

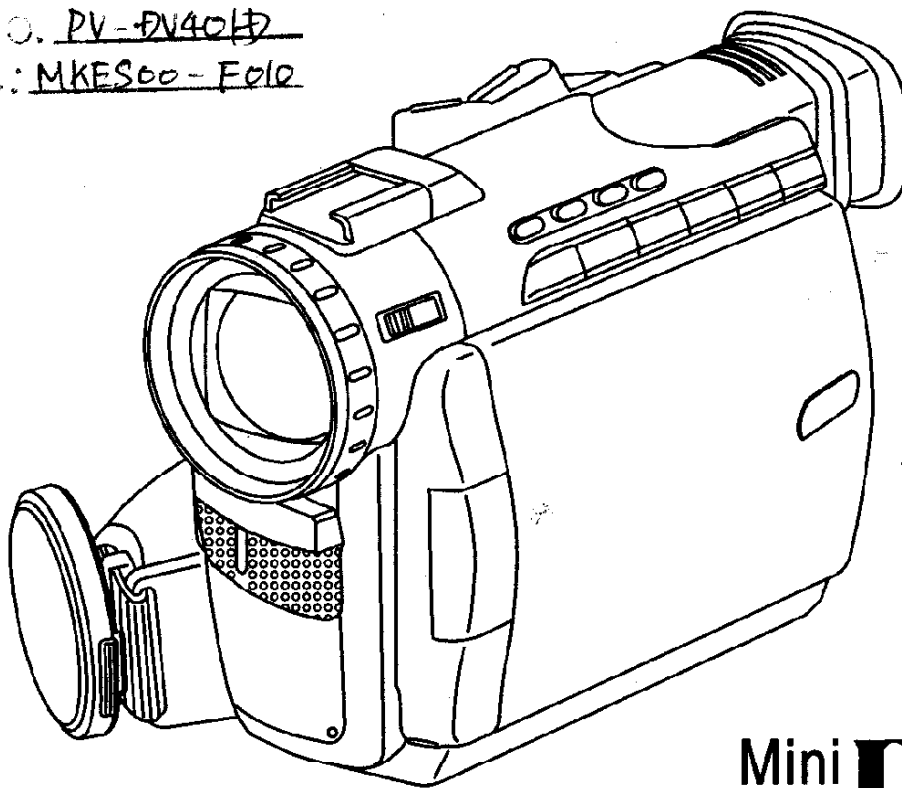
— TENTATIVE —
Digital Palmcorder®
PalmSight™

Panasonic®

Digital Video Camcorder
Operating Instructions

EXHIBIT # 5 Model No. **PV-DV401**

FIG. NO. _____
FCC ID ACI927136K
MODEL NO. PV-DV401H
OUR REF.: MKES00-F010



Mini **DV**



Before attempting to connect, operate or adjust this product, please read these instructions thoroughly.

Spanish Quick Use Guide is included.

Guía para rápida consulta en español está incluida.

For assistance, call 1-800-211-PANA(7262)

LSQTxxxxA

Things You Should Know

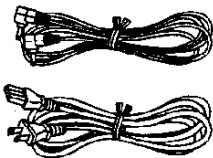
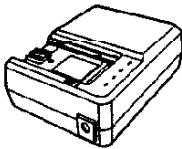
Thank you for choosing Panasonic!

You have purchased one of the most sophisticated and reliable products on the market today. Used properly, we're sure it will bring you and your family years of enjoyment. Please take time to fill in the information below. The serial number is on the tag located on the underside of your Palmcorder. Be sure to **retain this manual** as your convenient Palmcorder information source.

Date of Purchase	_____
Dealer Purchased From	_____
Dealer Address	_____
Dealer Phone No.	_____
Model No.	_____
Serial No.	_____

Unpack your Camcorder

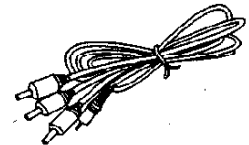
1 pc. AC Adaptor
(PV-DAC10)
with AC Cable and DC
Cable



1 pc. Battery Pack
(PV-DBP8 or
PV-DBP8A)



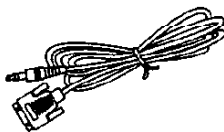
1 pc. A/V Cable
(LSJA0280)



1 pc. Lens Cap
(LSYF0395)



1 pc. PC Connection
Cable for Windows
(Serial Cable/)



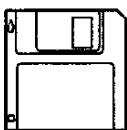
1 pc. MultiMediaCard
(LSFT0198)



1 pc. Shoulder
Strap (LSFC0013)



1 pc. PHOTOVU
LINK DRIVER &
CARD LINK DRIVER
(LSFT0196)



1 pc. USB Cable
(LSJA0265-1)



Microsoft and Windows are registered trademarks of Microsoft in the United States and other countries.




