

JVC

LYT2498-001A-M

EN

Live Streaming Camera

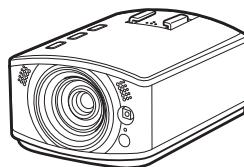
GV-LS1 

ENGLISH
FRANÇAIS
ESPAÑOL
PORTUGUÊS

Basic User Guide

For Future Reference:

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



Model No.

Serial No.

Dear Customers

Thank you for purchasing this JVC product.

Before use, please read the Safety Precautions and Cautions on p.2 and p.4 to ensure use of this product.



Detailed User Guide

This product is provided with "Basic User Guide" (this manual) and "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/>




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
Safety Precautions




CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

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

NOTES:

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

For USA-California Only

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material — special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate

WARNING:

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

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.

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

Do not block the ventilation holes.

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

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

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

The apparatus shall not be exposed to dripping or splashing.

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

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

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

CAUTION!

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

Do not use a tripod on unsteady or unlevel 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:

The mains plug shall remain readily operable.

- Remove the mains plug immediately if the camcorder functions abnormally.

CAUTION:

- Dispose of used batteries according to the instructions.
- Risk of explosion if battery is replaced by an incorrect type.

WARNING

For PLUGGABLE EQUIPMENT, the socket outlet shall be installed near the equipment and shall be easily accessible.

CAUTION:

To maintain compliance with FCC's RF exposure guidelines, use only the supplied antenna.

Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may Cause undesired operation.

IMPORTANT SAFETY INSTRUCTIONS

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



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

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.)

Trademarks

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- Other product and company names included in this instruction manual are trademarks and/or registered trademarks of their respective holders. Marks such as ™ and ® have been omitted in this manual.

When using the AC adapter in areas other than the USA

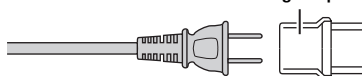
The provided AC adapter features automatic voltage selection in the AC range from 110 V to 240 V.

USING HOUSEHOLD AC PLUG ADAPTER

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

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

Plug Adapter



- Remove the AC adapter from the AC wall outlet when not in use.
- Do not leave dust or metal objects adhered to the AC wall outlet or AC adapter (power/DC plug).
- Be sure to use the supplied AC adapter.
- Do not use the supplied AC adapter with other devices.

For more details, refer to the Detailed User Guide at <http://manual3.jvckenwood.com/>

Cautions

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.

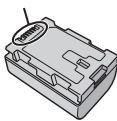
Main Unit

- **For safety, DO NOT**
 - ... open the camcorder's chassis.
 - ... disassemble or modify the unit.
 - ... allow inflammables, water or metallic objects to enter the unit.
 - ... remove the battery pack or disconnect the power supply while the power is on.
 - ... leave the battery pack attached when the camcorder is not in use.
 - ... place naked flame sources, such as lighted candles, on the apparatus.
 - ... expose the apparatus to dripping or splashing.
 - ... leave dust or metal objects adhered to the power plug or an AC wall outlet.
 - ... insert any objects in the camcorder.
 - **Avoid using the unit**
 - ... in places subject to excessive humidity or dust.
 - ... in places subject to soot or steam such as near a cooking stove.
 - ... near appliances generating strong magnetic or electric fields (speakers, broadcasting antennas, etc.).
 - ... in places subject to extremely high (over 40°C or 104°F) or extremely low (under 0°C or 32°F) temperatures.
 - **DO NOT leave the unit**
 - ... in places of over 50°C (122°F).
 - ... 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.
 - ... store the camcorder in a dusty or sandy area.
 - **To prevent the unit from dropping,**
 - 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.

Battery Pack (optional)

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, carry the battery in a plastic bag.
- ... **do not** modify or disassemble.
- ... **do not** expose the battery to temperatures exceeding 60°C (140°F), as this may cause the battery to overheat, explode or catch fire.
- ... use only specified chargers.

- **To prevent damage and prolong service life**

- ... do not subject to unnecessary shock.
- ... charge within the temperature range of 10°C to 35°C (50°F to 95°F). 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 (■).
- ... 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.

ATTENTION:



The product you have purchased is powered by a rechargeable battery that is recyclable. Please call 1-800-8-BATTERY for information on how to recycle this battery.
(USA and Canada only)

Declaration of Conformity

Model Number : GV-LS1

Trade Name : JVC

Responsible party : JVC AMERICAS CORP.

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

Telephone Number : 973-317-5000

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

Changes or modifications not approved by JVC could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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

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

About drip-proof performance

Read the following and use the unit properly.

