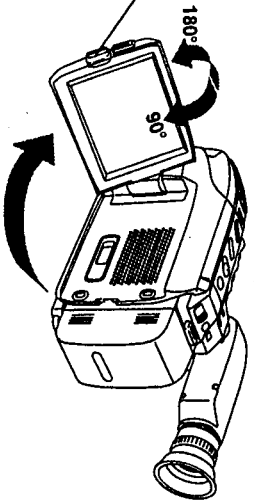


anish Quick Use Guide/Guía Para Uso Rápido

de comenzar...
 e la fuente de alimentación de la videocámara (batería o adaptador de CA)
 e un casete con lengüeta para prevención del grabado.

roduzca usando el monitor LCD
 c el monitor LCD está completamente abierto, el visor se desconecta
 íticamente.

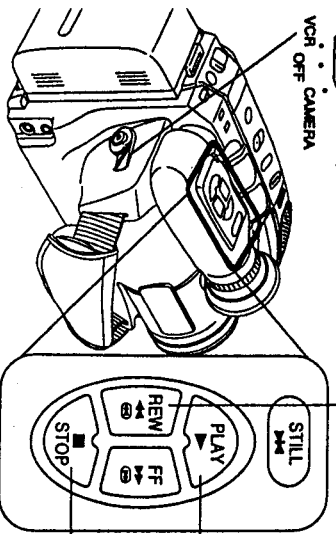


Presione LCD-OPEN
 para abrir el monitor
 LCD. Abralo
 completamente y
 ajuste el ángulo.

Ajuste POWER a VCR.



VCR OFF CAMERA



3 Presione REWIND/SEARCH para
 rebobinar la cinta.

4 Presione PLAY
 para comenzar la
 reproducción.

5 Presione STOP
 para finalizar la
 reproducción.

roduccion con efectos especiales

ocalizar rápidamente una escena específica
 mir el botón de localización (SEARCH).
 ongelar una imagen
 mir el botón de pausa/imagen fija (PAUSE/STILL).
 mir nuevamente el botón cuando se desea continuar reproduciendo.

nic Consumer Electronics
 ny, Division of Matsushita
 : Corporation of America
 asonic Way Secaucus,
 sey 07094

Panasonic Sales Company,
 Division of Matsushita Electric of
 Puerto Rico, Inc. ("PSC")
 Ave 65 de Infantería, Km. 9.5
 San Gabriel Industrial Park
 Carolina, Puerto Rico 00985

n Japan
 7418 1000



PalmCorder®
 WITH PalmSight™

Panasonic

Camcorder

Operating Instructions

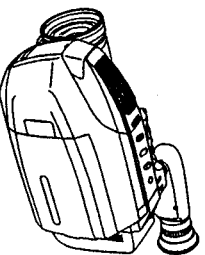
MODEL

PV-L650

— TENTATIVE —

FCC ID: ACJ927126L
 Form 731 Conf No: EA95398

EXHIBIT # 6
 FIG NO. _____
 FCC ID: ACJ927126L
 MODEL NO. PV-L650P
 OUR REF.: MKS99-F017



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-PANNA(7262)

VQTW0741B



11111111 11111111 11111111

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 below. 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-A17)
with DC Power Cable
(page 12)



1 pc. Battery Pack (PV-BP18)
(pages 10, 11)



1 pc. Audio/Video Cable
(VJAW0027/VJAW0032/
VJAW0039) (pages 27, 29)



1 pc. VHS PlayPak
(PV-P1/VVMMW0009) and
one "AA" battery (page 28)



1 pc. Shoulder Strap
(VVCW0225) (page 14)



1 pc. CR2025 Clock Battery
(VSBW0004)
(installed in Camcorder)
(page 4 6)



After this...

2 For assistance, call 1-800-211-PANNA(7262)

Spanish Quick Use Guide/Guia Para Uso Rápido

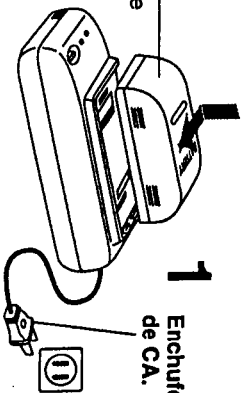
Antes de comenzar...

• Inserte un casete con lengüeta para prevención del grabado.