Things You Should Know

Safety Precautions

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

Your Mini DV Palmcorder is designed to record and play back in Standard Play (SP) mode and Long (LP) mode.

It is recommended that only cassette tapes that have been tested and inspected for use in VCR machines with the Mini DV mark be used.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN		This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.
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		This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

The above markings are located on the appliance bottom cover.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment.

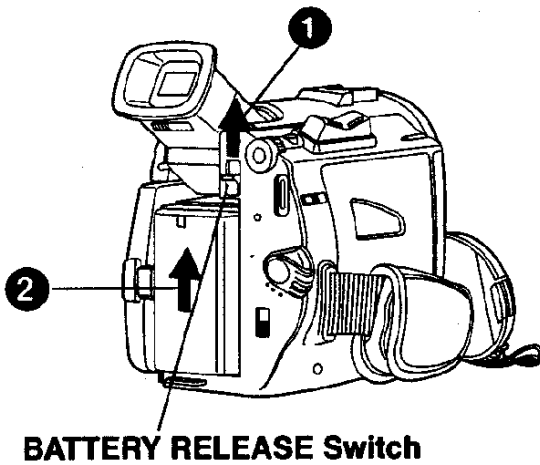
If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

If necessary, consult the dealer or an experienced radio/TV technician for help. You may find the booklet, 'Something About Interference' available from FCC local regional offices helpful.

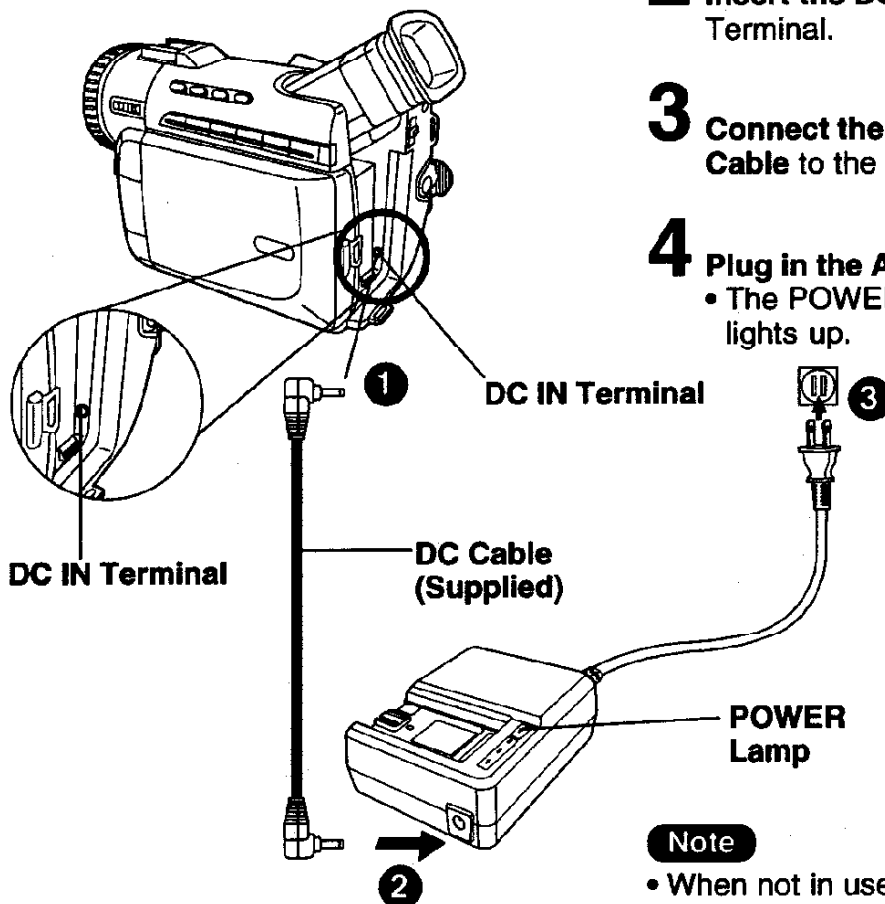
FCC Warning: To assure continued FCC compliance, use only the provided shielded interface cable when connecting digital video camera to computer in accordance with instruction herein. Also, any changes or modifications to this equipment could void the user's authority to operate.

