

FCC ID: ACJ927127K

MKES99-F020

CONFIRMATION NO: EA95574

Palmcorder®
PalmSight™

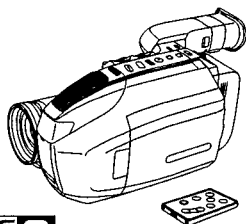
Panasonic®

Camcorder
Operating Instructions

MODEL **PV-L850**

-TENTATIVE-

EXHIBIT # 5
FIG NO.
FCC ID: ACJ927127K
MODEL NO. PV-L850D
OUR REF : MKES99-F020



VHSC

Please read these instructions carefully
before attempting to operate this product.
Please save this manual.

**Guía para rápida consulta en español está
incluida.**

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

VQTW0745A

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, it will bring you years of enjoyment. Please take time to fill in the information at the right. The serial number is on the tag located on the underside of your Camcorder. Be sure to **retain this manual** as your convenient Camcorder information source.

Date of Purchase

Dealer Purchased From

Dealer Address

Dealer Phone No.

Model No.

Serial No.

Unpack your Camcorder

These accessories are provided in order to set up or use your Camcorder.

1 pc. AC Adaptor (PV-A18)
with DC Power Cable
(page 14)



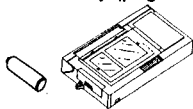
1 pc. Battery Pack (PV-BP18)
(pages 12, 13)



1 pc. Audio/Video Cable
(VJAW0027/VJAW0032/
VJAW0039) (pages 30, 32)



1 pc. VHS PlayPak
(PV-P1/VYMW0009) and
one "AA" battery (page 31)



1 pc. Shoulder Strap
(VYCW0225) (page 16)



1 pc. CR2025 Clock Battery
(VSBW0004)
(installed in Camcorder)
(page 71)



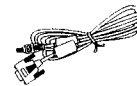
1 pc. Driver Software Floppy
Disk for Windows 95/98
(VFTW0013) (page 59)



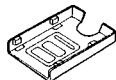
1 pc. CompactFlash Card
[8MB] (LSFA0005A)
(page 48)



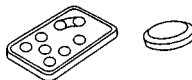
1 pc. PC Connection cable
(RS232C-3P)
(LSJA0185/LSJA0190)
(page 58)



1 pc. Remote Control Holder
(VGQ6893) (pages 16, 27)



1 pc. 8-Function Remote
(VSQW0038) with one
CR2025 Battery. (page 27)



Remote has been loaded with
battery. (page 71)

CompactFlash Card is a trademark of SanDisk Corporation.
Microsoft, Windows, and Windows 95/98 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 Compact VHS Camcorder is designed to record and play back in Standard Play (SP) and Super Long Play (SLP) modes. You can also play a Compact VHS Camcorder recording on your VHS VCR using the VHS PlayPak supplied.

This Camcorder is equipped with the HQ System to provide excellent video pictures, and is compatible with standard VHS equipment.

It is recommended that only cassette tapes that have been tested and inspected for use in VCR machines with the **VHS** and/or **VHS** 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.

FCC Warning: To assure continued FCC compliance, the user must use only provided shielded interfacing cable with ferrite cores when connecting to computer. Also, any unauthorized changes or modifications to this equipment would void the users authority to operate.

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.

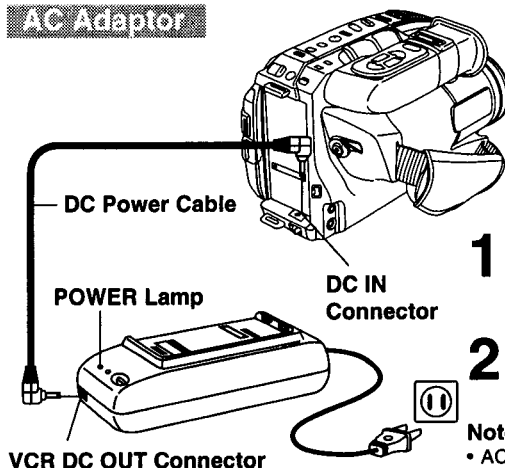
Note: This equipment has been tested and found to comply with the limits for a Class B digital device and a RF Lighting device, pursuant to part 15 and Part 18 of the FCC Rules.

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.

Supplying Power

AC Adaptor



- 1** Connect **AC Adaptor VCR DC OUT** to **Camcorder DC IN** with supplied DC Power Cable.
- 2** Plug in AC Adaptor. POWER Lamp lights.