Cargue la batería

Cargue completamente la batería antes de usarla.

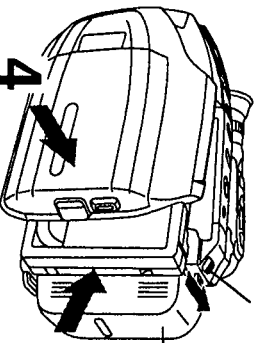
2 Inserte la batería. La lámpara CHARGE se enciende y se apaga al terminar de cargar. Desmonte la batería.



1 Enchufe el adaptador de CA.

Inserte el casete

2 Deslice TAPE EJECT para abrir la compuerta.



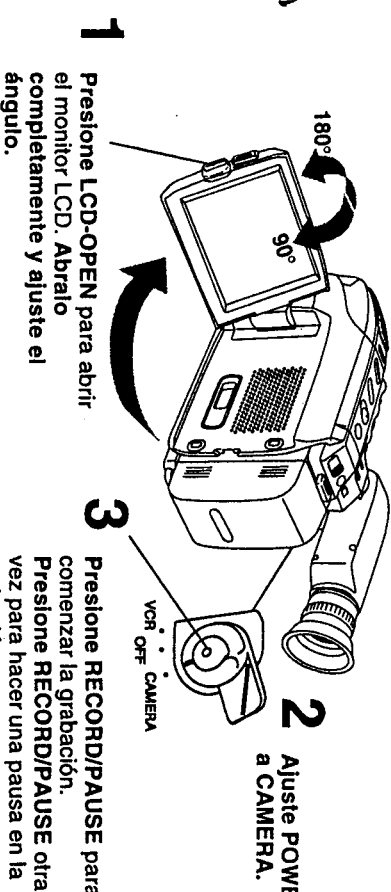
1 Coloque la batería cargada.

3 Inserte el casete.

4 Presione aquí para cerrar la compuerta.

Grabación con la videocámara

Cuando el monitor LCD está completamente abierto, el visor se desconecta automáticamente.



1 Presione LCD-OPEN para abrir el monitor LCD. Abraalo completamente y ajuste el ángulo.

2 Ajuste POWER a CAMERA.

3 Presione RECORD/PAUSE para comenzar la grabación. Presione RECORD/PAUSE otra vez para hacer una pausa en la grabación.

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.


V

CRD/PAUSE Button	8, 20	VHF Connecting Cable	27, 29
Recharging Battery	46	Video Cassettes (tapes)	13
Test for Service Notice	49	Video Head Cleaning	50
IND/SEARCH Button	9, 25, 26	Viewfinder/CD Monitor Indications	42, 43, 44
Capactor	27	Viewing	27
		VOLUME Control	25
		W	
Precautions	3	Warranty	51, 52
Priority Mode	38		
Remote Mode	7	Z	
Slider Strap	14	Zoom	30, 36
Characteristics	25		
Control Buttons	49		
Picture	26		
Stop Button	7, 9, 25		
Lamp	13		
EJECT Switch	8, 13		
SPEED Selector	13, 20		
Control Buttons	39, 40, 41		
Viewing Control	39, 40, 41		
Mounting Hole	28		
	50		
UP/DOWN Button	15, 26		







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.



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.



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.

The above markings are located on the appliance bottom cover.

FCC Warning: Any unauthorized changes or modifications to this equipment would void the user's 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 Part 15 and part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment.

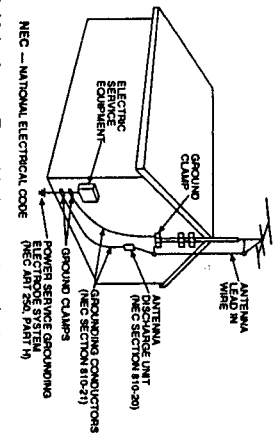
If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

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.

1. Read Instructions — All the safety and operating instructions should be read before the unit is operated.
2. Retain Instructions — The safety and operating instructions should be retained for future reference.
3. Heed Warnings — All warnings on the unit and in the operating instructions should be adhered to.
4. Follow Instructions — All operating and maintenance instructions should be followed.
5. Cleaning — Unplug this video unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for cleaning.
6. Attachments — Do not use attachments not recommended by the video product manufacturer as they may be hazardous.
7. Water and Moisture — Do not use this video unit near water — for example near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories — Do not place this video unit on an unstable cart, stand, tripod, bracket, or table. The cart, stand, tripod, bracket, or table should be used only if recommended by the manufacturer, or sold with the video unit. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
9. Ventilation — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video unit and to protect it from overheating. These openings must not be blocked or covered. Never place the video unit on a bed, sofa, rug, or other similar surface, or near or over a radiator or heat register. This video unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power Sources — This video unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video units intended to be operated from battery power, or other sources, refer to the operating instructions.