Supplying Power

AC Adaptor



- 1 Slide the Battery upward while sliding the **BATTERY RELEASE** to **remove the Battery** (page 12).



- 2 Insert the **DC Cable** into the **DC IN Terminal**.

- 3 Connect the other end of the **DC Cable** to the **AC Adaptor** as shown.

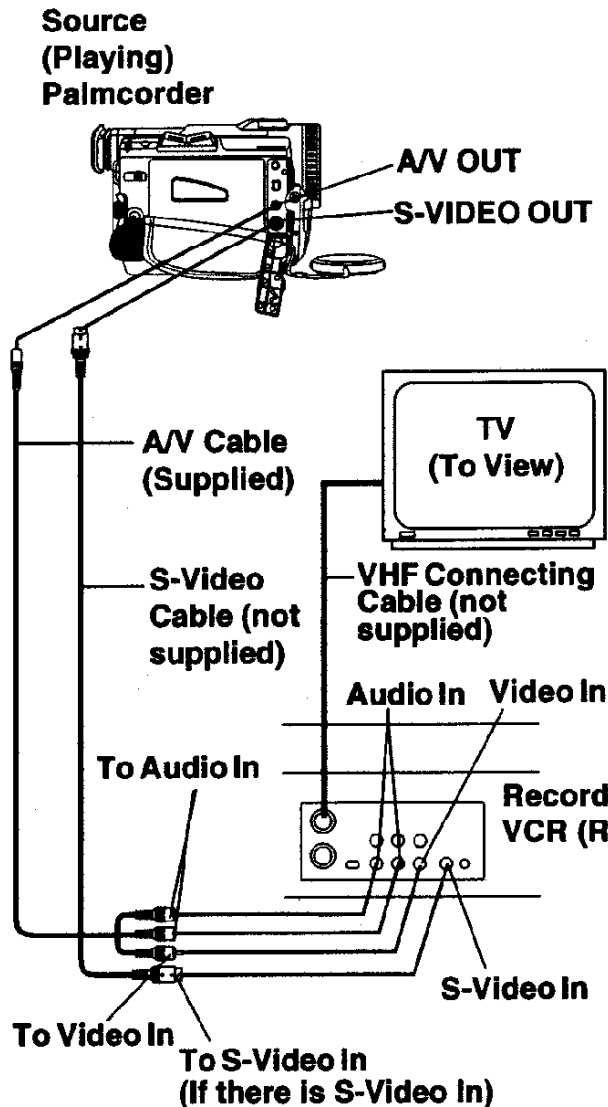
- 4 Plug in the **AC Adaptor**.
 - The **POWER Lamp** of the **AC Adaptor** lights up.

Note

- When not in use, unplug the **AC Adaptor** from the **AC outlet**. (**AC Adaptor** consumes **1W** of electric power when plugged into an **AC outlet** even when not in use.)

Special Features

Copying your Tapes to S-VHS or VHS Cassette



Monitor with your TV

- Turn the TV ON and select its VCR channel (either CH3 or CH4).
- Set the VCR/TV Selector on the recording VCR to VCR.

Before you begin...

- Connect both Palmcorder and VCR to their power sources.
- Connect the Palmcorder to a VCR as illustrated below.
- Turn ON both units.
- Set the recording VCR's Input Signal Selector to LINE.
- Set the Palmcorder POWER Switch to VCR.

1 Insert a pre-recorded tape into the source (playing) Palmcorder and a blank tape with record tab in place into the target VCR (Recorder).

