen.

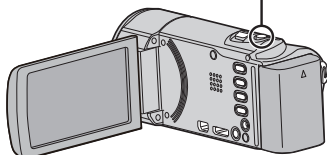
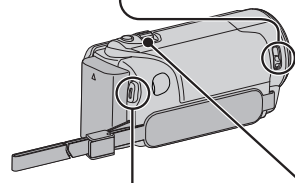
Before recording an important scene, it is recommended to conduct a trial recording.

1 Open the lens cover.



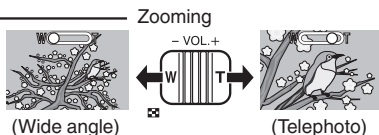
2 Check if the recording mode is **i.A.** Intelligent Auto.

- If the mode is **M** Manual, press the **i.AUTO** button to switch.
- The mode changes between Intelligent Auto and Manual with every press.

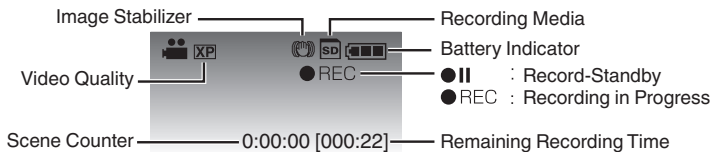


3 Start recording.

- Press again to stop.



■ Indications during video recording



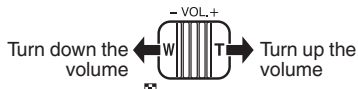
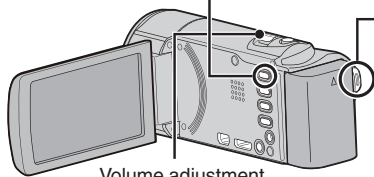
NOTE


- The estimated recording time of the supplied battery pack is approximately 40 minutes.
- Do not remove the battery pack, AC adapter, or SD card when the access lamp is lighted. The recorded data may become unreadable.
- This unit turns itself off automatically to conserve power when it is not operated for 5 minutes. (only when using the battery pack)
- The angle of view may change when the image stabilizer is turned on or off.



Playing Back/Deleting Files on this Unit

Select and play back the recorded videos from an index screen (thumbnail display).



1 Select the playback mode.

2 Select the desired video and press .

START /STOP

- To select/move cursor towards up/left or down/right, press the button UP/< or DOWN/>.
- Press the  button to stop (pause) playback.
- To return to the index screen, slide along the  (zoom) lever while playback is paused.

- Press  again to return to the recording mode.

■ To delete selected files from the index screen

- 1 Press MENU, select [DELETE] and press OK.
- 2 Select [FILE SELECT] and press OK.



3 Press UP/< or DOWN/> to select files and press OK.

-  appears.

4 Press MENU, select [EXECUTE] and press OK to confirm deletion.

5 After deleting is complete, press OK.

■ Usable operation buttons/levers during playback

	During video playback	During video pause
START/STOP 	Pause	Playback
Zoom 	-	Stop (returns to thumbnail display)
Zoom T / Vol.+	Increases volume level	Stop (returns to thumbnail display)
Zoom W / Vol.-	Decreases volume level	Stop (returns to thumbnail display)
UP/<	Reverse search	Frame-by-frame playback in reverse direction
DOWN/>	Forward search	Frame-by-frame playback in forward direction

Troubleshooting/Cautions

Troubleshooting

If you encounter problems with this unit, check the following before requesting service.

1. Refer to the "Troubleshooting" section in the "Detailed User Guide".

If you have difficulties operating the unit, refer to the detailed descriptions in the "Detailed User Guide".

- <http://manual3.jvckenwood.com/index.html/>

2. This unit is a microcomputer-controlled device. Electrostatic discharge, external noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly.

In such a case, reset the unit.

- ① Turn off the power. (Close the LCD monitor.)
- ② Remove the AC adapter and battery pack from this unit, reattach them, open the LCD monitor and this unit powers on automatically.

3. If the above do not solve the problem, consult your nearest JVC dealer or JVC service center.

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:

- **To avoid hazards**

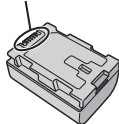
- ... **do not burn.**
- ... **do not** short-circuit the terminals. Keep it away from metallic objects when not in use. When transporting, carry the battery in a plastic bag.
- ... **do not** modify or disassemble.
- ... **do not** expose the battery to temperatures exceeding 60°C, as this may cause 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.
- ... keep a 30% battery level () if the battery pack is not to be used for a long period of time. In addition, fully charge and then fully discharge the battery pack every 6 months, then continue to store it at a 30% battery level ().

Terminals



- ... remove from charger or powered unit when not in use, as some machines use current even when switched off.
- ... do not drop or subject to strong impact.

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 recording medium. 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.

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.

While the LCD monitor screen has more than 99.99% effective pixels, 0.01% of the pixels may be bright spots (red, blue, green) or dark spots. This is not a malfunction. The spots will not be recorded.

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.

● 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 camera case excessively when the camera is inside it.
- ... store the camcorder in a dusty or sandy area.
- ... cover camcorder with a towel, cloth and so on.

● 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.

Remember that this unit 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.)

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Dear Customer,

[European Union]

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of JVC KENWOOD Corporation is:
JVC Technical Services Europe GmbH
Postfach 10 05 04
61145 Friedberg
Germany

Recordable Time/Specifications

You can check the video recording time by pressing the OK/INFO button.

Approximate Video Recording Time

Quality	SDHC/SDXC Card						
	4 GB	8 GB	16 GB	32 GB	48 GB	64 GB	128 GB
UXP	20 m	40 m	1 h 20 m	2 h 50 m	4 h 10 m	5 h 40 m	11 h 30 m
XP	30 m	1 h	2 h	4 h	6 h	8 h 10 m	16 h 20 m
SP	40 m	1 h 20 m	2 h 50 m	5 h 50 m	8 h 30 m	11 h 30 m	23 h 10 m
EP	1 h 40 m	3 h 30 m	7 h 10 m	14 h 40 m	21 h 30 m	28 h 50 m	57 h 50 m
SSW	1 h 20 m	2 h 40 m	5 h 30 m	11 h 20 m	16 h 40 m	22 h 20 m	44 h 50 m
SEW	2 h 50 m	5 h 40 m	11 h 30 m	23 h 30 m	34 h 30 m	46 h 10 m	92 h 40 m

- The approximate recording time is only a guide. The actual recording time may shorten depending on the shooting environment.

Camera

Power supply	Using AC adapter: DC 5.2 V, Using battery pack: DC 3.5 V - 3.6 V
Power consumption	2.2 W (when [MONITOR BRIGHTNESS] is set to [3] (standard)) Rated Current Consumption: 1A
Dimensions	50 mm x 55 mm x 111 mm (W x H x D: excluding grip belt)
Weight	Approx. 185 g (camera only), Approx. 215 g (including supplied battery pack)

- The specifications and appearance of this product are subject to changes for further improvement without prior notice.

For more information, please refer to the Detailed User Guide.

<http://manual3.jvckenwood.com/index.html>

Make a backup of important recorded data

JVC will not be responsible for any lost data. It is recommended to copy your important recorded data to a disc or other recording media for storage once every 3 months.

JVC

JVC KENWOOD Corporation

3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