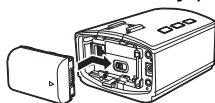
Malfunctions caused by incorrect usage are not covered by the warranty.

You can use the unit in the rain without trouble.

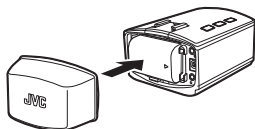
To use the unit with drip-proof performance, you need the battery (sold separately).

Before use

1 Attach the battery (sold separately).



2 Attach the rear cover firmly.



Cautions

- Do not remove the rear cover while wet.
- Do not use the unit in water; otherwise a malfunction may occur.
- The unit is not water proof. Do not pour water on the unit directly from a faucet, shower, etc.

After use

- Wipe drops of water with a soft cloth and dry the unit in well ventilated place avoiding direct sunlight.
- Turn the unit upside down to drain water around the microphone.
- Wipe off the stains after removing any sand, etc. so as not to scratch the unit.
- Do not wipe the unit with chemicals, soaps, neutral detergents, alcohol, etc.

- When the unit is exposed to salt water, wash the unit gently with a soft stream of water.

Cautions

- Do not use a hot dryer to dry the unit; otherwise, the drip-proof performance will be decreased.
- Do not leave the unit in extremely low temperature or in high temperature over 40 °C (in direct sunlight, inside a car on a hot day, near a heater, etc.); otherwise, the drip-proof performance will be decreased.
- Do not remove the rear cover or connect cables while wet.
- Note that JVC KENWOOD Corporation bears no responsibility for any loss of data by inundation.
- We recommend changing the drip-proof parts once a year to maintain performance. Contact your nearest dealer (charge basis).

6 For more details, refer to the Detailed User Guide at <http://manual3.jvckenwood.com/>

Verifying the Accessories

AC Adapter *1
QAL1466-001



AC cord



LAN Cable



Software CD-ROM



Rear Cover



**Basic User Guide
(This manual)**



*1 Use the supplied AC cord when connecting the AC adapter.

● Purchase an SD card separately.

Operation confirmed with the following SD cards.

Manufacturer	Panasonic TOSHIBA SanDisk
Video	Class 4 or higher compatible SD card (2 GB) Class 4 or higher compatible SDHC card (4 GB to 32 GB) Class 4 or higher compatible SDXC card (48 GB to 64 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.
- Not all SD card operations are guaranteed. Some operations may not be performed due to specification changes, etc.
- Do not touch the terminals of the SD card. Doing so may cause data loss.

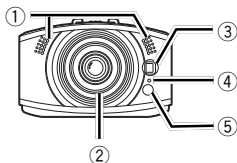
● When using the AC adapter overseas, use a commercially available conversion plug appropriate for the country or region.

For more details, refer to the Detailed User Guide at <http://manual3.jvckenwood.com/>

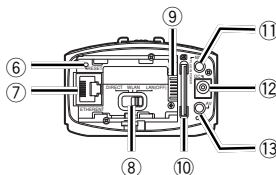
Component Names and Functions

● Camera

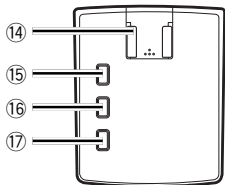
<Front>



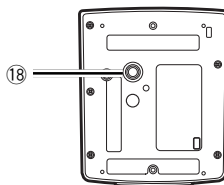
<Back>



<Top>



<Bottom>



- ① **Internal mic:** Transmits/Records sounds coming through this mic when no external mic is connected.
- ② **Lens:** Do not touch it directly.
- ③ **LED light:** Works as a light in dark places.
- ④ **Information lamp:** Can be lit up to indicate the recording status, etc.
- ⑤ **Camera sensor:** Adjusts the white balance automatically.
- ⑥ **[RESET] button:** Resets the network settings. Press and hold this button with the tip of a paper clip or the like when the AC adapter is connected.
- ⑦ **LAN terminal:** Connects to a computer or router via a LAN cable.
- ⑧ **Network mode switch:** Switches the network mode.
- ⑨ **Battery terminal:** Connect a separately purchased battery pack. (BN-VG139U)

For more details, refer to the "Detailed

User Guide."