2 Press **PLAY** on the Palmcorder. When the tape reaches the point you want to start dubbing, press **PAUSE**.

3 Press **REC** or simultaneously **REC** and **PLAY** (depends on VCR) and then pause the recorder.



VCR Buttons

4 Simultaneously, press **PAUSE** on both units to begin the copying.

5 Press **STOP** on both units when copying is completed.

Note

- For technical reasons, dubbing a tape may reduce its quality.
- Press **DISPLAY** on the Palmcorder remote control (optional, page 72) to eliminate EVF/LCD Monitor indications to be recorded on the tape.
- If the Time Code is displayed in the EVF or LCD monitor, this display cannot be reset.

CAUTION:

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

Special Features

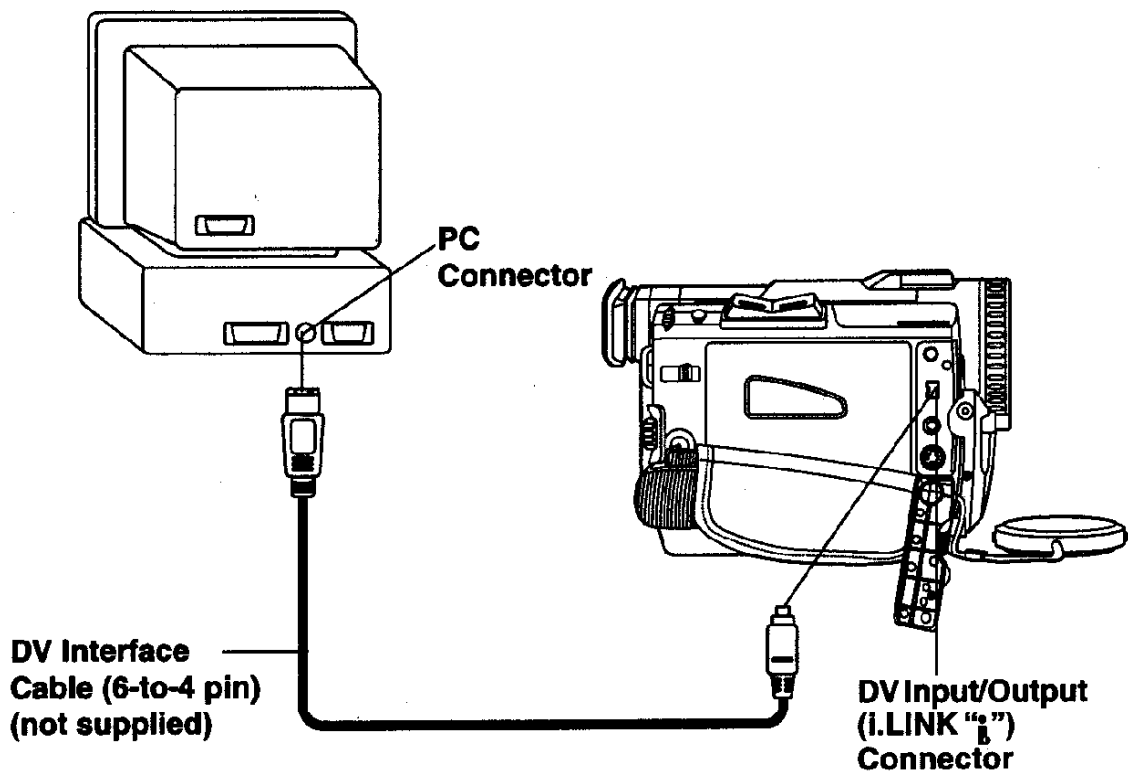
PC Connection with DV Interface Cable (IEEE 1394)

A live image can be transferred directly to your PC (Personal Computer) via a DV Interface Cable (not supplied) using products and software from Digital Origin (formerly Radius) or Canopus.

Using these products allows you to capture live images onto your PC, edit the captured image, etc.