11. Grounding or Polarization — This video unit may be equipped with either a polarized 2-wire AC (Alternating Current) line plug (a plug having one blade wider than the other) or 3-wire grounding type plug, a plug having a third (grounding) pin. The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. The 3-wire grounding type plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.
12. Power-Cord Protection — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Paying particular attention to cords of plugs, convenience receptacles, and the point where they exit from the unit.
13. Outdoor Antenna Grounding — If an outside antenna or cable system is connected to the video unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Part 1 of the Canadian Electrical Code, in USA Section 810 of the National Electrical Code, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



14. Lightning — For added protection of this video unit receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video unit due to lightning and power-line surges.

A	AC Adaptor	12	F	Fade	3
	Accessories (Optional)	47		FADE Button	3
	Accessories (Supplied)	2		FAST FORWARD/SEARCH Button	3
	Audio/Video Cable	27, 29		Focus	3
	Audio/Video Out	27, 29	H	Hand Strap	3
	Auto Daylight Saving Time	17		High Speed Shutter	3
B	Backlight	30		HIGH SPEED SHUTTER Button	3
	BACKLIGHT Button	30	L	LCD Monitor	8, 9, 10
	Battery Pack	8, 10, 11		LCD-OPEN Button	8, 9, 10
	BATTERY RELEASE Button	10		Lens Cover	8, 9, 10
	BRIGHT Control	21, 25		Light	10
	Built-in Twin Capsule 2-Way	20		LIGHT Switch	10
	Microphone System	20	M	MANUAL FOCUS Wheel	10
C	Camera Recording	20, 21, 22, 23, 24		MENU Button	15, 16, 17, 18, 22, 24, 33, 34, 35
	Car Battery Cord	12		MENU Mode	39, 41
	Charging Battery	10	P	PLAY Button	25, 26, 27
	Clock Battery	46		Playback	25, 26, 27
	Clock Set	16, 17, 18		PlayPak	25, 26, 27
	Copying Your Tapes	29		Power Lamp	10, 11
D	DC IN	12		Power Supply	7, 8, 9, 10
	DC Power Cable	12		POWER Switch	7, 8, 9, 10
	Digital E.I.S.	37		POWER ZOOM Switch	7, 8, 9, 10
	DIGITAL ZOOM Button	36		Programmed Recording	7, 8, 9, 10
	DISPLAY Button	36			
	15, 16, 17, 18, 22, 24, 26, 33, 34, 35,				
	38, 39, 41, 42				
	Display-off Mode	42			
E	EIS Button	37			
	Electronic Viewfinder	45			

arranty

Product Information, Operating Assistance, Literature Request Dealer Locations, and Customer Service Inquiries please contact:
211-PANA(7262) Monday-Friday 9am-9pm Saturday-Sunday 9am-7am EST.

Site: <http://www.panasonic.com>
 an purchase parts, accessories or locate your
 st servicenter by visiting our Web Site.

Sory Purchases:
332-5368 (Customer Orders Only)
onic Services Company 20421 84th Avenue South, Kent, WA 98032
to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)
MasterCard, Discover Card, American Express, Check)

let Repairs
Centralized Factory Servicenter
 Panasonic Services Company
 1705 N. Randall Road,
 Elgin, IL 60123-7847

Attention: Camcorder Repair
 carefully pack and ship, prepaid and insured, to the Elgin centralized repair Factory
 center. While there will be added handling delays, you may bring your unit to one of the
 19 locations who will then forward the unit to Elgin for repair.
 If you're in Puerto Rico, please ship or carry in to location below ("Service in Puerto Rico").