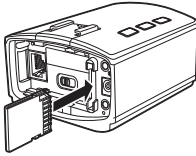
- ⑩ **SD card slot:** For compatible cards, see p.7.
- ⑪ **[MIC] terminal:** Connect an external mic.
- ⑫ **[DC] connector:** Connect the supplied AC adapter.
- ⑬ **[AV] connector:** Connect a separately purchased AV cord.
- ⑭ **Hot shoe:** Mount camera accessories or the like.
- ⑮ **Shooting button:** Starts recording. To stop, press this button again.
- ⑯ **[WPS] button:** Press and hold to connect wirelessly (Wi-Fi) in WPS mode for the first time.
- ⑰ **[POWER] button:** Press and hold to power on. To power off, press and hold this button again.
- ⑱ **Tripod mounting hole:** Mount a separately purchased tripod.

Attaching/Removing Devices

Inserting/Removing an SD card

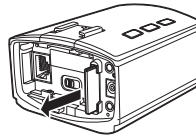
Insert a commercially available SD card before recording.

● Inserting



Insert the card straight with the terminal facing to the right.

● Removing



Push the card in once, and pull it out straight.

- Turn off the power before inserting/removing the SD card.
- Make sure that the write protect switch of the SD card is not set to LOCK (writing protected).
- Some cards need to be formatted with this unit. For details, refer to the "Detailed User Guide".

Preparation before Use

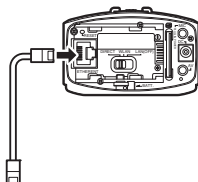
Connecting the Camera to Your Computer

To set up the camera, first connect it to your computer.

Required operating environment

Browser: Internet Explorer 9 or later

- 1 **Attach the supplied LAN cable to the camera.**



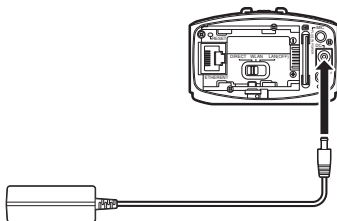
- 2 **Connect the camera to your computer via the LAN cable.**
- 3 **Set the network mode switch to [LAN-OFF].**



- If the network mode switch is set to [DIRECT] or [WLAN], the LAN terminal cannot be used.
- While the power is on, switching the network mode switch does not change the setting.
- Do not use cables (AV cable, microphone, etc.) with L-shaped connectors.
- For other ways of connecting, see "Detailed User Guide".

Connecting the AC Adapter

Connect the supplied AC adapter to the DC connector.



Configuring the Camera Settings Appropriate for Your Needs

Specify the video format, zoom, etc. appropriate for your needs. Configure the settings on a browser.

Logging in as an administrator

- 1 **If the power is not turned on, press and hold the [POWER] button to power on.**
The [POWER] button starts blinking.
Wait until it stops blinking and stays lit.
- 2 **Set the Network Setting of the computer as follows.**
IP Address: 192.168.1.2 to 192.168.1.254 (except 192.168.1.100) (example) 192.168.1.23
Subnet mask: 255.255.255.0

Make a note of the current network settings before operation for resetting the network setting.
- 3 **Start Internet Explorer, and enter "http://192.168.1.100:8000" in the address bar.**
- 4 **Enter the user name and password of the administrator.**
Initial setting: USERNAME "root",
PASSWORD "password".

If login is successful, the setup screen appears.

Changing the settings

Select "NETWORK", "CAMERA/PAN TILTER", or "MANAGE" in the left window of the screen to change the settings. Click "+" on the left of each item to show the sub categories.

- **"NETWORK"**
 - "WIRED NETWORK"
For establishing a wired connection.
 - "WIRELESS NETWORK"
For connecting wirelessly.
 - "MONITORING SETTINGS"
For connecting via a network.
 - "STREAM SETTINGS"
Format for transmitting/recording.
- **"CAMERA/PAN TILTER"**
 - "CAMERA SETTINGS"
Camera settings such as zoom.
 - "PAN TILTER SETTINGS"
Pantilter settings. Pan/Tilt is available when zooming is activated.
- **"MANAGE"**
 - "COMMON SETTINGS"
Change the password of the administrator, set the clock, etc.
 - "MEDIA MANAGEMENT"
Format the SD card.
 - "TURN OFF CAMERA"
Turn off the power of the camera.
 - * The power cannot be turned on via the browser.

For details, refer to the "Detailed User Guide".

Using the Camera

Viewing on a Browser

Access "http://192.168.1.100:80" by Internet Explorer.

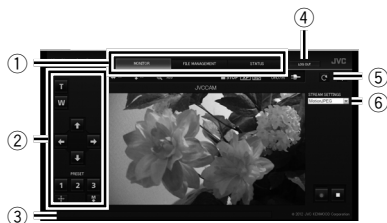
If you log in using the user name and password of the administrator or those set in "MONITORING SETTINGS" (p.11), you can watch a video on a browser.