Note:

- For more detailed information, please their web site at:
<http://www.digitalorigin.com/DVP>
<http://www.justedit.com>
- For assistance on Digital Origin products, call 1-800-572-3487
For assistance on Canopus products, call 1-888-868-2533



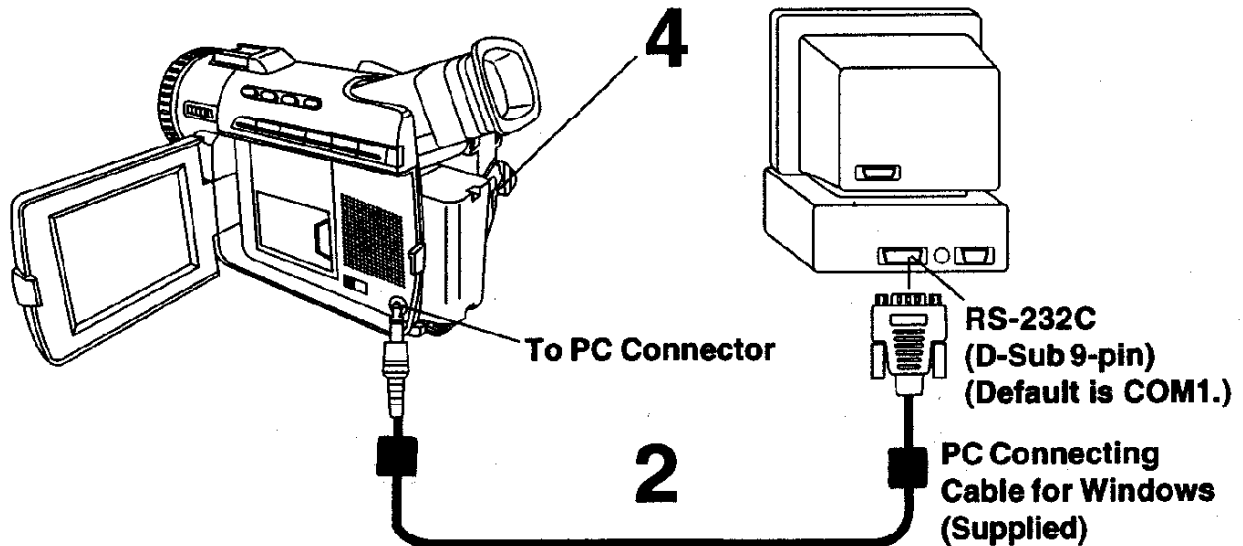
PC Connection (Serial)

PHOTOVU Link & CARD LINK Driver

An image stored in the DV Tape can be transferred to your PC (Personal Computer).

System Requirements for PHOTOVU LINK & CARD LINK Driver

- IBM PC/AT or compatible.
- Intel® Pentium® Processor
- Microsoft Windows® 95 or Windows® 98
- RAM: 16 MB or more
- 2 MB minimum available hard disk space.
- 256 color monitor (full color recommended).
- 3.5 inch 1.44 MB floppy disk drive (for installation).
- RS-232C serial port (D-Sub 9-pin). An adaptor (D-Sub 9-pin male to a D-Sub female) is required for a D-Sub 25-pin.
- Mouse or other pointing device.



Connection

- 1** Turn off your PC.
- 2** Connect the Digital Video Camcorder to your PC (Windows) using the RS-232C PC connecting cable (supplied).
 - Before connecting the Palmcorder to the PC, make sure the PC power is off to insure that images are transferred properly.
- 3** Turn on your PC.
- 4** Set the Palmcorder POWER to VCR.

Note

- For extended periods of use, it is recommended to use the AC Adaptor as a power source.
- Refer to PC or Windows manual to identify which COM port to be used for connection.