ty Servicenters Locations	
ORINIA Iella Avenue CA 90630 uque Avenue rancisco 0 herman Way 2 Park, CA 91306 fin Road 2 jo, CA 92123	GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350 ILLINOIS 9060 Golf Road Niles, IL 60714 1703 North Randall Road Elgin, IL 60123 (Pick-up/drop-off only)
IADO 1th Abilene ite D O 80012 2 th 29th Avenue id, FL 33020	MARYLAND 62 Mountain Road Glen Burnie, MD 21061 MASSACHUSETTS 60 Glacier Drive Suite G Westwood, MA 02090
	MICHIGAN 37048 Van Dyke Avenue Sterling Heights, MI 48312 MINNESOTA 7850-12th Avenue South Airport Business Center Bloomington, MN 55425 OHIO 2236 Waycross Road Civic Center Plaza ForestPark, OH 45240
	PENNSYLVANIA 2221 Cabot Blvd. West Suite B Langhorne, PA 19047 HAWAII 99-859 Waiwa Street Aiea, Hawaii 96701 Phone (808) 488-1996 Fax (808) 486-4369
	TENNESSEE 3600 Ezell Road Suite 806 Nashville, TN 37211 TEXAS 7482 Harwin Drive Houston, TX 77036 13615 Welch Road Suite 101 Farmers Branch, TX 75244 WASHINGTON 20425-84th Avenue South Kent, WA 98032

Service in Puerto Rico
 ushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:
 65 de Infantería, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985
 Phone (787) 750-4300 Fax (787) 768-2910

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

Important Safeguards

15. Power Lines — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. Overheating — Do not overheat wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. Objects and Liquids — Never push objects of any kind into this video unit through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind onto the video unit.
18. Servicing — Do not attempt to service this video unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. Damage Requiring Service — Unplug this video unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If any liquid has been spilled onto, or objects have fallen into the video unit.
 - c. If the video unit has been exposed to rain or water.
 - d. If the video unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video unit to its normal operation.
 - e. If the video unit has been dropped or the cabinet has been damaged.
 - f. When the video unit exhibits a distinct change in performance — this indicates a need for service.
20. Replacement Parts — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. Safety Check — Upon completion of any service or repairs to this video unit, ask the service technician to perform safety checks to determine that the video unit is in safe operating order.

Precautions

USE & LOCATION

- **DO NOT AVOID SHOCK HAZARD ...** Your Camcorder and power supply should not be exposed to rain or moisture. Do not connect the power supply or operate your Camcorder if it gets wet. Your Camcorder has been designed for outdoor use, however, it is not designed to sustain direct exposure to water, rain, sleet, snow, sand, dust, or a direct splashing from a pool or even a cup of coffee. This action could permanently damage the internal parts of your Camcorder. Do not attempt to disassemble this unit. There are no user serviceable parts inside. Unplug your Camcorder from the power supply before cleaning.
 - **DO NOT AIM YOUR CAMCORDER AT THE SUN OR OTHER BRIGHT OBJECTS.**
 - **DO NOT LEAVE THE CAMCORDER WITH THE EVF AIMED DIRECTLY AT THE SUN AS THIS MAY CAUSE DAMAGE TO THE INTERNAL PARTS OF THE EVF.**
 - **DO NOT EXPOSE YOUR CAMCORDER TO EXTENDED HIGH TEMPERATURE ...** Such as, in direct sunlight, inside a closed car, next to a heater, etc... This action could permanently damage the internal parts of your Camcorder.
 - **AVOID SUDDEN CHANGES IN TEMPERATURE ...** If the unit is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the unit.
 - **DO NOT LEAVE YOUR CAMCORDER OR THE POWER SUPPLY TURNED ON WHEN NOT IN USE.**
 - **STORAGE OF YOUR CAMCORDER ...** Store and handle your Camcorder in a manner that will not subject it to unnecessary movement (avoid shaking and striking). Your Camcorder contains a sensitive pick-up device which could be damaged by improper handling or storage.
- CARE**
- **TO CLEAN YOUR CAMCORDER ...** Do not use strong or abrasive detergents when cleaning your Camcorder body.
 - **TO PROTECT THE LENS ...** Do not touch the surface of the lens with your hand. Use a commercial camcorder lens solution and lens paper when cleaning the lens. Improper cleaning can scratch the lens coating.
 - **TO PROTECT THE FINISH OF YOUR CAMCORDER ...** Before handling your Camcorder, make sure your hands and face are free from any chemical products, such as suntan lotion, as it may damage the finish.