- To watch a video via a network, the "MONITORING SETTINGS" (p.11) are required. Entering the user name and password of our DDNS service allows you quick access.

To acquire a DDNS service account, visit our website

<https://dd3.jvckenwood.com/user/>

<Example of browser>



- ① **Tab:** Switch the display. (Monitor: Camera image and control panel, File: Images on the SD card, Status: Message history)
- ② **Control panel:** Controls the camera/panttiler.
- ③ **Message Bar:** Displays an error message, etc.
- ④ **Logout:** Click this to log out.
- ⑤ **Status:** Indicates the current status such as the remaining battery power.
- ⑥ **Stream settings:** Displays the stream settings.

Installing the Supplied Software

"JVC CAM Control" allows you to control multiple cameras, change the angle, etc.

- 1 **Insert the supplied software CD-ROM into the CD/DVD drive of your computer.**
- 2 **Follow the on-screen instructions to finish the installation.**

Streaming Images

Installing the supplied "Camera Driver" allows you to use this unit as a web camera. Use the distribution software such as "Ustream Producer" (<http://www.ustream.tv/producer>) or website for the web camera to stream the images. "Camera Driver" will be installed along with "JVC CAM Control."

Installing the Application for a Mobile Terminal

You can pinch, drag, etc. on the touch panel of a smartphone/tablet computer to operate the camera intuitively. In addition, the camera can be panned/tilted by moving the tablet computer.

1 Download the software appropriate for your environment.

- Smartphone (Android OS 2.3 or later)
Download "JVC CAM Control Single" from Google Play Store.
- Android tablet (Android OS 2.3 or later, Screen size: 7 inches or more, Resolution: 1024 x 600 or more)
Download "JVC CAM Control Multi" from Google Play Store.
- iPhone/iPod/iPad touch (iOS 5.1.1 or later)
Download "JVC CAM Control" from App Store.

2 Follow the on-screen instructions to finish the installation.

Specifications

Camera		
Power supply	Using the AC adapter: DC 5 V, Using a battery pack: DC 3.6 V	
Power consumption	4.8 W	
Dimensions (mm)	73 x 48 x 89 (2 7/8" x 1 15/16" x 3 9/16") (W x H x D)	
Mass	Approx. 229 g (0.51 lbs) (excluding the battery)	
Operating environment	Allowable operating temperature: 0°C, to 40°C, (32°F, to 104°F), Allowable storage temperature: - 20°C, to 50°C, (- 4°F, to 122°F), Allowable relative humidity: 35 % to 80 %	
Image element	1/2.3: 12.40 mil. pixels (BSI CMOS)	
Image range	5.40 mil. to 2.07 mil. pixels (Image stabilization: OFF)	
Lends	F1.2 to F2.8 f = 3.76 (3/16") mm to 37.6 mm (1 1/2") Equivalent to 35 mm (1 7/16") camera: 29.5 mm (1 3/16") to 476 mm (18 3/4")	
Zoom	Digital zoom: up to 20x	
Video recording method	AVCHD standard certified, Video: AVC/H.264, Audio: Dolby Digital (2ch)	
Media	SD/SDHC/SDXC cards (not supplied)	
Network standard	Wired: 10BASE-T/100BASE-TX, Wireless: IEEE 802.11b/g/n 2.4GHz band only	
Battery for the clock	Secondary battery	
Stream output format		
	Stream 1	Stream 2
Format 1	Video	JPEG (640x360)
	Audio	LPCM 16 kHz 16 bit 1 ch
Format 2	System	None
	Video	—
	Audio	H.264 Main Profile (720x480)
Format 3	Video	JPEG (640x360)
	Audio	LPCM 16 kHz 16 bit 1 ch
	System	—
Format 3	Video	MPEG-2 TS
	Audio	H.264 High Profile (1920x1080)
Format 3	Video	JPEG (640x360)
	Audio	LPCM 16 kHz 16 bit 1 ch
AC adapter (QAL1446-001)		
Power supply	AC 100 V to 240 V, 50 Hz/60 Hz	
Power consumption	DC 5 V, 2 A	
Allowable operating temperature	0 °C to 40 °C (32 °F to 104 °F) (10 °C to 35 °C (50 °F to 95 °F) at battery charge)	
Dimensions (mm)	44 x 29 x 96 (1 3/4" x 1 3/16" x 3 13/16") (W x H x D, excluding AC cord and AC plug)	
Mass	Approx. 175 g (0.39 lbs)	
● Specifications and appearance are subject to change without notice due to product improvements.		



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