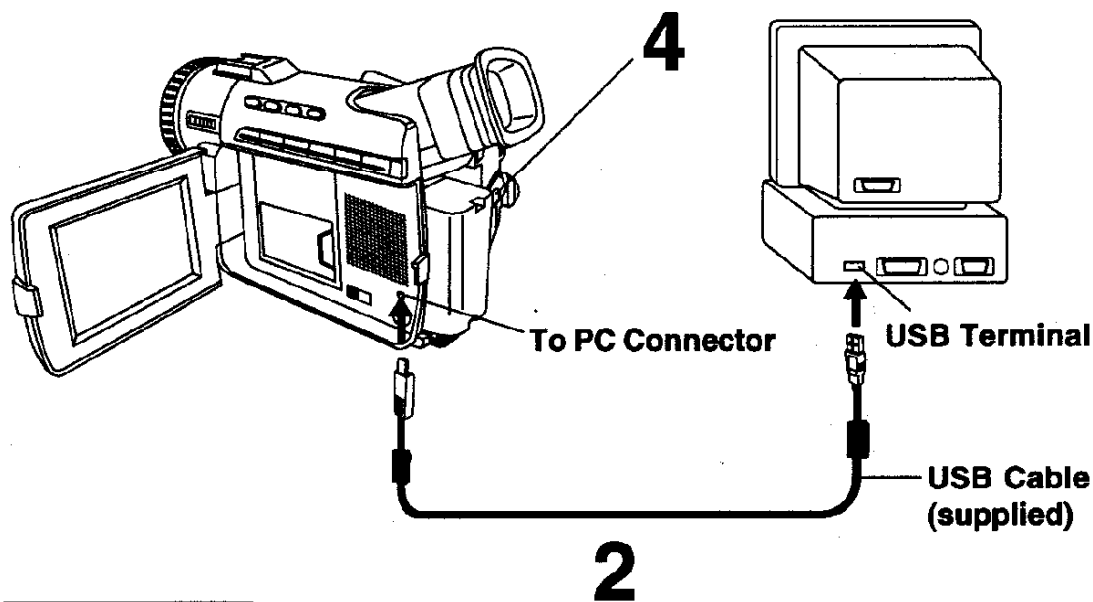
PC Connection (USB)

PHOTOVU Link & CARD LINK Driver

An image stored in the DV Tape can be transferred to your PC (Personal Computer).

System Requirements for PHOTOVU LINK & CARD LINK Driver

- IBM PC/AT or compatible.
- Intel® Pentium® Processor
- Microsoft Windows® 95 or Windows® 98
- RAM: 16 MB or more
- 2 MB minimum available hard disk space.
- 256 color monitor (full color recommended).
- 3.5 inch 1.44 MB floppy disk drive (for installation).
- USB Port
- Mouse or other pointing device.



Connection

- 1** Turn off your PC.
- 2** Connect the Digital Video Camcorder to your PC (Windows) using the USB Cable (supplied).
 - Before connecting the Palmcorder to the PC, make sure the PC power is off to insure that images are transferred properly.
- 3** Turn on your PC.
- 4** Set the Palmcorder POWER to VCR.

Note

- For extended periods of use, it is recommended to use the AC Adaptor as a power source.
- Refer to PC or Windows manual to identify which COM port to be used for connection.

Specifications

Power Source:	Digital Video Camera: 7.2 V DC (Battery) 7.8 V DC (AC Adaptor) AC Adaptor: 110/120/220/240 V AC, 50/60 Hz Battery: Lithium-Ion Type DC 7.2 V
Power Consumption:	Digital Video Camera: 7.2 V DC 6.5 W (Max. 9.5 W) AC Adaptor: 18 W 1 W (when not in use.)
Video Signal:	EIA Standard (525 lines, 60 fields) NTSC color signal
Video Recording System:	2 rotary heads. helical scanning system.
Audio:	12 bit (32kHz) 4 tracks 16 bit (48kHz) 2 tracks
Pick-Up System and Device:	One integral color filter Charge Coupled Device (CCD)
Lens:	18:1 zoom lens, F1:1.6 with auto iris control Focal length: 3.9 mm - 70.2 mm Power zoom function Lens filter diameter: 49 mm
Viewfinder:	0.44 inch (11.2 mm) Liquid Crystal Electronic Viewfinder
LCD Monitor:	3.0 inch (76.2 mm) Liquid Crystal Display
Minimum Illumination Required:	5 lx (F1:1.6) 0.5 footcandles 0 lx (IR Filter ON)
Operating Temperature:	32 °F~104 °F (0 °C~40 °C)
Operating Humidity:	10 %~75 %
Weight:	Digital Video Camera: 1.5 lbs. 0.68 kg AC Adaptor: 0.4 lbs. 0.18 kg
Dimensions:	Digital Video Camera: 3-3/8 (W) x 4-1/4 (H) x 6-3/8 (D) inch 85 (W) x 107.5 (H) x 163 (D) mm AC Adaptor: 4 (W) x 1-5/8 (H) x 3-1/8 (D) inch 103 (W) x 40 (H) x 79 (D) mm

Weight and dimensions shown are approximate.
Designs and specifications are subject to change without notice.