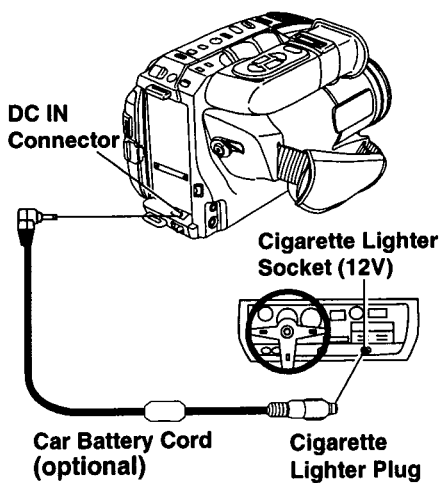
Notes:

- AC Adaptor cannot power Camcorder while charging Battery.
- When not in use, unplug AC Adaptor from AC outlet. (Adaptor uses 1.2 W of electricity while plugged in.)

CAUTION:

This unit will operate on 110/120/220/240V AC. An AC plug adaptor may be required for voltages other than 120V AC. Please contact either a local or foreign electrical parts distributor for assistance in selecting an alternate AC plug. We recommend using the accessory power plug adaptor (VJSS0070) in an area which has special AC outlets.

Car Battery Cord (Optional)



- 1** Connect PV-C16 Car Battery Cord (optional, page 80) to **Camcorder DC IN**.
- 2**
 - A** Start engine first.
 - B** Plug Car Battery Cord into Cigarette lighter socket.

- If Car Battery cord fuse needs replacing, use exact current rating (in amps).

Notes:

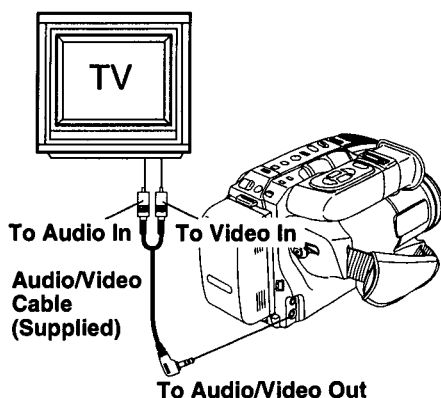
- This cord only works in vehicles equipped with **DC 12V (negative ground)** battery. Check with your car/truck dealer. Use only specified car battery cord.
- To avoid blowing the car battery cord fuse, do step 2 in the proper order.
- Running vehicles must be well ventilated.
- When not in use, disconnect cigarette lighter plug.

Playing Back Recordings

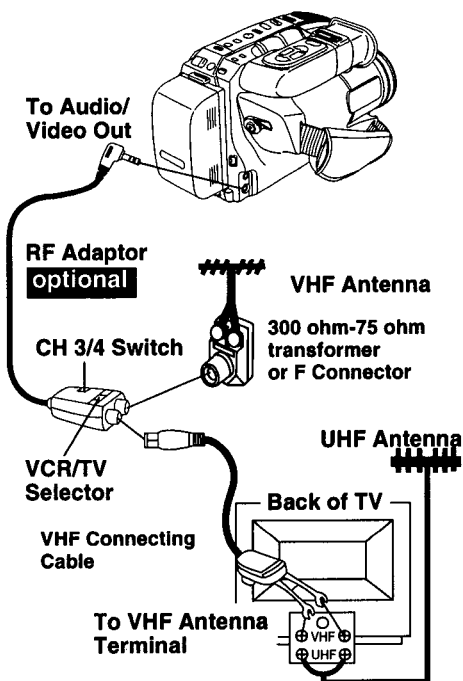
TV Playback or Viewing

Connect Camcorder to a TV to view playback or recordings in progress.

TV with AUDIO/VIDEO IN Jacks.



TV without AUDIO/VIDEO IN Jacks.



Before you begin...

- Connect Camcorder to power source.
- Make all TV-Camcorder connections.

- 1 Set POWER to:
VCR → view playback.
CAMERA → view picture as it is recorded.
- 2 Turn TV ON and set to LINE INPUT.
See TV owner's manual.
- 3 Begin playback or recording.

If TV has no VIDEO/AUDIO IN jacks, connect **PV-RF16 RF Adaptor** (optional, page 80). Tune TV to CH 3 or 4 to match RF Adaptor 3/4 switch. Set Adaptor's TV/VCR switch to VCR for playback.

To watch TV only, turn TV on without AUDIO/VIDEO IN Jacks connected (left).

- a Set Camcorder POWER to OFF.
- b Set RF Adaptor VCR/TV Selector to TV.
- c Turn TV ON and select channel.

CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

PC Connection

Digital PhotoShot Software

A live or captured image can be transferred to your PC (Personal Computer).

System Requirements for Digital PhotoShot

- IBM PC/AT or compatible.
- Intel® Pentium® Processor
- Microsoft Windows®95 or Windows®98.
- RAM: 16 MB or more
- 2 MB of 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.

PC Camcorder Connection

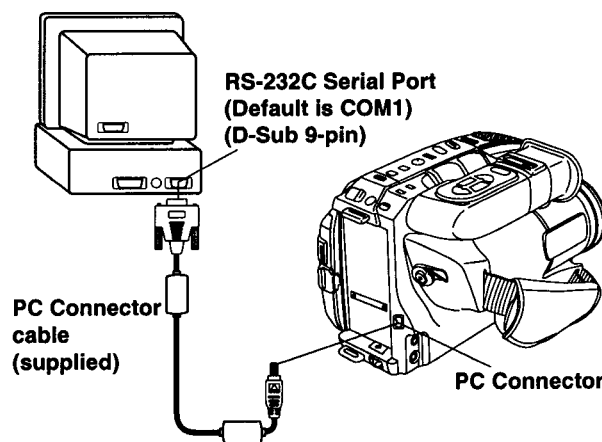
Connect Camcorder PC jack to the serial port on your PC (Personal Computer) using the supplied PC connector cable. Refer to PC or Windows manual to identify which COM port to be used for connection.

Before you begin...

- Turn your PC off.
- Set Camcorder POWER to OFF.

Note:

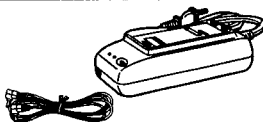
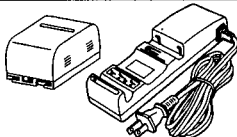
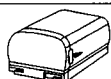
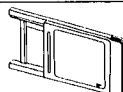
- Be sure to turn PC off before connection for properly image transfer.
- After Camcorder and PC are connected by starting up the software included, video recording is not possible.



Palmcorder Accessory System

For ordering instructions, see the Accessory Order Form page.

- The listed standard battery use times are based on continuous recording using this Palmcorder.

Accessory #	Figure	Description	Price
PV-A17		AC Adaptor with DC Power Cable	\$130.00
HHR-V214A/K		6.0Ah / 6 hr Battery Pack with Universal Battery Charger	\$200.00
P-V215		3.0Ah / 3 hr Battery Pack	\$60.00
PV-BP17/ V214		2.4Ah / 2 hr 30 min Battery Pack	\$50.00
PV-BP18/ V611		1.8Ah / 2 hr Battery Pack	\$45.00
PV-BP15/ V213		1.2Ah / 1 hr 10 min Battery Pack	\$45.00
PV-AA6		"AA" Battery Case	\$20.00
PV-C16		Car Battery Cord	\$70.00
PV-RF16		RF Adaptor	\$40.00
PV-P1		VHS PlayPak	\$35.00
PV-H18		Soft Sided Carrying Case	\$49.00
KXL-D55		PCMCIA Adaptor	\$39.00

Specifications

Power Source:	Compact VHS Camcorder: DC 6 V AC Adaptor: 110/120/220/240 V AC, 50/60 Hz Battery: Nickel-Cadmium Type DC 6 V
Power Consumption:	Compact VHS Camcorder: 6 V DC 8.5 W (Max. 11.5 W) AC Adaptor: 24 W 1.2 W (when not in use.)
Video Signal:	EIA Standard (525 lines, 60 fields) NTSC color signal
Video Recording System:	2 rotary heads plus flying erase head. Helical scanning system
Audio:	1 track
Pick-Up System:	Sequential color difference field reverse system
Pick-Up Device:	One integral color filter Charge Coupled Device (CCD)
Lens:	26:1 zoom lens, F1:1.6 with auto iris control Focal length: 3.8 mm - 98.8 mm (4.5 mm - 117 mm: When recording.) (43.2 mm - 1123.2 mm: When converted to a 35 mm still camera.) 4 speed power zoom function Lens filter diameter: 49 mm
Viewfinder:	0.5 inch (12.7 mm) Electronic Viewfinder
LCD Monitor:	4.0 inch (101.6 mm) Liquid Crystal Display
Memory:	8 MB CompactFlash Card
Image Size:	FINE: 640 × 480 pixels Normal: 320 × 240 pixels
Image Storage:	FINE: Approx. 60 images Normal: Approx. 240 images JPEG
Image Format:	JPEG
Minimum Illumination Required:	2.0 lx (F1:1.6) 0.20 footcandles 10 lx (F1:1.6) 1.0 footcandles (EIA Standard)
Earphone Jack:	M3 Type
External Microphone Jack:	M3 Type
Operating Temperature:	32 °F~104 °F (0 °C~40 °C)
Operating Humidity:	10 %~75 %
Weight:	Compact VHS Camcorder: lbs. kg AC Adaptor: 0.77 lbs. 0.35 kg
Dimensions:	Compact VHS Camcorder: 4-1/4 (W) × 4-5/8 (H) × 7-1/8 (D) inch 107 (W) × 118 (H) × 180 (D) mm AC Adaptor: 2-3/4 (W) × 1-5/8 (H) × 5-3/4 (D) inch 70 (W) × 41 (H) × 145 (D) mm

Weight and dimensions shown are approximate.

Designs and specifications are subject to change without notice.